

CURRICULUM VITAE

Date: October 1, 2020

PERSONAL INFORMATION:

Name: Randy Q. Cron, M.D., Ph.D.
Citizenship: U.S.A.
Social Security Number: xxx-xx-xxxx
Home address: 3401 N. Woodridge Road
Birmingham, AL 35223
Phone: (205) 306-9522
Email: rcron@peds.uab.edu



Lab webpage: <http://www.uab.edu/medicine/immunology/faculty?id=81:cron&catid=39:faculty>
Pediatric Rheumatology Division webpage: <http://www.uab.edu/medicine/peds/rheum>
Children's of Alabama webpage: <https://www.childrensal.org/dr-randy-cron-md-phd-rheumatology>
UAB SOM webpage: <http://apps.medicine.uab.edu/FacultyDirectory/FacultyData.asp?FID=30608>
Clinical Immunology and Rheumatology Division webpage: <https://scholars.uab.edu/display/rcron>

RANK/TITLE:	Professor/Director/Founder	2007
	Division of Pediatric Rheumatology	
	Director/Founder, Pediatric Rheumatology Fellowship Program	2009
Department:	Pediatrics	
Business Address:	Children's of Alabama (CoA) Department of Pediatrics, Division of Rheumatology 1601 4 th Avenue South, CPPN, Suite G10 Birmingham, AL 35233	
Phone:	(205) 638-9438	
Secondary Appointment UAB	Faculty GBS Medical Scientist Training Program affiliation	2019
Secondary Appointment UAB	Senior Scientist Comprehensive Cardiovascular Center (CCVC)	2013
Secondary Appointment Department: Medicine	Professor Division of Clinical Immunology and Rheumatology	2009
Secondary Appointment UAB	Scientist Center for AIDS Research (CFAR)	2008
Secondary Appointment UAB	Faculty Graduate Biomedical Sciences (GBS) Program in Immunology	2008

Secondary Appointment UAB	Faculty Graduate Biomedical Sciences Program in Pathobiology & Molecular Medicine	2008
------------------------------	---	------

HOSPITAL AND OTHER (NON-ACADEMIC) APPOINTMENTS:

July 2013 – present	Founder and Director, “Rheum4yAL” (non-profit charity)
Jan. 2008 – present	Director, Pediatric Rheumatology Infusion Center, CoA
Aug. 2007 – present	Director, Alabama Center for Childhood Arthritis & Rheumatic Disorders
July 2001 – June 2004	Co-Director, Pediatric Rheumatology Fellowship Program, CHOP
Oct. 1999 – July 2007	Assistant Physician, Children’s Hospital of Philadelphia (CHOP)
Dec. 1998 – Oct. 1999	Staff Physician, Children’s Hospital at Stanford

PROFESSIONAL CONSULTANTSHIPS:

Systemic Juvenile Idiopathic Arthritis Advisory Board, Genentech, San Francisco, CA	2011-12
Systemic Juvenile Idiopathic Arthritis Advisor, Swedish Orphan Biovitrum, Chicago, IL	2011, 2013
Systemic Juvenile Idiopathic Arthritis Advisory Board, Novartis, New Orleans, LA	2012-14
Anti-tumor necrosis factor patents, consultant, AbbVie	2015
Use of subcutaneous methotrexate in JIA Advisory Board, medacPHARMA, Dallas, TX	2016
North American Advisory Board for Use of Anakinra in Sepsis, Sobi, Washington, D.C.	2016
Specialist Reviewer (Pediatric Rheumatology), MedStudy Peds Core Curriculum	2016
Targeting Macrophages Advisory Board, UCB, San Diego, CA	2017
Tofacitinib for sJIA Adjudication of MAS Committee Chair, Pfizer	2017-present
Course Director for CME/CE Video on sJIA, grant from Novartis, Birmingham, AL	2018
Strategies for Transitioning One Therapy to Another, consultant, Novartis, Houston, TX	2019
Changing Treatment Landscape for MAS/sHLH Advisory Board, Sobi Atlanta, GA	2019
“The Cytokine Storm Syndrome: What clinicians need to know” WebMD funded by Sobi	2020
“A Tale of Two Storms: COVID-19 and the Cytokine Storm” WebMD funded by Sobi	2020
“Use of Anakinra in the Management of Covid-19 Patients” virtual Advisory Board, Sobi	2020
RIP1 inhibitor clinical trial in COVID-19, consultant, Sironax	2020
“COVID-19 from Cytokine Signature to Cytokine Storm” WebMD funded by Sobi	2020

EDUCATION:

University of California at Riverside	B.S. in Biomedical Sciences (with Honors)	1985
National Institutes of Health	HHMI Pre-doctoral Fellow/Scholar	1987
University of Chicago	Ph.D. in Immunology	1990
University of California at Los Angeles	M.D.	1991

LICENSURE:

California (G 076719), inactive
Washington (MD 00032040), inactive
Pennsylvania (MD 070025L), inactive
Alabama (MD.28205)

BOARD CERTIFICATION:

2005 Antonio J. Reginato Musculoskeletal Ultrasonography Course, Cooper University Medical Center (University of Medicine and Dentistry of New Jersey)
1998, 2005, 2015 Pediatric Rheumatology Board, ABP
1994, 2001 American Board of Pediatrics (ABP)
1991, 2004 Pediatric Advanced Life Support (PALS)

POSTDOCTORAL TRAINING:

1996-99 Howard Hughes Medical Institute (HHMI) Postdoctoral Fellow, Stanford University Medical Center, Stanford, CA
1994-97 Fellow in Pediatric Rheumatology, Children's Hospital & Medical Center, University of Washington, Seattle, WA
1992-94 Resident in Pediatrics, Stanford Children's Hospital, Stanford, CA
1991-92 Intern in Pediatrics, Stanford Children's Hospital, Stanford, CA

ACADEMIC APPOINTMENTS:

Oct. 2009 – present Tenured Professor of Pediatrics and Medicine, UAB School of Medicine
Aug. 2007 – Oct. 2009 Tenured Associate Professor of Pediatrics and Medicine, University of Alabama at Birmingham School of Medicine
Oct. 1999 – July 2007 Assistant Professor of Pediatrics, University of Pennsylvania School of Medicine
Oct. 1999 – July 2007 Assistant Member, Joseph Stokes, Jr. Research Institute, CHOP
Dec. 1998 – Oct. 1999 Clinical Instructor, Department of Pediatrics, Stanford University School of Medicine

AWARDS/HONORS:

UNDERGRADUATE (University of California at Riverside)

1985 Graduated with Honors, B.S. in Biomedical Sciences, University of California at Riverside
1985 Watkins Award (outstanding male graduate), University of California at Riverside
1985 Summer Externship/Scholarship, Riverside Medical Clinic/University of California at Riverside, Biomedical Sciences Department

MEDICAL SCHOOL (UCLA)

1986 Graduate Scholarship, The International Fraternity of Phi Gamma Delta
1986 Research Scholar, Howard Hughes Medical Institute/National Institutes of Health

GRADUATE SCHOOL (University of Chicago)

1988 Lucille P. Markey Charitable Trust recipient, University of Chicago
1988 Dean's Fund recipient, University of Chicago
1991 Outstanding Performance in the Field of Immunology, University of Chicago

FELLOWSHIP (University of Washington)

1996 Postdoctoral Research Fellowship, Howard Hughes Medical Institute

FELLOWSHIP (Stanford University)

- 1997 Travel Award, American College of Rheumatology Research & Education Foundation
- 1997 **Senior Scholar Award, American College of Rheumatology/Merck**
- 1998 Child Health Research Center Scholar, Stanford University Medical Center
- 1999 Arthritis Foundation Investigator Award
- 1999 Elizabeth Glaser Pediatric AIDS Foundation Scholar

FACULTY (University of Pennsylvania)

- 2000 Child Health Research Center Scholar, Children's Hospital of Philadelphia (CHOP)
- 2000 Junior Clinical Investigator Award, General Clinical Research Center, CHOP
- 2000 Doris Duke Charitable Foundation, Clinical Research Scientist, alternate recipient
- 2000 Searle Scholar, representative of the University of Pennsylvania Medical School
- 2000 MAPS-CHRC National Meeting, invited presenter
- 2001 Mary L. Smith Charitable Trust grant recipient
- 2001 **Junior Faculty Exchange Program with EULAR, American College of Rheumatology/Merck**
- 2002 Society for Pediatric Research Young Investigator Travel Award
- 2002 American Association of Immunologists Junior Faculty Travel Award
- 2002 Arthritis National Research Foundation grant recipient
- 2002 Dorough Lupus Foundation grant recipient
- 2002 **Society for Pediatric Research (SPR), elected member**
- 2003 Arthritis Foundation, Travel Award, Arthritis Research Conference
- 2004 Nickolett Family Awards Program for JRA Research grant recipient
- 2004 The Ethel Brown Foerderer Fund for Excellence fellow/grant recipient
- 2005 Nickolett Family Awards Program for JRA Research grant recipient
- 2006 American Association of Immunologists Junior Faculty Travel Award
- 2006 **Keynote Speaker, UMDNJ Department of Medicine Residents Research Day**
- 2006 Kassie McMullen Biglaw Memorial Research Award, Lupus Foundation of America

FACULTY (University of Alabama at Birmingham)

- 2007 Inaugural Holder of Arthritis Foundation, Alabama Chapter Endowed Chair in Pediatric Rheumatology, University of Alabama at Birmingham School of Medicine
- 2007 Invited Lecturer, 52nd Annual Lowe Conference on Rheumatic Diseases, Camp McDowell, AL
- 2008 Invited Lecturer, ACR State-of-the-Art Clinical Symposium, Chicago, IL
- 2008 Established Kennedy Family Endowed Pediatric Rheumatology Fellowship slot (\$1.5M)
- 2009 Invited Lecturer, Annual European Congress of Rheumatology, Copenhagen, Denmark
- 2010 **Ralph V. Platou, MD, Lecturer, Pediatric Grand Rounds, Tulane SOM, New Orleans, LA**
- 2011 Invited Lecturer, Pediatric Rheumatology: An Update for Clinicians, NYU Langone Medical Center, New York, NY
- 2011 Invited Lecturer, EUROtmJOINT, 3rd International Conference of TMJ Arthritis in Children with JIA, Kiel, Germany
- 2011 **Invited Lecturer, Venenum Distinguished Speaker Seminar Series, HUMIGEN, Hamilton, NJ**
- 2011 American College of Rheumatology REF/AMGEN Pediatric Rheumatology Visiting Professor
- 2011 Nominee, Council member of Society for Pediatric Research (SPR)

- 2011 **UAB Health Care Leadership Academy, selected member**
- 2012 UAB Health Care Leadership Academy, elected to advisory board
- 2012 Alabama Society for Rheumatic Diseases, elected as President
- 2012 Senior Host, ACR/EULAR Exchange Program
- 2012 selected by peers as “Super Doctor” (~top 5% of physicians in region) [superdoctors.com]
- 2012 Department of Pediatrics Excellence in Teaching Award
- 2013 Established Kennedy Family Endowed Pediatric Rheumatology Invited Lectureship (\$100K)
- 2013 Rud Polhill/Kaul Pediatric Research Institute (KPRI) grant recipient
- 2013 Invited Lecturer, EuroTMjoint Meeting, Aarhus, Denmark
- 2013 Alabama Society for Rheumatic Diseases, re-elected as President
- 2013 selected as a Top Rheumatologist in Birmingham, AL by Internat. Assoc. of Health Care Profess.
- 2013 Department of Pediatrics Excellence in Teaching Award
- 2013 Invited Lecturer, AAOMS (American Association of Oral and Maxillofacial Surgeons) Annual Meeting, Orlando, FL
- 2013 Invited Lecturer, 10th Annual Lectureship in Oral & Maxillofacial Surgery, UAB
- 2014 American College of Rheumatology RRF/AMGEN Pediatric Rheumatology Visiting Professor
- 2014 Invited Lecturer, EuroTMjoint Meeting, Tampere, Finland
- 2014 Department of Pediatrics Excellence in Medical Education Award
- 2014 Invited Lecturer, 30th Annual Histiocyte Society meeting, Toronto, ON
- 2015 **American Pediatric Society (APS), elected member**
- 2015 Invited Lecturer, 8th Annual Conference of the Rheumatology Nurses Society, Orlando, FL
- 2015 selected as Castle Connolly Top Doctor, *America’s Top Doctors*®
- 2015 selected as Top Doctor by *B-Metro Magazine*®
- 2015 Department of Pediatrics Excellence in Teaching Award
- 2016 Rud Polhill/Kaul Pediatric Research Institute (KPRI) grant recipient
- 2016 APS International Travel Grant Program (ITPF) recipient to attend the European Academy of Paediatric Societies (EAPS) meeting in Geneva, Switzerland
- 2016 selected member, American Board of Pediatrics Content Development Team, Peds. Rheum.
- 2016 selected member, ACR RRF Scientific Advisory Council
- 2016 selected as Top Doctor by *B-Metro Magazine*®
- 2016 Department of Pediatrics Excellence in Teaching Award
- 2016 UAB/HudsonAlpha Center for Genomic Medicine grant recipient
- 2017 Histiocytosis Association, grant recipient
- 2017 **Key Note Lecturer, 5th Annual James and Nancy Cassidy Endowed Lecture in Pediatric Rheumatology, University of Missouri, Columbia, MO**
- 2017 Chair, ACR Pediatric Rheumatology Visiting Professorship program
- 2017 Invited Lecturer, NextGen Meds in SJIA & MAS Conference, Washington, DC
- 2017 Nominee, UAB Department of Pediatrics, Research Achievement Award
- 2017 Department of Pediatrics Excellence in Teaching Award
- 2018 Invited Lecturer, Arizona United Rheumatology Alliance (AURA) annual meeting, Sedona, AZ
- 2018 Invited Lecturer, 6th Annual James and Nancy Cassidy Endowed Lecture in Pediatric Rheumatology, University of Missouri, Columbia, MO
- 2018 Educational Excellence Award, Department of Pediatrics, UAB
- 2018 selected as one of Birmingham’s Top Doctors

- 2019 Invited Lecturer, Arkansas Rheumatology Association (ARA) Annual Scientific Meeting, Little Rock, AR
- 2019 Invited Lecturer, Rheumatology Society of New Mexico (RNSM) Annual Meeting, Albuquerque, NM
- 2019 Guest Lecturer, Visiting Professor, University of Colorado, Denver, CO
- 2019 Top Pediatrician in Birmingham award, Top Doctor
- 2019 Top Rheumatologist in Birmingham award, Top Doctor
- 2019 American College of Rheumatology RRF/AMGEN Pediatric Rheumatology Visiting Professor
- 2019 Excellence in Teaching Award, Department of Pediatrics, UAB
- 2019 **Research Achievement Award, Department of Pediatrics Excellence Awards, UAB**
- 2020 Invited Lecturer, 30th Anniversary of Camp Jambalya Jubilee, Shriners Hospitals for Children, Shreveport, LA
- 2020 selected as Castle Connolly Top Doctor, *America's Top Doctors*®
- 2020 Invited Lecturer, Congress of Clinical Rheumatology EAST, Destin, FL
- 2020 **Letter of Recognition for Contributions to the COVID-19 Pandemic, UAB**

PROFESSIONAL SOCIETIES:

- Alabama Society for the Rheumatic Diseases (2007-present)
 - President (2012-2014)
- American Academy of Pediatrics (1991-present)
 - Rheumatology section (2013-present)
- American Association for the Advancement of Science
- American Association of Immunologists
 - *Journal of Immunology*, Associate Editor (2005-2008)
 - Clinical Immunology Committee (2007-2010)
 - *Journal of Immunology*, Section Editor (2014-2018)
 - “Genetic Dysregulation in Immunodeficiencies and Immune-mediated Disease”, Co-Moderator of Block Symposium, American Association of Immunologists Annual Scientific Meeting (2016)
 - “Genetic Dysregulation in Immunodeficiencies and Immune-mediated Disease”, Co-Moderator of Block Symposium, American Association of Immunologists Annual Scientific Meeting (2018)
- American Board of Pediatrics
 - General Pediatrics Board, question writer (1995-2006)
 - Pediatric Rheumatology Board, question writer (1999-2006)
 - Content Development Team, Pediatric Rheumatology (2016-2018)
- American College of Rheumatology, including Pediatrics subsection
 - ACR/EULAR Exchange group (2001-present)
 - ACR/EULAR Exchange Study Group, Organizer and Moderator, ACR meeting (2005-2007)
 - Senior Host (2012-2013)
 - “Understanding Children with Rheumatic Diseases: Issues in Clinical Care and Ontogeny of the Immune System”, Study Group Co-Organizer, ACR meeting (2002)
 - Young Investigator Subcommittee, Committee on Research (2003-2008)

- “Transitioning from Fellowship to Your First Academic Appointment”, Young Investigators Subcommittee of the Committee on Scientific Research, Organizer and Moderator, ACR meeting (2005)
- Mentoring Award for ACR national meeting, developer (2008)
- “Lymphocyte Activation and Regulation”, Abstract Selection Subcommittee, ACR meeting (2003)
- “Pediatric Rheumatology”, Abstract Selection Subcommittee, ACR meeting (2003)
- “Pediatric Rheumatology: Pathogenesis and Genetics I”, Co-Moderator, ACR meeting (2006)
- *Arthritis and Rheumatism*, Advisory Editor (2007-2010)
- “Pediatric Rheumatology Pathogenesis and Genetics”, Abstract Selection Subcommittee, ACR meeting (2007)
- “Basic Sciences”, Abstract Selection Subcommittee, ACR Keystone Pediatric Rheumatology Symposium (2008)
- “T-Cell Biology and Targets in Autoimmune Disease”, Abstract Selection Subcommittee, ACR meeting (2008)
- “T-Cell Signaling in Autoimmune Disease”, Moderator, ACR meeting (2008)
- Macrophage Activation Syndrome Study Group, Founder, Organizer & Co-Moderator, ACR meeting (2009-present)
- Juvenile Idiopathic Arthritis Treatment Guidelines, Core Expert Panel member (2009-2011)
- Juvenile Arthritis Workgroup (JAW) TMJ Study Group, Founder, Organizer & Co-Moderator, ACR meeting (2010-present)
- Research and Education Foundation (REF) basic science study section member/grant reviewer (2011-2015)
 - Chair, study section C (2013-2015)
- Pediatric Rheumatology “Top 5” list Core Membership Panel (2012-present)
- “Macrophages Gone Wild”, State-of-the-Art symposium, Co-Moderator, ACR Meeting (2014)
- *Arthritis Care & Research*, Editorial board member (2015-2017)
- “Pathogenesis and Genetics of Pediatric Rheumatology”, Abstract Selection Subcommittee, ACR Meeting (2015)
- “Nuts and Bolts of Macrophage Activation Syndrome”, Organizer & Co-Moderator, ACR Meeting (2015)
- Selected member, ACR RRF Scientific Advisory Council (2016-present)
- “Pediatric Rheumatology”, Abstract Selection Subcommittee, ACR meeting (2017)
- Pediatric Rheumatology Visiting Professorship program, Chair (2018-present)
- Speaker, “Pediatric Rheumatology”, ACR Annual Scientific Meeting, Student & Resident Experience, San Diego, CA (2017)
- “Pediatric Rheumatology Genetics and Pathogenesis”, Abstract Selection Subcommittee, ACR meeting (2018)
- “The Biologic Classification of JIA”, Organizer and Co-Moderator, ACR meeting (2018)
- “T2T in JIA - Ultrasound vs. MRI: The Great Debate”, Moderator, ACR meeting (2018)
- “Pediatric Rheumatology Genetics and Pathogenesis”, Co-Moderator, ACR meeting (2018)
- “Pediatric Rheumatology – Basic Science”, Abstract Selection Subcommittee, American College of Rheumatology National Scientific Meeting, Atlanta, GA (2019)

- “Therapeutic Approaches to Treating Macrophage Activation Syndrome”, Organizer and Speaker, ACR meeting (2019)
- Voting panelist, ACR Guideline for the Management of JIA (2020)
- “The Temporomandibular Joint in JIA: What Now?”, Organizer and Speaker, Q&A Panelist, Roundtable Discussant, PRSYM meeting (2020)
- “Pediatric Rheumatology – Basic Science”, Abstract Selection Subcommittee, American College of Rheumatology National Scientific Meeting, Washington, DC (2020)
- “Preparing for Leadership in Rheumatology”, Panelist, Division Directors’ Special Committee session, American College of Rheumatology Convergence/National Scientific Meeting, Washington, DC (2020)

American Medical Association

American Pediatric Society (APS) (2015-present)

- Leadership Mentoring program (2015-present)
- International Travel Grant Program recipient to EAPS in Geneva, Switzerland (2016)

AMIGO (ACR/CARRA Mentoring Interest Group), Mentor (2011-present)

- Mentor to Dr. Grant Schulert (University of Cincinnati) (2013-2015)
- Mentor to Dr. Catherine Biggs (Harvard University) (2014-2016)
- Mentor to Dr. Angel Alberto Herrera Guerra (Emory University) (2016-2018)
- Mentor to Dr. Rebecca Sadun (Duke University) (2017-2018)
- Mentor to Dr. Shawn Mahmud (University of Minnesota) (2018-present)

Arthritis Foundation

- Speaker, Juvenile Arthritis National Conference (2007, 2010, 2011, 2012, 2016)
- Board of Directors, Alabama Chapter (2009-2010)
- Alabama Advisory Board (2010-2013)
- Scientific Review Committee for grants proposals (2010, 2012)
- Board of Directors, Southeast Region (2010-2013)
- Speaker, “Coronavirus and Arthritis: Navigating the New Normal – part 3: JIA and Families” - Arthritis Foundation and Centers for Disease Control webinar (2020)

Childhood Arthritis & Rheumatology Research Alliance (CARRA) (2002-present)

- Regional Liaison Representative to the Arthritis Foundation (2011-2013)
- Protocol Development Committee, interim acting chairperson (2002-2004)
- Lupus Scientific Priority Workgroup (2004-present)
 - Lupus Protocol Evaluation Subcommittee, Chairperson (2004-2005)
- “Systemic Lupus Erythematosus” sessions, Faculty & Moderator, CARRA meeting (2005)
- Patient data entry (2015-present)
- “COVID-19 Related Kawasaki Disease-like Illness and Hyperinflammation” - Virtual meeting of CARRA Kawasaki Disease workgroup, panelist

Childhood Myositis Heterogeneity Collaborative Study Group (2006-present)

EuroTMJoint Network – TMJaw (2011-present)

- Intraarticular Corticosteroid Treatment Subcommittee (2011-present)
- Expert analyst, Clinical Examination workgroup (2015)
- Co-organizer, 1st North American TMJaw meeting, Atlanta, GA (2019)

Histiocyte Society (2020-present)

International AIDS Society (IAS) (2013-present)

International Collaborative Macrophage Activation Study Group, founder & acting chairperson (2006-present)

Juvenile Arthritis Workgroup (JAW) for TMJ arthritis, founder and acting chairperson (2009-present)

Macrophage Activation Syndrome Collaborative (MASC) (2019-present)

- Original member site participant
- COVID-19 subcommittee member

OMERACT – TMJ MRI reading in juvenile idiopathic arthritis (2012-present)

Pediatric Rheumatology Collaborative Study Group (2004-present)

- Certified joint assessor (2013-present)
- Expert identifier of macrophage activation syndrome for study, A3921165, “A Safety, Efficacy and Pharmacokinetics Study of Tofacitinib in Pediatric Patients with sJIA” – PRCSG/PRINTO and Pfizer (2017-present)

Paediatric Rheumatology International Trials Organization (PRINTO)

- Delphi survey respondent for “Redefining the JIA Classification Criteria” (2019)

Pediatric Rheumatology Care & Outcomes Improvement Network (PR-COIN) (2018-present)

- Patient data entry and QI participant

Pediatric Rheumatology of the South (PRoS)

- Initial member (2018-present)
- Organizer, 1st meeting of PRoS, UAB, Birmingham, AL (2019)
- Co-Organizer, 3rd meeting of PRoS, Shriners Hospitals for Children, Shreveport, LA (2020)

Rheum4yAL

- Founder and board member (2013-present)

Sharing Antimicrobial Reports for Pediatric Stewardship (SHARPS) (2020-present)

- Immunomodulatory therapies for COVID-19 committee
 - IL-1 blockade statement, co-lead
 - Corticosteroid statement, reviewer

Society for Pediatric Research (SPR) (2002-present)

- “Macrophage Activation Syndrome: Diagnosis and Treatment”, Mini-course Symposium, Organizer and Co-moderator, SPR meeting (2008)
- “Basic Science”, Reviewer for Workshops, SPR meeting (2011)
- “Allergy, Immunology, and Rheumatology”, Abstract Selection Subcommittee, SPR meeting (2012, 2015)
- “Allergy, Immunology, and Rheumatology”, Abstract Selection Subcommittee, SPR and Society for Pediatric Research (SPR) meetings (2016)
- Fellows Basic Science Research Awards Selection Committee (2015-2018)

Subspecialty Pediatric Investigators Network (SPIN) (2018-present)

- Data entry on fellowship program

Tri-State (PA, DE, NJ) Pediatric Rheumatology Study Group (1999-2007)

MEMBERSHIPS:

(University of Pennsylvania):

Center for AIDS Research (CFAR)
Center for Musculoskeletal Disorders
Comprehensive Cancer Center, Immunobiology (IMB) section
Immunology Colloquium
Lupus Research Working Group
Physician-Scientists/MD-PhD Program
Vaccines and Immune Therapies Affinity Group

(University of Alabama at Birmingham):

Center for AIDS Research (CFAR)
Comprehensive Arthritis, Musculoskeletal and Autoimmunity Center
Comprehensive Cardiovascular Center (CCVC)
Graduate Program in Immunology
Immunology, Autoimmunity and Transplantation (IAT) Committee
Inflammation, Infection and Immunity (I³)
Macrophage Research Group
T Cell Biology Group
Virology Discussion Group
HIV Basic Sciences Research Group
HLH/MAS Work Group (founder)

COUNCILS AND COMMITTEES:

NIH/NIAMS R21 and R01 reviewer for RFA AR-03-005, "Microcirculation and Target Organ Damage in Rheumatic, Skin and Ocular Diseases", September 2003

NIH/NIAMS R01 Special Review Committee for a study of lupus in minorities, October 2003

Cornell University, Mary Kirkland Center for Lupus Research, ad hoc reviewer, November 2003

NIH/NIAMS R21 reviewer for RFA AR-04-002, "High Risk Rheumatologic and Musculoskeletal and Skin Disease Research", May 2004

NIH/NIDDK P01 reviewer (special emphasis panel) for studies related to ANCA glomerulonephritis, April 2005

NIH/Pediatric Scientist Development Program, ad hoc reviewer, May 2005

Penn Center for AIDS Research, ad hoc grant reviewer for Pilot and Feasibility grants, May 2005

NIH/NIAMS R03 reviewer, Special Emphasis Panel, July 2006

US Immunodeficiency Network (USIDNET) Consortium, Scientific Review Committee, 2007-2009

UAB Children's Center for Research & Innovation, grant reviewer, 2007, 2009, 2010, 2013, 2014

Lupus Research Institute, Scientific Review Committee, September 2008

UAB Rheumatic Diseases Core Center Pilot Grants, Scientific Review Committee, August 2009

Arthritis Foundation, Juvenile Arthritis Innovative Research Grants, Scientific Review Committee, February 2010

Alpha Omega Alpha, Carolyn L. Kuckein Student Research Fellowships, grant reviewer, March 2011

Parent Bridge programme, Foundation for Polish Science, grant reviewer, June 2011, December 2011

Lupus Foundation of America, National Research Program, grant reviewer, July 2011, 2013

UAB Immunology, Autoimmunity, Transplantation Committee, grant reviewer, August and October 2011, April 2013, May 2014

American College of Rheumatology (ACR) Research and Education Foundation (REF) basic science study section member/grant reviewer, September 2011-2013

Comparative Effectiveness Research conducted by the Effective Health Care Program, clinician research summary reviewer, September 2011

Arthritis Foundation, Post-doctoral Fellowships, grant reviewer, September 2012

Great Ormond Street Hospital Children's Charity, grant reviewer, May 2013

American College of Rheumatology (ACR) Research and Education Foundation (REF) basic science study section C, Chair/grant reviewer, September 2013-2015

NIH/NIAID, "Autoimmunity Centers of Excellence" and "Basic Research Program", ACE grant reviewer, November 2013

NIH/NIAID/CFAR, "Creative and Novel Ideas in HIV Research (CNIHR) Awards Program", grant reviewer, April 2014

NIH/NIAMS Special Emphasis Panel/Scientific Review Group, "Hypersensitivity and Immune-Mediated Diseases", grant reviewer, February 2015

Alabama Drug Discovery Alliance (ADDA), grant reviewer, 2015

NIH/NIEHS, Clinical Research Branch, ad hoc reviewer, March 2017

NIH/NIAID Special Emphasis Panel/Scientific Review Group, “Understanding HIV Persistence in Infants (R01)”, grant reviewer, April 2017

Deutsche Forschungsgemeinschaft (German Research Foundation), grant reviewer, 2017

European Research Council (ERC) Consolidator Grant, grant reviewer, 2017

UAB CFAR (Center for AIDS Research) Pilot Grant Program, grant reviewer, 2018

French National Program for Clinical Research (PRHCN)/Ministry for Solidarity and Health, grant reviewer, 2019

Italian Medicines Agency (AIFA), grant reviewer, 2020

NIH/NIAID, P01 Program Project Special Emphasis Panel, grant reviewer, March 2020

United Kingdom Research and Innovation (UKRI) Medical Research Council (MRC) Developmental Pathway Funding Scheme (DFPS), grant reviewer, April 2020

UNIVERSITY ACTIVITIES:

(University of Washington):

1. Interviewer, Department of Pediatrics Residency Program, Children's Hospital & Medical Center, Seattle, WA, 1996

(Stanford University):

2. Interviewer, Department of Pediatrics Residency Program, Stanford Children's Hospital, Palo Alto, CA, 1998

(University of Pennsylvania):

3. University of Pennsylvania John Morgan Pre-Health Society Doctor-Shadowing Program, mentor, December, 2000-2007
4. Member, Curriculum Committee for University of Pennsylvania Immunology Graduate Group, 2000-2005
5. Co-director, Pediatric Rheumatology Fellowship Program, 2001-2004
6. Member, Student Affairs Committee for University of Pennsylvania Immunology Graduate Group, 2001-2006
7. Interviewer, Department of Pediatrics Residency Program, Children's Hospital of Philadelphia, Philadelphia, PA, 2001-2007
8. Interviewer, Immunology Graduate Group, University of Pennsylvania, 2002-2007
9. Host, Academic Interest Table, MD/PhD (combined degree) annual retreat, 2002-2004
10. Foerderer Fund for Excellence, Medical Advisory Committee, CHOP, 2003
11. Mentor, Children's Hospital of Philadelphia, Residency Mentoring Program, 2003
12. University of Pennsylvania, AMSA (American Medical Student Association) Physician Shadowing, 2005-2007
13. Develop/organize Vaccines and Immune Therapies Affinity Group lecture series, 2005-2007
14. Develop/maintain Vaccines and Immune Therapies Affinity Group website, 2005-2007
15. Advisory Board member, Rheumatology P50 grant application, 2005
16. Interviewer, VMD/PhD Program, University of Pennsylvania School of Veterinary Medicine, 2007

(University of Alabama at Birmingham):

17. Chair, Scientific Review Committee for Pediatric Rheumatology, 2007-present
18. Children's Center for Research & Innovation, grant reviewer, 2007, 2009, 2010, 2013, 2014
19. Committee for faculty recruitment to adult Rheumatology Division at UAB, 2007-present
20. Executive Committee Member for the UAB Rheumatic Diseases T32 training grant, 2007-present
21. Co-Study Coordinator, SISCR (Severe Immunosuppression with Stem Cell Rescue for Systemic JIA), 2007-2009
22. Reviewer, patient eligibility for National Collaborative Study of Stem Cell Transplantation for Autoimmune Disease, FHCRC Protocol #1353 – Pediatric Autoimmune Diseases, 2007
23. Chairperson, Committee for faculty recruitment to the Division of Pediatric Rheumatology at UAB, 2008-present

24. Interviewer and selection committee member, Department of Pediatrics Residency Program, Children's Hospital of Alabama, Birmingham, AL, 2008-present
25. UAB Arthritis and Musculoskeletal Center Steering Committee, 2009-present
26. Presenter, Children's Hospital of Alabama Pediatrics Residency Research Mentor Day, 2009
27. Mentor, UAB Summer Premedical Student Program (doctor shadowing), Ms. Tishi Shah, 2009
28. Committee for faculty recruitment to Pediatric Endocrinology Division at UAB, 2009-2011
29. Mentor, UAB Summer Premedical Student Program (doctor shadowing), Mr. Kishorbhai Gangani, 2010
30. Pediatric Rheumatology Medical Service Representative for iConnect Computerize Physician Order Entry (CPOE), 2009-present
31. Member, UAB Distinguished Faculty Lecturer Committee, 2010-2012, champion for candidate, Dr. Sergio Stagno, 2012 (awarded to Dr. Stagno in 2015)
32. Reviewer, scientific abstracts for oral presentations, UAB Medical Student Research Day, 2010
33. Pediatric Residency Recruiting Committee, 2010-present
34. UAB Arthritis and Musculoskeletal Center Training Program Steering Committee, 2010-present
35. UAB CFAR Internal Advisory Core Directors Committee, 2010-present
36. UAB Immunology, Autoimmunity, Transplantation Steering Committee, 2010-2015
37. UAB Immunology, Autoimmunity, Transplantation Steering Committee, Adaptive Immunology Work Group, 2011-2015
38. Interviewer, UAB, Medical Scientist Training Program, 2011-present
39. Interviewer, UAB Immunology Theme Graduate Student Program, 2011-present
40. Member, NIAMS Multidisciplinary Clinical Research Center (MCRC) Executive Committee, 2011-2013
41. Judge, Poster exhibits for Graduate Biomedical Sciences first year theme students, 2011
42. Interviewer, UAB Pathobiology & Molecular Medicine Graduate Student Program, 2012
43. Member, UAB Clinical Immunology & Rheumatology MCRC Executive Committee, 2012-present
44. Mentor, UAB Pediatrics Child Health Research Center Development Award, K12, 2012-2013
45. Member, UAB Healthcare Leadership Academy Advisory Board, 2012-present
46. Member, CoA CPOE and Chemotherapy Committee, 2012-present
47. Established Kennedy Endowed Lectureship in Pediatric Rheumatology, 2013-present
48. Developer, Development of Anakinra Hospital Use Guidelines, Protocol, and Consent, Children's of Alabama Medication Safety Committee, and Medical Executive Committee, 2013
49. Member, Transition/Maximum Age for Eligibility of Care Task Force Committee, 2013
50. Member, Department of Pediatrics Career Evaluation and Promotions Committee, 2013-2017, interim chair, 2014, 2015
51. Member, Search Committee for Chairperson of the Department of Pediatrics at UAB, 2013-2014
52. Member, Pediatrics Workforce Taskforce, 2013
53. Member, MCRC (Rheumatology P60) Executive Committee, 2013-2018
54. Member, Taskforce on Role of CoA in Autism Spectrum Disorders, 2014-present
55. Member, Committee for Faculty Recruitment to Pediatric Gastroenterology Division at UAB, 2014-present
56. Member, Search Committee for Vice Chairman for Office of Faculty Development, Department of Pediatrics, 2014-2015

57. Member, Committee on Endowed Chairs in the Department of Pediatrics, 2014-present
58. Member, Committee for Faculty Recruitment to Pediatric Allergy & Immunology Division at UAB, 2014-present
59. Judge, Research Day Poster Competition, World AIDS Day, UAB CFAR, 2014
60. Member, CCTS Research Commons – Panels Done Quickly (PDQ) for Dr. Mark Walter, “Type-I Interferons as a Regulator of Immunity and Inflammation”, 2015
61. Member, Research Training Program in Musculoskeletal Diseases Research (RTP) Internal Advisory Committee, 2015-present
62. Grant reviewer, Alabama Drug Discovery Alliance (ADDA), 2015
63. Mentor, UAB Department of Pediatrics, Basic Science facilitator and mentor for junior faculty, 2015-present
64. Member, CCTS Research Commons – Panels Done Quickly (PDQ) for Dr. Stephanie Sabbaj, “Differentiation of Tissue Resident Memory (TrM) CD8 T cells and the Maintenance and Function of CD4 Th17 cells”, 2016
65. Member, CCTS Research Commons – Panels Done Quickly (PDQ) for Dr. Laura Timares, “T cell populations in HIV-infected/ART-treated (HIV/ART) patients are imprinted by the immunologic stress of the initial rampant infection, causing them to remain in a stable state of dysfunction”, 2016
66. Poster Facilitator/Judge, Pediatric Science Day, Children’s of Alabama/UAB Dept. of Pediatrics, 2018,
67. Panelist, Career Development Panel on Applying for Fellowship, UAB Dept. of Pediatrics, 2018
68. Chair, Search Committee for Division Director of Pediatric Endocrinology at UAB, 2018-2019
69. Founder, HLH/MAS Work Group, UAB, 2018
70. Grant review committee for Dr. Mark Walter R01 proposal, “Type I Interferon as a Marker for Multiple Sclerosis”, 2018
71. Abstract Reviewer, Pediatric Science Day, Children’s of Alabama/UAB Dept. of Pediatrics, 2019, 2020
72. Panelist, Career Development Workshop, “Applying for a Fellowship”, UAB, Dept. of Pediatrics, 2019
73. Interviewer, UAB Medical Students MS4 Mock Interviews, 2019
74. Faculty Advisor, UAB Pediatric/Medical Genetics resident, Kristin Linscott, MD, 2020-2023
75. Member, UAB COVID-19 Treatment Committee, 2020
76. Founder and member, Children’s of Alabama COVID-19 Treatment Committee, 2020
77. Program Associate Director, UAB Training Program in Rheumatic and Musculoskeletal Disease Reserch (T32, AR069516), 2020-present
78. Member, Research Training Program (RTP) Executive Committee (UAB T32 AR069516), 2020-present
79. Rheumatology representative to UAB COVID-19 Treatment Committee subcommittee to screen for new clinical trials, 2020
80. Member, COVID-19 testing for pediatric patients in Jefferson County workgroup, Jefferson County Department of Health, 2020

81. Grant review committee for Dr. Mark Walter R21 proposal, “Antibodies and Origins of Urinary B-cells”, 2020
82. Panelist (Zoom), “MIS-C Case Presentation and Discussion”, Jefferson County Pediatric Society, 2020
83. Member, “Thursday Thoughts”, Pediatricians at CoA for racial justice, 2020

(University of Mississippi):

84. Mentor for Dr. Nina Washington, University of Mississippi Department of Pediatrics Faculty Development Advisory Group, 2015-2016

(Stanford University):

85. Member, External Advisory Committee for combined Adult and Pediatric Rheumatology T32 Training Program at Stanford, 2020-present

EDITORIAL BOARD MEMBERSHIPS:

ACR Open Rheumatology, Associate Editor, 2020-present

Arthritis and Rheumatism, Advisory Editor, 2007-2010

Arthritis Care & Research, Editorial Board, 2015-2018

Clinical and Diagnostic Laboratory Immunology, Editorial Board, 2002-2005

Clinical and Vaccine Immunology, Editorial Board, 2006-2010

Frontiers in Immunology, 'Autoimmune & Autoinflammatory Disorders' section, Associate Editor, 2018-present

Genes and Immunity, Editorial Board, 2002-present

Journal of Immunology, Associate Editor, 2005-2008; Section Editor, 2014-2018

Pediatric Rheumatology, Section Editor, 2007-2008; Senior Editor, 2008-present

Pediatric Rheumatology Online Journal, co-Founder, Basic Science Editor, 2002-2006

MAJOR RESEARCH INTERESTS:

1. Identification, characterization, repertoire, and ligands of TCR $\gamma\delta$ T lymphocytes.
2. Dysregulation of CD154 in systemic lupus erythematosus.
3. Mutations in cytolytic pathway proteins contributing to macrophage activation syndrome.
4. CD4 T cell host factor regulation of HIV-1 LTR transcriptional activity and latency.
5. Opposing roles of NFAT2 and FOXP3 transcription factors in CD4 T cell effector function.
6. Diagnosis and treatment of temporomandibular joint arthritis in childhood arthritides.
7. Diagnosis and treatment of macrophage activation syndrome and hemophagocytic lymphohistiocytosis.
8. COVID-19 cytokine storm syndrome.
9. Role of the microbiota in spondyloarthritis.
10. Early, aggressive, and reasoned approach to treatment of pediatric rheumatic diseases.

TEACHING EXPERIENCE:

CME/GRAND ROUNDS/EDUCATIONAL LECTURES:

(University of Washington):

1. Lecturer, "A Seven Year Experience of Pediatric Sarcoidosis at Children's Hospital and Medical Center, Seattle" - Pediatric Grand Rounds, Seattle, Washington, March, 1995

(Stanford University):

2. Faculty, "Pediatric Rheumatology for the Adult Rheumatologist", CME course, UC San Francisco, CA, April, 1999

(University of Pennsylvania):

3. Lecturer, "A Case of Atypical Kawasaki Disease" - Pediatric Grand Rounds, Children's Hospital of Philadelphia, April 2000
4. Faculty/Lecturer, "Pediatric Rheumatology", Pediatric Refresher/CME Course, Children's Hospital of Philadelphia, September 2000-2004
5. Lecturer, "Children with Rheumatic Diseases, Not Just Small Adults", Internal Medicine Rheumatology Conference, University of Pennsylvania School of Medicine, November 2000
6. Lecturer, "Pediatric Rheumatology", Senior Pediatric Residents review course, Children's Hospital of Philadelphia, May 2001
7. Lecturer, "Juvenile Connective Tissue Diseases", First Year Rheumatology Fellows Conference, University of Pennsylvania, July 2001-2006
8. Lecturer, "Treatment for JRA in the New Millennium", Internal Medicine Rheumatology Conference, University of Pennsylvania School of Medicine, September 2001
9. Lecturer, "Update - General Rheumatology for the Primary Care Physician", Pediatric Grand Rounds, Delaware Valley Medical Center, Philadelphia, PA, September 2002
10. Lecturer, "CD154 Regulation and SLE", Internal Medicine Rheumatology Conference, University of Pennsylvania School of Medicine, November 2003
11. Specialist, PediaPredd Resident Conference covering Rheumatology, February 2004
12. Lecturer, "Current Therapy for JIA" - Lehigh Valley Pediatric Grand Rounds, Allentown, PA, September 2004
13. Lecturer, "JIA and Treatment Options", Interventional Radiology Conference, Children's Hospital of Philadelphia, October 2004
14. Lecturer and Faculty, "Interpretation of Commonly Ordered Laboratory Tests" for "The Pediatric and Adolescent Rheumatology: Practical Guidelines for the Primary Care Clinician Conference", A.I. Dupont Children's Hospital, Wilmington, DE, October 2004

(University of Alabama at Birmingham):

15. Rheumatology Content Expert, Pediatric Morning Report "Stagno Rounds", 2007-present
16. Lecturer, "Juvenile Connective Tissue Disease - I", for adult Rheumatology Fellow's conference, University of Alabama at Birmingham, Birmingham, AL, December 2007
17. Lecturer, "Juvenile Connective Tissue Disease", for Pediatric Residents' education, Children's Hospital of Alabama, Birmingham, AL, January 2008
18. Lecturer, "JIA, an Update on Classification, Diagnosis, and Treatment", Department of Orthopedics Seminar, Children's Hospital of Alabama, Birmingham, AL, January 2008

19. Lecturer, “Juvenile Connective Tissue Disease - II”, for adult Rheumatology Fellow’s conference, University of Alabama at Birmingham, Birmingham, AL, May 2008
20. Lecturer, “Macrophage Activation Syndrome”, University of Alabama at Birmingham School of Medicine, Allergy/Immunology Fellow’s Conference, October 2008
21. Lecturer, “Juvenile Idiopathic Arthritis: An Update on Classification and Therapy”, Rheumatology CME course, Huntsville, AL, February 2009
22. Lecturer, “Pediatric Rheumatology Oddities and Rarities”, for Pediatric Residents’ education, Children’s Hospital of Alabama, Birmingham, AL, February 2009
23. Lecturer and Faculty, “Juvenile Idiopathic Arthritis: An Update on Classification and Therapy”, for The Pediatric Allergy, Immunology, & Rheumatology CME Updates, Children’s Hospital of Alabama, Birmingham, AL, February 2009
24. Lecturer, “Be Afraid, Be Very Afraid of Macrophage Activation Syndrome”, UAB Medicine, Pulmonary/Critical Care conference, April 2009
25. Lecturer, “Juvenile Connective Tissue Disease”, for senior Pediatric Residents’ boards review, Children’s Hospital of Alabama, Birmingham, AL, May 2009
26. Lecturer, “Juvenile Idiopathic Arthritis”, for adult Rheumatology Fellow’s conference, University of Alabama at Birmingham, Birmingham, AL, August 2009
27. Lecturer and Faculty, “Temporomandibular Joint Arthritis in Juvenile Idiopathic Arthritis – A Common Occurrence”, for The Pediatric Allergy, Immunology, & Rheumatology CME Updates, Children’s Hospital of Alabama, Birmingham, AL, April 2010
28. Lecturer, “JIA, an Update on Classification, Diagnosis, and Treatment”, for adult Rheumatology Fellow’s conference, University of Alabama at Birmingham, Birmingham, AL, August 2010
29. Lecturer, “Juvenile Connective Tissue Disease”, for senior Pediatric Residents’ boards review, Children’s Hospital of Alabama, Birmingham, AL, December 2010
30. Lecturer and Faculty, “Be Afraid, Be Very Afraid of Macrophage Activation Syndrome”, for The Pediatric Allergy, Immunology, & Rheumatology CME Updates, Children’s Hospital of Alabama, Birmingham, AL, May 2011
31. Lecturer, “Be Afraid, Be Very Afraid of Macrophage Activation Syndrome”, for adult Rheumatology Fellow’s conference, University of Alabama at Birmingham, Birmingham, AL, August 2011, July 2012, July 2013, October 2014, October 2015, December 2016, January 2018
32. Lecturer, Faculty, and Course Designer, “Macrophage Activation Syndrome”, for The Pediatric Rheumatology CME Updates, “Springing into Pediatric Rheumatology”, Children’s Hospital of Alabama, Birmingham, AL, March 2016
33. Lecturer, “Macrophage Activation Syndrome – Kill or Be Killed”, for the Juvenile Arthritis Research Symposium in Honor of Dr. Carol Wallace, Seattle Children’s Research Institute, May 2016
34. Lecturer, “Research During Residency”, Pediatric Residents Research group, Children’s of Alabama, Birmingham, AL, October 2017
35. Lecturer, “Be Afraid, Be Very Afraid of Macrophage Activation Syndrome”, for Pediatric Resident’s conference, University of Alabama at Birmingham, Birmingham, AL, March 2018
36. Lecturer, “Juvenile Idiopathic Arthritis”, for adult Rheumatology Fellow’s conference, University of Alabama at Birmingham, Birmingham, AL, April 2018
37. Lecturer, “An Overview of Pediatric Rheumatology”, Clinical Laboratory Management Program, UAB School of Health Professions, Birmingham, AL, November 2018

38. Lecturer, “Juvenile Idiopathic Arthritis”, for adult Rheumatology Fellow’s conference, University of Alabama at Birmingham, Birmingham, AL, March, 2019
39. Lecturer, “Be Afraid, Be Very Afraid of Macrophage Activation Syndrome”, for Pediatric Resident’s conference, University of Alabama at Birmingham, Birmingham, AL, April 2019
40. Lecturer, “Cytokine Storm Syndrome – Kill or Be Killed” - University of Alabama at Birmingham ECMO Education Day, Birmingham, AL, February 2020
41. Lecturer, “Cytokine Storm Syndrome – Kill or Be Killed”, for adult Rheumatology Fellow’s conference, University of Alabama at Birmingham, Birmingham, AL, March, 2020
42. Lecturer, “Juvenile Idiopathic Arthritis”, for adult Rheumatology Fellow’s conference, University of Alabama at Birmingham, Birmingham, AL, March, 2020
43. Lecturer, “Cytokine Storm Syndrome – Kill or Be Killed” - University of Alabama at Birmingham PICU Nursing Education Day, Birmingham, AL, March 2020
44. Lecturer, “Cytokine Storm Syndrome – Kill or Be Killed” - University of Alabama at Birmingham Pediatric Hematology/Oncology Division, Birmingham, AL, April 2020
45. Lecturer, “Cytokine Storm Syndrome – Kill or Be Killed” - University of Alabama at Birmingham PICU Nursing Education Day 2, Birmingham, AL, April 2020
46. Lecturer, “Cytokine Storm Syndrome – Kill or Be Killed” - University of Alabama at Birmingham Pharmacology Conference, Birmingham, AL, April 2020
47. Invited participant/expert, “Novel Multi-System Inflammatory Disease”, PICU-COVID-19 collaborative webinar, via Harvard, May 2020
48. Lecturer, “Cytokine Storm Syndrome – Kill or Be Killed” - Children’s of Alabama Advanced Practice Pharmacology Conference, Birmingham, AL, October 2020
49. Lecturer, Faculty, and Panel Discussant, “Who Would Have Predicted MIS-C?”, “Practical Day of Pediatrics”, UAB Dept. of Pediatrics, Birmingham, AL, February 2021

(University of Miami - Visiting Professorship):

50. Lecturer, “Juvenile Connective Tissue Disease - I”, Pediatrics Resident Noon Conference, Holtz Children’s Hospital, Miami, FL, April 2012
51. Lecturer, “Juvenile Idiopathic Arthritis”, Medical Student Pediatric Clerkship Lecture Series, Holtz Children’s Hospital, Miami, FL, April 2012
52. Lecturer, “Juvenile Connective Tissue Disease - II”, Pediatrics Resident Noon Conference, Holtz Children’s Hospital, Miami, FL, April 2012
53. Lecturer, “Macrophage Activation Syndrome in the Pediatric ICU”, Pediatric ICU Rounds, Holtz Children’s Hospital, Miami, FL, April 2012

(Albany Medical College - Visiting Professorship):

54. Lecturer, “Pediatric Connective Tissue Diseases”, Pediatrics Resident Conference, Children’s Hospital at Albany Medical Center, Albany, NY, June 2015
55. Lecturer, “Juvenile Idiopathic Arthritis”, Pediatrics Resident Conference, Children’s Hospital at Albany Medical Center, Albany, NY, June 2015
56. Lecturer, “Be Afraid, Be Very Afraid of Macrophage Activation Syndrome”, Adult Rheumatology Fellows Conference, Children’s Hospital at Albany Medical Center, Albany, NY, June 2015

(University of Colorado - Visiting Professorship):

57. Lecturer, “Macrophage Activation Syndrome – Not Just for Children”, Arthritis Foundation and Local (community and academic) Adult and Pediatric Rheumatologists, Denver, CO, November 2019
58. Lecturer, “Macrophage Activation Syndrome – Kill or Be Killed”, University of Colorado, Rheumatology Grand Rounds, Denver, CO, November 2019

(Louisiana State University - Visiting Professorship):

59. Lecturer, “Treatment of Juvenile Idiopathic Arthritis: A Revolution in Care”, Pediatric Grand Rounds, Children’s Hospital New Orleans, New Orleans, LA, March 2020
60. Lecturer, “Pediatric Connective Tissue Diseases”, Pediatrics Resident Conference, Children’s Hospital New Orleans, New Orleans, LA, March 2020
61. Lecturer, “Macrophage Activation Syndrome – Kill or Be Killed”, LSU Adult Rheumatology Grand Rounds, New Orleans, LA, March 2020

(Harvard University - Meet the Professor Session):

62. Lecturer, “COVID-19 Cytokine Storm Syndrome”, Harvard’s Advances in Rheumatology Course, Cambridge, MA, October 2020

UNIVERSITY COURSES:

(University of Pennsylvania):

63. Lecturer, Immunology 999/599, Immunology Faculty Research Seminar, University of Pennsylvania Medical School, 2000-2006
64. Founder and course director, CHOP Pediatric Rheumatology Grand Rounds (CME accredited), 2001-2007
65. Co-director, Immunology 599, Fall 2001, 2002 and Spring 2002, 2003
66. Faculty Mentor, Immunology 605, Current Topics in Molecular and Cellular Immunology, Spring 2001 (Marina Kremyanskaya)
67. Lecturer, Immunology 605, March 2002
68. Faculty Tutor, Immunology 520, Elective Tutorials in Immunology, Fall 2002 (Emily Rowell)
69. Lecturer, University of Pennsylvania, Biochemistry Seminar Series, September 2002
70. Mentor, Doctor-Patient Relationship course (MD301), Fall 2002, Spring 2004, Fall 2005, Fall 2006
71. Co-director, Immunology 605, Spring 2003
72. Course Director, Immunology 520, Fall 2003, 2004
73. Faculty Mentor, Immunology 605, Spring 2004 (Jodi Buckler)
74. Lecturer, CAMB 542, Topics in Molecular Medicine, University of Pennsylvania MD/PhD program, 2004
75. Lecturer, Immunology 506, Immune Mechanisms, Fall 2004
76. Preceptor, MD305, Introduction to Clinical Medicine, Fall 2004
77. Lecturer, Immunology 508, Immune Responses, Spring 2005, 2006, 2007
78. Lecturer, Chalk Talks, Microbiology, Virology, & Parasitology Program, Fall 2006
79. Lecturer, University of Pennsylvania Medical School “Frontiers in Medicine”, Winter 2007

(University of Alabama at Birmingham):

80. Lecturer, Pathology 795, Rheumatology/CAMBAC Journal Club, 2008-present
81. Case Presentation, University of Alabama at Birmingham School of Medicine, "Patient Centered Teaching", Medicine/Rheumatology, Spring 2008, Fall 2009
82. Lecturer, topic of "Pediatric Rheumatology", University of Alabama at Birmingham School of Medicine 3rd year medical students required Pediatric clerkship, every 8 weeks, 2008-2010
83. Lecturer, "Juvenile Idiopathic Arthritis", UAB School of Medicine Musculoskeletal and Skin Module, September 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019
84. Mentor, Integration of Basic Science and Clinical Medicine for 3rd year medical students, 2010-present
85. Lecturer, "Transcription Factors in Autoimmunity and Autoimmune Diseases", Advanced Course in Autoimmunity, Spring 2010
86. Course Director, Pediatric Rheumatology Acting Internship for medical students, 2010-present
87. Participating Faculty member, Pediatric Dentistry Physical Assessment I, Clinical Rotation, Fall 2010-present
88. Evaluator, PROSCE (Pediatric Rheumatology Objective Structured Clinical Examination), Northwestern University, November 2011
89. Lecturer, "Macrophage Activation Syndrome: A Killer Disease with a Killing Defect", UAB HHMI Program course, "Modeling Human Diseases", June 2014

MENTORING OF TRAINEES:

UNDERGRADUATE STUDENTS:

(University of Pennsylvania):

90. Mentor for Palav Babaria, Harvard University undergraduate, Summer 2001 (Yale Medical School, Internal Medicine Residency core faculty member at Highland Hospital, Oakland, CA)
91. Mentor for Elizabeth Dejewski (Reetz), LaSalle University undergraduate, 2001-2002 (Family physician in Baltimore, MD)
92. Mentor for Leila Sadeghi, University of Pennsylvania undergraduate, 2002-2003 (University of Maryland School of Medicine, Residency in Psychiatry at Cornell, Fellowship in Child & Adolescent Psychiatry at NYU, now practices Child and Adolescent Psychiatry, New York, NY)
93. Mentor for Eric Chen, University of Pennsylvania undergraduate, 2002-2003 (awarded Pediatric AIDS Foundation research scholarship, UC Irvine Medical School, UCLA Residency and Fellowship, Diagnostic Radiologist in Walnut Creek, CA)
94. Mentor for Marie Ridenour (Luksch), Loyola College in Maryland, Summer 2005 (awarded Goldie Simon preceptorship, Lupus Foundation; Nova Southeastern University Osteopathic School, Ft. Lauderdale, FL; Residency at Rowan University in NJ, OB/Gyn in Paoli, PA)

(University of Alabama at Birmingham):

95. Mentor for Barrett Larussa, Sewanee University of the South undergraduate, Summer 2011 (works at UAB)
96. Mentor for Brian Lefchak, Drexel University (Philadelphia, PA) undergraduate, Summer 2011 (medical student at Drexel University College of Medicine)
97. Mentor for Hannah Sisler, Birmingham Southern College (Birmingham, AL) undergraduate, January 2017

98. Mentor for Donald Gaines, Birmingham Southern College (Birmingham, AL) undergraduate, January 2017
99. Mentor for Remy Cron, Alabama School of Fine Arts, high school student, senior thesis, 2019
100. Mentor for Kristine Farag, University of Alabama at Birmingham, undergraduate Immunology major, shadowing, February 2020
101. Mentor for Abhishek Kamath, UAB Early Medical School Acceptance Program undergraduate

GRADUATE STUDENTS:

(University of Pennsylvania):

102. Thesis committee member for UPenn immunology graduate student, Mark Ma, 2001-2006
103. Mentor for Leanne Johnson, University of Pennsylvania rotating graduate student, 2002-2003, IMUN 699
104. Mentor for Jennifer Kozak, University of Pennsylvania medical student, 2003 (awarded American College of Rheumatology Research and Education Foundation scholarship)
105. External reviewer for Mark Cotton's thesis proposal, Stellenbosch University, South Africa, 2004
106. Mentor for Dr. Pamela Fitch, Children's Hospital of Philadelphia pediatric resident, 2003-2004 (awarded Resident Research Award for her abstract submitted to the American College of Rheumatology Annual Scientific Meeting)
107. Thesis committee member for UPenn immunology graduate student, Leanne Johnson, 2005-2007
108. Thesis committee member for UPenn immunology graduate student, Eric Allenspach, 2005-2007
109. Mentor for Greta Weiss, University of Pennsylvania rotating graduate student, 2005, IMUN 699
110. Mentor for Nural Orgun, University of Pennsylvania rotating graduate student, 2005, IMUN 699
111. Mentor for Audrey Daggan, Tufts Medical School medical student, 2006 (awarded Goldie Simon preceptorship from the Lupus Foundation)
112. Mentor for Sarah White, Drexel University College of Medicine medical student, 2006 (awarded APS/SPR Student Research scholarship)
113. Mentor for Ian Ferguson, New Jersey Medical School, 2006 (funded by Stokes Institute), 2015 - Assistant Professor, Pediatric Rheumatology, Yale University
114. Thesis committee member for UPenn CAMB graduate student, Haitao Hu, 2006-2007

(University of Alabama at Birmingham):

115. Mentor for Katherine Donnithorne, UAB medical student, Department of Pediatrics Russell Cunningham Memorial Research Scholars Program; Award winning research abstract for Medical Students Research Day, UAB, October 2008, 2008-2011, 2013
116. Thesis committee member for UAB immunology graduate student, Sarah Whitley, 2009-2011
117. Mentor for Dr. Christopher Dodd, Children's Hospital of Alabama pediatrics resident, 2009-2010
118. Mentor for Jessica Record, UAB medical student, 2009-2011 (awarded 2010 Alpha Omega Alpha Carolyn L. Kuckein student research fellowship), ACR REF/Abbott Medical/Graduate Student Achievement Award (2010)
119. Mentor for Tyler Sharpe, UAB medical student, 2010-2011
120. Mentor for Dr. Melissa Mannion, Children's Hospital of Alabama pediatrics resident, 2010-2011
121. Mentor for Lindsay Harbin, UAB medical student, 2010-2011 (T35 summer research program)

- alternate with internal funding provided by university for high score on application)
122. Mentor for Dr. John McLendon, Children's Hospital of Alabama pediatrics resident, 2010-2011
 123. Mentor for George Atkinson, UAB medical student, 2010-2011
 124. Mentor for Tanya Robinson, University of Alabama at Birmingham, rotating immunology graduate student, 2010
 125. Mentor for Caroline Colvin, Children's Hospital of Alabama pediatrics resident, 2010
 126. Mentor for Emily Fain, UAB medical student, 2010-2011
 127. Mentor for Qing Zhao, University of Alabama at Birmingham, rotating microbiology graduate student, 2010
 128. Mentor for Hyungwoo Nam, University of Alabama at Birmingham, rotating immunology graduate student, 2011
 129. Mentor for Timothy Rohrbach, University of Alabama at Birmingham, rotating immunology graduate student, 2011
 130. Mentor for Stephen M. Johnson, UAB medical student, 2011
 131. Thesis advisor for graduate student, Tanya Robinson, CFAR "Basic Mechanisms in AIDS Pathogenesis" T32 recipient, 2011-2015, AAI Careers in Immunology Fellowship recipient, 2015-2016; 2017 – postdoctoral fellow at University of Texas MD Anderson Cancer Center with a PhD in Immunology, 2019 – Assistant Professor of Medicine, University of Mississippi
 132. Chairperson, thesis committee for UAB immunology graduate student, Tanya Robinson, 2011-2016
 133. Mentor for Kimberly Westhoven, UAB medical student, 2011
 134. Mentor for Susan Wiltrakis, UAB medical student, 2011
 135. Mentor for Shane McKinney, UAB medical student, 2011
 136. Mentor for Leanne Bowman, UAB pediatric dental student, 2011
 137. Mentor for Suwat Teerawattanapong, UAB Oral & Maxillofacial (OMF) Surgery resident, 2011
 138. Rina Mina, M.D., M.Sc. (2011-2012), University of Cincinnati Pediatric Rheumatology fellow, studying iontophoresis of corticosteroids to treat TMJ arthritis in JIA
 139. Mentor for Ashley Shafferman, UAB medical student, 2012, 2014
 140. Mentor for Ajay Tambralli, UAB medical student, 2012, 2014
 141. Mentor for Benjamin Abt, DMD, OMF surgery resident, 2012
 142. Mentor for Anthony Morlandt, DDS, MD, OMF surgery resident, 2012
 143. Qualifying exam committee member for Microbiology thesis student, Victor Du, 2012
 144. Mentor for Courtney Crayne, UAB medical student, 2012
 145. Mentor for Ashley Conoway, University of Alabama at Birmingham, rotating HHMI immunology graduate student, 2012
 146. Mentor for Floyd Dunnivant, UAB radiology resident, 2012
 147. Thesis committee member for UAB immunology graduate student, Victor Du, 2012-2016
 148. Mentor for Roxanna Sabghi, UAB medical student, 2013
 149. Thesis committee member for UAB immunology graduate student, Sara Stone, 2013-2017
 150. Mentor for Sulaiman Al-Ruwaily, DDS, MD, OMF surgery fellow, 2013
 151. Mentor for Saji Azerf, UAB medical student, 2014
 152. Mentor for Rachel Harvey, UAB dental student, 2014
 153. Mentor for Leslie Avant, UAB medical student, 2015

154. Mentor for Catherine Poholek, UAB medical student, 2015
155. Thesis committee member for UAB immunology graduate student, Molly Bolland, 2015-
ad astra
156. Mentor for Surabhi Vinod, UAB medical student, 2016
157. Mentor for Bethany Johnson, UAB medical student, 2017
158. Mentor for Allison Blackerby, UAB Biotechnology Masters Program student, 2017
159. Mentor for Caroline Arata, UAB medical student, 2017
160. Mentor for Mahmoud Elsayed, UAB medical student, 2017
161. Mentor for Chace Mitchell, UAB medical student, 2017
162. External Examiner, Thesis Committee for Simon Eng, Immunology PhD Candidate,
University of Toronto, July 2018
163. Thesis committee member for UAB Virology, Immunology and Cellular Biology
graduate student, chair for qualifying exam, Eric Carlin, 2019-
164. Mentor for Jameson Wiener, UAB medical student, 2019
165. Thesis committee member for UAB Immunology graduate student, Mildred Perez, 2020-
166. NIH K01 grant committee member for UAB Biochemistry and Molecular Genetics
postdoctoral trainee, Alyssa Hansen
167. Thesis committee member for UAB MSTP student, Colin Quinn, 2020-

CLINICAL RHEUMATOLOGY FELLOWS:

FORMER FELLOWS (University of Pennsylvania):

168. Lisabeth V. Scalzi, M.D., M.S. (1999-2002), recipient of a Fellowship Award from the
American Heart Association; currently an NIH K23 award-funded faculty member at
Pennsylvania State University, Associate Professor, interim Division Chief of Pediatric
Rheumatology, Interim Division Chief – Pediatric Rheumatology, Director of Pediatric
Rheumatology Fellowship Program
169. Frida Gudmundsdottir, M.D. (2000), *ad astra*
170. Jonathan M. Burnham, M.D., M.S.C.E. (2001-2004), recipient of a Fellowship Award
from the American College of Rheumatology; recipient of 2 Nickolett Family Awards
Program for JRA Research grants; Amgen ACR Research and Education Foundation
Pediatric Rheumatology Research Award; currently an NIH K23 award-funded faculty
member at The Children's Hospital of Philadelphia, Associate Professor, Clinical
Director of Pediatric Rheumatology, Co-Director of Lupus Integrated Nephritis Clinic
171. Esi M. DeWitt, M.D., M.S.C.E. (2002-2005), recipient of a CHORD Fellowship Award,
and an ACR/REF Rheumatology Fellowship Training Award; currently faculty at
University of Cincinnati, Associate Professor, Assistant Clinical Director
172. Bitu Arabshahi, M.D. (2003-2006), recipient of Nickolett Family Awards Program for
JRA Research grant; Travel Award recipient for abstract submitted to Scientific Meeting
of the TMJ Association, Bethesda, MD, 2004, and to EULAR meeting, Vienna, Austria,
2005; 2005 Earl J. Brewer Research Award (ACR meeting); currently on staff at Inova
Fairfax Hospital for Children, Fairfax, VA (part of the George Washington University
School of Medicine)
173. Frank Pessler, M.D., Ph.D. (2003-2007), scholarship award recipient for Cold Spring
Harbor Microarray course; recipient of a slot on the University of Pennsylvania

- Immunobiology T32 training grant; recipient of an ACR/REF Pediatric Rheumatology Research Award (2005); currently Assistant Faculty in Pediatric Rheumatology at the Technical University Dresden, University Children's Hospital, Dresden, Germany
174. Mara Becker, M.D., M.S.C.E. (2005-2006), fellow at A.I. Dupont Children's Hospital, currently Associate Professor of Pediatrics at Children's Mercy Hospitals and Clinics (University of Kansas Medical Center), Kansas City, MO, Division Director; Associate Chair of the Department of Pediatrics; Associate Professor and Vice Chair for Faculty Development, Department of Pediatrics, Duke University
175. Edward Behrens, M.D. (2004-2007), recipient of an AMGEN rheumatology fellowship award and a Nickolett Family Awards Program for JRA Research grant; 2006 Earl J. Brewer Research Award (ACR meeting); recipient of an ACR/REF Pediatric Rheumatology Research Award (2006); endowed Associate Professor of Pediatrics, Chief of Pediatric Rheumatology, University of Pennsylvania, Philadelphia, PA
176. Timothy Beukelman, M.D., M.S.C.E. (2004-2007), Ruth L. Kirschstein National Research Service Award (NRSA)/NIH; Fellows Scholar Travel Award – American College of Rheumatology; Associate Professor of Pediatrics with tenure, University of Alabama, Birmingham
177. Pam Fitch, M.D., M.S.C.E. (2005-2007), recipient of an AMGEN rheumatology fellowship award and an ACR/REF clinical investigator fellowship award, outstanding clinical research poster at CHOP 18th annual poster day 2008, Associate Professor of Pediatrics, University of Pennsylvania, Philadelphia, PA, Director of Clinical Research
178. Tracey Brock-Wright, M.D. (2005-2007), recipient of a Paula de Merieux rheumatology fellowship award and an ACR/REF physician scientist development award, outstanding clinical research poster at CHOP 18th annual poster day 2008, Associate Professor of Pediatrics, Fellowship Program Director, Interim Chief of Pediatric Rheumatology, University of Texas Southwestern, Dallas, TX
179. Eric P. Hanson, M.D. (2005-2007), Senior Clinical Fellow, Henry Metzger Scholar, Autoimmunity Branch, Immunoregulation Section, NIAMS/NIH, Bethesda, MD, Head of Immunodeficiency and Inflammation Unit; 2019 – Associate Professor, Division Director of Pediatric Rheumatology, Indiana University
180. Jay Mehta, M.D., M.S., M.Ed. (2006-2007), recipient of an ACR/REF physician scientist development award, currently Associate Professor at the University of Pennsylvania, Fellowship Program Director of Pediatric Rheumatology, Associate Program Director of Pediatrics Residency Program at Children's Hospital of Philadelphia
181. Sharon Bout-Tabaku, M.D. (2006-2007), recipient of a Paula de Merieux rheumatology fellowship award, Assistant Professor of Pediatrics, Nationwide Children's Hospital, Columbus, OH, Fellowship Program Director; 2018 – Division Chief, Pediatric Rheumatology, Sidra Medicine, Doha, Qatar

FORMER FELLOWS (University of Alabama at Birmingham):

182. UAB Adult Rheumatology Fellows: Direct supervision and education of adult rheumatology fellows during their required training in pediatric rheumatology. Fellows trained to date (2007-): Allyson McDonough, Maria Danila, Zang Song, Elizabeth

- Perkins, Bitu Shakoory, Ajoy Chhabra, Bilal Kahn, Iris Navarro, Quynh Bao, Rebecca Belsom, Archana Jain, Yong Hwang, Jenny Lin, Xena Whittier, Matthew Mullen, Randall Beyl, Aprajita Jagpal, Lindsay Neely, Lopez Corbeto (Barcelona, Spain, visiting scholar), Thao Nguyen Tran, Nada Elmagboul, Marc Collins, Amanda Schnell, Lee Day, Hamdy Ahmed, Margaret Guthrie, Fatima Alduraibi, Leslie Jackson, Nitasha Khullar, Matthew Bonds, Ryan McMonigle, Kurt Blake
183. Bitu Shakoory, M.D. (2008-2012), co-mentor for research project on the topic of macrophage activation syndrome in adults with rheumatic disorders, recipient of an ACR Distinguished Fellow award (2010), Assistant Professor of Medicine, George Washington University, Washington, DC
184. Will Sasser, M.D. (2010-2011), co-mentor for Legionella trigger vasculitis, Pediatric Pulmonary fellow, University of Alabama at Birmingham
185. Christy Bemrich-Stolz, M.D. (2010-2011), UAB Pediatric Hematology/Oncology fellow, studying heterozygous HLH mutations in secondary MAS
186. Naren Vadlamudi, M.D. (2011-2012), UAB Pediatric Gastroenterology fellow
187. Tracy Jester, M.D. (2012-2013), UAB Pediatric Gastroenterology fellow
188. Melissa Mannion, M.D., M.S.P.H. (2011-2014), UAB Pediatric Rheumatology fellow, T32 training grant recipient, 2013 ACR Distinguished Fellow Award recipient, ACR grant to attend 2014 OMERACT meeting (one of 2 adult and pediatric rheumatology fellows in US), Assistant Professor of Pediatrics at UAB
189. Megan Yanik, M.D. (2016-2018), UAB Pediatric Nephrology fellow
190. Lauren “Beth” Shipman, M.D. (2014-2017), UAB Pediatric Rheumatology fellow, Chu Family Educational Scholarship (2015); UAB CCTS Clinical and Translational Science Training Program award recipient (2016); Assistant Professor, University of Arkansas (2017-2018); Adjunct Assistant Professor, University of Florida; Pediatric Rheumatology Associates, Sacred Heart Hospital, Pensacola, FL (2020)
191. Courtney B. Crayne, M.D., M.S.P.H. (2016-2019), UAB Pediatric Rheumatology fellow, Chu Family Educational Scholarship (2017), T32 Training Program in Rheumatic and Musculoskeletal Diseases Research grant recipient (2018), elected to AOA (2019), SSPR Trainee Travel Award Recipient (2019), ACR Rheumatology Research Workshop travel awardee (2019), M.S.P.H. degree (2019), Pediatrician, Moody, AL (2020)

CURRENT FELLOWS (University of Alabama at Birmingham):

192. John M. Bridges, M.D., M.S. (2019-), UAB Combined Medicine and Pediatrics Rheumatology fellow, 2020 CCTS Clinical and Translational Science (CTS) Training Program selected participant, VERITY/Brigham course in Rheumatology Clinical Research travel award recipient 2020
193. Daniel Reiff, M.D. (2020-), Pediatric Resident Quality Improvement Award (2020)

LABORATORY POST-DOCTORAL FELLOWS

PAST FELLOWS:

194. Anna Genin, M.D., Ph.D. (2000-2015), retired, *ad astra*
195. Michael Brunner, Ph.D. (2000-2004), *ad astra*

196. Shyamala Arunachalam, Ph.D. (2003-2004), adjunct laboratory lecturer at University of North Florida
197. Rebecca Shilling, M.D. (2005), University of Chicago Immunology, KO8 Advisory committee
198. Ashley Harms, Ph.D. (2011-2015), UAB Neurosciences, Michael J. Fox Foundation grant to study MHC class II in mouse model of Parkinson disease
199. Grant Schulert, M.D., Ph.D. (2013-2015), University of Cincinnati Pediatric Rheumatology fellow

CURRENT FELLOWS:

200. Mingce Zhang, Ph.D. (2002-present), 2005 Stokes Scientific Retreat honorable mention award winner for abstract presentation; scholarship to attend 2005 International Meeting of the Institute of Human Virology (Baltimore, MD), 2007 American Association of Immunologists Junior Faculty Travel Award (Miami, FL)
201. Guangbo Chen, Ph.D. (2018-present), Stanford University, post-doctoral fellow in Mark Davis' laboratory and Prveshkumar Khatri's laboratory
202. Dr. Shawn Mahmud, M.D., Ph.D. (2018-present), University of Minnesota, Pediatric Rheumatology fellow

JUNIOR FACULTY ADVISOR/MENTOR:

203. Tim Beukelman, M.D., M.S.C.E. (2007-present), Associate Professor of Pediatrics, Division of Rheumatology, University of Alabama at Birmingham, University of Alabama Health Services Foundation General Endowment Fund Scholar Award, NIH U18 grant on safety of anti-TNF drugs (investigator), American College of Rheumatology grant, "Guidelines for the Treatment of Juvenile Idiopathic Arthritis" (PI); KL2 award, "The Risk of Serious Infection in JIA" (PI); Pfizer grant, "Usage of NSAIDs, Glucocorticoids, and DMARDs in the Treatment of Juvenile Idiopathic Arthritis in the United States" (PI); Ruth L. Kirschstein National Research Service Award (NRSA)/NIH L30
204. Peter Weiser, M.D. (2009-present), Associate Professor of Pediatrics, Division of Rheumatology, University of Alabama at Birmingham, recipient of Arthritis Foundation "My Doc Rocks" nomination for Alabama
205. Bitu Shakoory, M.D. (2010), co-mentor for research project on the topic of macrophage activation syndrome in adults with rheumatic disorders, recipient of an ACR Distinguished Fellow award (2010), Assistant Professor of Medicine, Division of Clinical Immunology and Rheumatology, University of Alabama at Birmingham, Birmingham, AL; then Assistant Professor of Medicine, Temple University, Philadelphia, PA, Society of Critical Care Medicine national meeting - Research Citation Finalist
206. Robert Lowe, M.D., Ph.D. (2011-2016), Assistant Professor of Pediatrics, Division of Rheumatology, University of Alabama at Birmingham, Kaul Pediatric Research Institute/Alabama Children's Hospital Foundation grant, "Gene Replacement Therapy for the Treatment of X-Linked Hyper-IgM Syndrome" (PI); CHRC K12 grant, "Epigenetic regulation of the CD154 gene in children and adults with lupus"; Arthritis Foundation, "Epigenetic Regulation of CD154 Gene Expression" (PI); CNIHR (NIH CFAR), "Role of FoxP3 in Blocking Transcriptional Activation of HIV-LTR in T-reg Cells" (PI); Ruth L.

- Kirschstein National Research Service Award (NRSA)/NIH L30, Clinical Assistant Professor, University of Nevada, Las Vegas (UNLV) School of Medicine
207. Matthew Stoll, M.D., Ph.D., M.S.C.S. (2011-present), Associate Professor of Pediatrics, Division of Rheumatology, University of Alabama at Birmingham, UAB SOM: Immunology, Autoimmunity, and Transplantation Strategic Effort grant, “Autoimmunity Against Enteric Antigens in Juvenile Spondyloarthritis” (PI); ACR REF grant, “Exploration of the Gut Microbiome in Spondyloarthritis” (PI); KPRI grant, “Identification of Target Antigens in Children with Spondyloarthritis” (PI); NIH/NAIMS P60, “Adaptive Immune Responses to Gut Microbiota in Juvenile & Adult Spondyloarthritis” (Co-Investigator); UAB/CCTS, “Antigen Discovery within the Gut Microbiome in Pediatric and Adult Spondyloarthritis” (PI); Friends of CARRA pilot grant, “Enteric Flora in Newly Diagnosed Spondyloarthritis: A Collaborative Study” (PI), NIH/NIEHS R21, “Interactions between AHR ligands and the intestinal microbiota in murine arthritis”, (PI)
 208. Hilary Haines, M.D. (2011-present), Assistant Professor of Pediatrics, Division of Hematology and Oncology, University of Alabama at Birmingham, Birmingham, AL
 209. Bita Shakoory, M.D. (2012-2016), Assistant Professor of Medicine, Division of Rheumatology, Temple University, Philadelphia, PA, then George Washington, University, Washington, DC, then Director, Medical Affairs, PRA (Pharmaceutical Research Associates) Health Sciences, Raleigh, NC
 210. Melissa Mannion, M.D., M.S.P.H. (2014-present), Assistant Professor of Pediatrics, Division of Rheumatology, University of Alabama at Birmingham, UAB SOM, RRF Norman B. Gaylis, MD, Clinical Research Career Scientist Development Award (2020)
 211. Nina Washington, M.D., M.P.H. (2015-2016), Assistant Professor, Division of Rheumatology, Department of Pediatrics, University of Mississippi SOM
 212. Esraa M. Elloseily, M.D., M.Sc. (2016-2018), Lecturer and Specialist (Pediatric Rheumatology), Department of Pediatrics, Assiut University, Assiut, Egypt, won best abstract/poster at 2017 James & Nancy Cassidy Symposium, Columbia, MO, currently Pediatric Resident physician at Children’s Hospital at Sacred Heart, Pensacola, FL; Resident physician scholarship to attend 2020 PRSYM meeting in New Orleans, LA
 213. Emily Smitherman, M.D., M.S.C.T.R. (2018-present), Assistant Professor of Pediatrics, Division of Rheumatology, University of Alabama at Birmingham, UAB SOM, CARRA grant recipient (2019), Lupus Foundation grant recipient (2019), RRF Medical and Graduate Student Preceptorship mentor (2020)
 214. Courtney Crayne, M.D., M.S.P.H. (2019-2020), Instructor of Pediatrics, Division of Rheumatology, University of Alabama at Birmingham, UAB SOM, RRF Career Scientist Development Award (2020), Pediatrician, Moody, AL (2020)

CLINICAL SERVICE (rotating medical students, residents, and subspecialty fellow physicians):

215. Pediatric Rheumatology Clinic, Lucile Salter Packard Children's Hospital at Stanford, attending physician one day per week, 1998-1999
216. Attending Physician on the Pediatric Rheumatology Service, Lucile Salter Packard Children's Hospital at Stanford, two months per year, 1998-1999
217. Pediatric Rheumatology Clinic, Children's Hospital of Philadelphia, attending physician one day per week, 1999-2007
218. Attending Physician on the Pediatric Rheumatology Service, Children's Hospital of Philadelphia, two months per year, 2000-2007
219. Pediatric Rheumatology Clinic, Children's Hospital of Alabama, attending physician 1.5 days per week, 2007-present
220. Attending Physician on the Pediatric Rheumatology Service, Children's Hospital of Alabama, 7-26 weeks per year, 2007-present
221. Collaborative Physician for Pediatric Nurse Practitioner, Annelle Reed, CRNP, Children's Hospital of Alabama, 2007-present
222. Attending Physician, Children's Rehabilitation Service, Children's Hospital of Alabama, once monthly, 2008-2011
223. Attending Physician, UAB Pediatric Rheumatology Fellow's Clinic, 0.5 days per week, 7-10 weeks per year, 2011-present

MAJOR LECTURES AND VISITING PROFESSORSHIPS (International bolded):

- March 1987 “Activation of Peripheral T3+, Lyt2-, L3T4- T-cells Using Anti-T3 mAb” – Federation of American Societies for Experimental Biology (FASEB) Meeting, Washington, DC
- March 1997 “T Cell Priming Enhances *IL-4* Gene Expression by a NFAT-Dependent Mechanism” - European Rheumatology Research Workshop, **Brest, France**
- May 1997 “T Cell Priming Increases *IL-4* Gene Expression by Selectively Enhancing NFAT Activity Relative to AP-1” - University of Cincinnati, OH
- March 1998 “Fas L ‘eye’ gand” - Park City IV: Pediatric Rheumatology into the Next Century, Park City, UT
- May 1998 “Decreased NFAT1: A Potential Mechanism for Decreased Cytokine Production by Neonatal T Cells” - Pediatric Academic Societies’ Annual Meeting, New Orleans, LA
- July 1998 “The Role of NFAT Transcription Factors in Cytokine and HIV Gene Regulation” - **University of Birmingham, United Kingdom**
- August 1998 “The Role of NFAT Transcription Factors in Cytokine and HIV Gene Regulation in Normal Human CD4 T Cells” - Pediatric Immunology Grand Rounds, Stanford University, Palo Alto, CA
- Oct. 1998 “NFAT: Role in Effector T Cell Function and HIV Pathogenesis” - Rheumatology Grand Rounds, Washington University, St. Louis, MO
- Oct. 1998 “Role of NFAT Transcription Factors in Cytokine and HIV Gene Regulation in Normal Human CD4 T Cells” - University of Cincinnati, OH
- Nov. 1998 “Identification of an Enhancer Element Located Downstream of the CD40-Ligand Gene” - American College of Rheumatology National Scientific Meeting, San Diego, CA
- May 1999 “Role of NFAT Transcription Factors in Cytokine and HIV Gene Regulation in Normal Human CD4 T Cells” - University of Pennsylvania, Philadelphia, PA
- Sept. 1999 “The Role of Nuclear Factor of Activated T Cells in Cytokine and HIV Gene Regulation in Normal Human CD4 T Cells” - Howard Hughes Medical Institute, Chevy Chase, MD
- Feb. 2000 “Role of NFAT in T Cell Activation” - NFAT mini symposium, Children’s Hospital of Philadelphia, PA
- Nov. 2000 “Role of Transcription Factors in Cytokine and HIV-1 Gene Transcription in Primary CD4 T Lymphocytes” - Stokes Town Meeting, Abramson Research Center, Children’s Hospital of Philadelphia, PA

- June 2001 “Regulation of *CD154* in Systemic Lupus Erythematosus” - Annual European Congress of Rheumatology, **Prague, Czech Republic**
- June 2001 “Regulation of *CD154* in Systemic Lupus Erythematosus” - Institute of Rheumatology, **Prague, Czech Republic**
- June 2001 “Regulation of *CD154* in Systemic Lupus Erythematosus” - Karolinska Institute, **Stockholm, Sweden**
- June 2001 “Regulation of *CD154* in Systemic Lupus Erythematosus” - Kennedy Institute of Rheumatology, **London, United Kingdom**
- Nov. 2001 “Generation of Conditional *NFAT1* Transgenic Mice” - American College of Rheumatology National Scientific Meeting, San Francisco, CA
- Jan. 2002 “Identification of a Novel GATA-Regulated *CD154* Transcriptional Enhancer” - SLE: Targets for New Therapeutics, Bethesda, MD
- April 2002 “Identification of a Novel GATA-Regulated *CD154* Transcriptional Enhancer” - Experimental Biology Annual National Meeting, New Orleans, LA
- June 2002 “A Novel GATA-Regulated *CD154* Transcriptional Enhancer” - EULAR International Meeting, **Stockholm, Sweden**
- Sept. 2002 “Identification of a Novel GATA-Regulated *CD154* Transcriptional Enhancer”, University of Pennsylvania, School of Dental Medicine, Philadelphia, PA
- Oct. 2002 “Cytokine and HIV-1 Transcription by NFAT Proteins in the Neonate” - Neonatology Research Seminar Series, Children’s Hospital of Philadelphia, PA
- March 2003 “Systemic Lupus Erythematosus and *CD154* Regulation” - Rheumatology Grand Rounds, Albert Einstein Medical School, Philadelphia, PA
- March 2003 “*CD154* Regulation and Lupus” - University of Medicine and Dentistry of New Jersey, Newark, NJ
- March 2003 “Regulation of *CD154* in Pediatric Systemic Lupus Erythematosus” - Pediatric Rheumatology International Meeting, Snowmass, CO
- May 2003 “Identification of a Novel GATA-Regulated *CD154* Transcriptional Enhancer” - Pediatric Academic Societies’ Annual Meeting, Seattle, WA

- May 2003 “*CD154* Regulation and Lupus” - Immunology Seminar Series, Dartmouth Medical School, Lebanon, NH
- May 2003 “Juvenile Connective Tissue Diseases” - Rheumatology Grand Rounds, Dartmouth Medical School, Lebanon, NH
- June 2003 “Egr-1 Regulates *CD154* Transcription” - Arthritis Research Conference, Keystone, CO
- Oct. 2003 “Egr-1 Regulates *CD154* Transcription” - American College of Rheumatology National Scientific Meeting, Orlando, FL
- March 2004 “Immunosuppression for the Immunosuppressed, Treating HIV-1 with Cyclosporin A” - Translational Immunology Seminar Series, University of Pennsylvania, Philadelphia, PA
- May 2004 “Regulation of *CD154* in Primary CD4 T Cells” - Pulmonary Medicine Basic Science Lecture Series, Children’s Hospital of Philadelphia, PA
- Oct. 2004 “Treatment of TMJ Arthritis by Corticosteroid Joint Injection in Children with Chronic Arthritis” - American College of Rheumatology National Scientific Meeting, San Antonio, TX
- Nov. 2004 “Regulation of *CD154* in Lupus” - University of Chicago, Pediatric Grand Rounds, Chicago, IL
- Nov. 2004 “Corticosteroid Injection of Temporomandibular Joints in Children with JIA” - Children’s Hospital of Illinois, Peoria, IL
- Jan. 2005 “*CD154* and Lupus” - University of Pennsylvania Lupus Research Working Group, Philadelphia, PA
- April 2005 “Gene Therapy for X-linked Hyper-IgM Syndrome” - Stokes Scientific Retreat, American College, Bryn Mawr, PA
- June 2005 “c-maf and NFAT2 Cooperate to Augment HIV-1 Transcription in T-helper-2 Cells” - Pulmonary Medicine Basic Science Lecture Series, Children’s Hospital of Philadelphia, PA
- Nov. 2005 “Update on the Treatment of Juvenile Idiopathic Arthritis – 2005” - ACR Clinical Symposium, American College of Rheumatology National Scientific Meeting, San Diego, CA
- Dec. 2005 “A Signal Achievement in the Treatment of Arthritis” - Philadelphia Rheumatism Society, Philadelphia, PA

- Jan. 2006 “Inhibition of *NFAT2* Expression by FOXP3” - Lymphocyte Activation and Signaling, Keystone Symposia, short lecture during plenary session, Steamboat Springs, CO
- April 2006 “From Hyper-IgM Syndrome to Systemic Lupus Erythematosus, a Spectrum of CD154 Expression” - Rheumatology Grand Rounds, Albert Einstein Medical School, Philadelphia, PA
- April 2006 “From Hyper-IgM Syndrome to Systemic Lupus Erythematosus, a Spectrum of CD154 Expression” - Vaccines and Immune Therapies Research Affinity Group, Joseph Stokes, Jr. Institute, Children’s Hospital of Philadelphia, Philadelphia, PA
- April 2006 “T Cell-Directed Novel Therapeutics for Sjogren Syndrome” - IXth International Symposium on Sjogren’s Syndrome, Washington, DC
- May 2006 “From Immunodeficiency to Autoimmunity: The Role of CD4 T Cell Transcription Factors in Disease” - Keynote Speaker at Department of Medicine Residents Research Day, UMDNJ – New Jersey Medical School in Newark, NJ
- July 2006 “Temporomandibular Joint Arthritis in Juvenile Idiopathic Arthritis: The Forgotten Joint” - Pediatric Grand Rounds, Children’s Hospital of Alabama, Birmingham, AL
- July 2006 “From Hyper-IgM Syndrome to Systemic Lupus Erythematosus, a Spectrum of CD154 Expression” - Rheumatology Conference, University of Alabama at Birmingham, AL
- Aug. 2006 “Temporomandibular Joint Arthritis in Juvenile Idiopathic Arthritis: The Forgotten Joint” - Pediatric Grand Rounds, Children’s Hospital and Regional Medical Center, Seattle, WA
- Aug. 2006 “Acquired and Congenital Immunodeficiency: HIV and FoxP3” - University of Washington, Seattle, WA
- Nov. 2006 “Inhibition of *NFAT2* Transcription by the Regulatory T Cell Transcription Factor FOXP3” - ACR/EULAR Study Group, American College of Rheumatology National Scientific Meeting, Washington, DC
- Dec. 2006 “*CD154* Dysregulation in SLE” - Rheumatology Conference, University of Michigan, Ann Arbor, MI
- Feb. 2007 “*CD154* Dysregulation in SLE” - Rheumatology Grand Rounds, Vanderbilt University, Nashville, TN

- July 2007 “Genetics and Juvenile Arthritis” - American Juvenile Arthritis Organization (AJAO) National Conference, Hershey, PA
- Oct. 2007 “Temporomandibular Joint Arthritis in Juvenile Idiopathic Arthritis: The Forgotten Joint” - 52nd Annual Lowe Conference on Rheumatic Diseases, Camp McDowell, AL
- Feb. 2008 “Inhibition of *NFAT2* Transcription by the Regulatory T Cell Transcription Factor FOXP3” - Opportunities in Human Immunology lecture series, University of Alabama at Birmingham, Birmingham, AL
- April 2008 “Inhibition of *NFAT2* expression by FOXP3” - Experimental Biology Annual National Meeting, San Diego, CA
- April 2008 “Update on JIA Pathogenesis and Treatment” - ACR State-of-the-Art Clinical Symposium, Chicago, IL
- April 2008 “Practical Issues for Adolescents with JIA Transitioning to Adulthood” - ACR State-of-the-Art Clinical Symposium, Chicago, IL
- May 2008 “Current and Future Therapies for HLH/MAS” - APS/SPR National Scientific Meeting, Honolulu, HI
- July 2008 “Inhibition of *NFAT2* Transcription by the Regulatory T Cell Transcription Factor FOXP3” - T Cell Biology Group, University of Alabama at Birmingham, Birmingham, AL
- Sept. 2008 “Be Afraid, Be Very Afraid of Macrophage Activation Syndrome” - Pediatric Grand Rounds, Children’s Hospital of Alabama, Birmingham, AL
- Sept. 2008 “FOXP3 and *NFAT2*, Transcription Factors with Competing Interests” - Program in Immunology Lecture Series, University of Alabama at Birmingham, Birmingham, AL
- Nov. 2008 “Be Afraid, Be Very Afraid of Macrophage Activation Syndrome” - Pediatric Grand Rounds, Huntsville Hospital for Women and Children, Huntsville, AL
- Dec. 2008 “Transcription Factors Involved in Prolonged *CD154* Expression in Systemic Lupus Erythematosus” - Children’s Health Investigative Forum (CHIF), Children’s Hospital of Alabama, Birmingham, AL
- Feb. 2009 “Be Afraid, Be Very Afraid of Macrophage Activation Syndrome” - Rheumatology Grand Rounds, Hospital for Special Surgery/Cornell University, New York, NY

- April 2009 “Sarcoidosis, a Master Imitator with Poly-organ Involvement” - Children’s Hospital of Alabama Grand Rounds, Birmingham, AL
- June 2009 “TMJ in JIA, the Most Frequently Used Joint is the Most Commonly Involved” - Annual European Congress of Rheumatology, **Copenhagen, Denmark**
- Oct. 2009 “Treatment of MAS in sJIA” - Macrophage Activation Syndrome Study Group, American College of Rheumatology National Scientific Meeting, Philadelphia, PA
- Nov. 2009 “CD4 T Cell Host Transcription Factors Usurped by HIV-1” - Children’s Health Investigative Forum (CHIF), Children’s Hospital of Alabama, Birmingham, AL
- July 2010 “JIA & Jaw Issues” - American Juvenile Arthritis Organization (AJAO) National Conference, Philadelphia, PA
- Aug. 2010 “Be Afraid, Be Very Afraid of Macrophage Activation Syndrome” – “Ralph V. Platou, MD, Lecture” - Pediatric Grand Rounds, Tulane School of Medicine, New Orleans, LA
- Aug. 2010 “Temporomandibular Joint Arthritis in Juvenile Idiopathic Arthritis: The Forgotten Joint” - Pediatric Noon Conference, Tulane School of Medicine, New Orleans, LA
- Sept. 2010 “Prolonged CD154 Expression on Activated Lupus CD4 T Cells: A Question of Transcriptional Regulation” - Skin Diseases Research Center (SDRC) Seminar Series, University of Alabama at Birmingham, Birmingham, AL
- Nov. 2010 “TMJ Arthritis and Intraarticular Corticosteroid Injections” - Juvenile Arthritis Workgroup (JAW), American College of Rheumatology National Scientific Meeting, Atlanta, GA
- Nov. 2010 “IL-1 Blockade for Treatment of Macrophage Activation Syndrome” - ACR/EULAR Study Group, American College of Rheumatology National Scientific Meeting, Atlanta, GA
- Feb. 2011 “Gene Therapy for X-linked Hyper IgM Syndrome” - Children’s Health Investigative Forum (CHIF), Children’s Hospital of Alabama, Birmingham, AL
- March 2011 “Systemic Arthritis in Children” - Pediatric Rheumatology: An Update for Clinicians, NYU Langone Medical Center, New York, NY

- April 2011 “The TMJ Survey Results – How Pediatric Rheumatologists Approach TMJ Arthritis” - EUROtmJOINT, 3rd International Conference of TMJ Arthritis in Children with JIA, **Kiel, Germany**
- April 2011 “TMJ Diagnostics and Treatment - the American Perspective” - EUROtmJOINT, 3rd International Conference of TMJ Arthritis in Children with JIA, **Kiel, Germany**
- April 2011 “Prolonged CD154 Expression on Activated Lupus CD4 T Cells: A Question of Transcriptional Regulation” - Pediatric Grand Rounds, Children’s Hospital of Alabama, Birmingham, AL
- July 2011 “JIA & Jaw Issues” - American Juvenile Arthritis Organization (AJAO) National Conference, Crystal City, VA
- July 2011 “Prolonged CD154 Expression on Activated Lupus CD4 T Cells: A Question of Transcriptional Regulation” - Venenum Distinguished Speaker Seminar Series, HUMIGEN, Hamilton, NJ
- Aug. 2011 “Macrophage Activation Syndrome: Genetics and Therapy” - Children’s Health Investigative Forum (CHIF), Children’s Hospital of Alabama, Birmingham, AL
- Nov. 2011 “Be Afraid, Be Very Afraid of Macrophage Activation Syndrome” - Medicine Grand Rounds, University of Alabama at Birmingham SOM, Birmingham, AL
- Nov. 2011 “Prevalence of TMJ Arthritis in non-JIA Chronic Arthritis Patients” - Juvenile Arthritis Workgroup (JAW), American College of Rheumatology National Scientific Meeting, Chicago, IL
- Nov. 2011 “The Scope of Secondary Macrophage Activation Syndrome” - Macrophage Activation Syndrome Study Group, American College of Rheumatology National Scientific Meeting, Chicago, IL
- March 2012 “A human *CD154* BAC transgenic mouse to explore lupus and XHIM” - Humanized Mouse Models of Immunological Diseases Symposium, UAB Comprehensive Arthritis, Musculoskeletal Autoimmunity Center, Birmingham, AL
- March 2012 “Pediatric Sjogren Disease” - Birmingham area Sjogren Support Group, National Sjogren Foundation, Birmingham, AL
- April 2012 “Be Afraid, Be Very Afraid of Macrophage Activation Syndrome” - Pediatric Grand Rounds, University of Miami, Leonard M. Miller School of Medicine, Miami, FL

- April 2012 “Temporomandibular Joint Arthritis in Pediatric Inflammatory Arthropathies” - Pediatric Research Seminar, University of Miami, Leonard M. Miller School of Medicine, Miami, FL
- May 2012 “Developing the Researcher’s Toolkit” - Health Care Leadership Academy graduation, University of Alabama at Birmingham, Birmingham, AL
- May 2012 “FOXP3 and NFAT2, Transcription Factors with Competing Interests” - Research in Progress Seminar Series, UAB Comprehensive Musculoskeletal and Autoimmunity Center, Birmingham, AL
- June 2012 “Be Afraid, Be Very Afraid of Macrophage Activation Syndrome” - Pediatric Grand Rounds, State University of New York (SUNY) at Stony Brook, NY
- June 2012 “Temporomandibular Joint Arthritis in Pediatric Inflammatory Arthropathies” - Pediatric Research Seminar, State University of New York (SUNY) at Stony Brook, NY
- July 2012 “Temporomandibular Joint Arthritis (TMJ) in Childhood Arthritis” - American Juvenile Arthritis Organization (AJAO) National Conference, St. Louis, MO
- Sept. 2012 “HLH and Burkitt’s Lymphoma” - Third Annual HLH Boot Camp, University of Cincinnati, OH
- Nov. 2012 “Rapid and Effective Response to Immunosuppression in Treating Macrophage Activation Syndrome Associated with a Heterozygous Dominant Negative Mutation in *RAB27A* Leading to Decreased Cytolytic Capacity” - American College of Rheumatology National Scientific Meeting, Washington, DC
- Nov. 2012 “Be Afraid, Be Very Afraid of Macrophage Activation Syndrome” - 2012 ACR/EULAR Exchange Program Participants Colloquium, NIAMS, National Institutes of Health, Bethesda, MD
- Nov. 2012 “Be Afraid, Be Very Afraid of Macrophage Activation Syndrome” - Rheumatology Rounds, Johns Hopkins University, Baltimore, MD
- Nov. 2012 “Be Afraid, Be Very Afraid of Macrophage Activation Syndrome” - ACR/EULAR Exchange Program Participants Colloquium, Feinstein Institute for Medical Research, Manhasset, NY
- Dec. 2012 “5 Years Later, The Vision is Realized: Solidifying Pediatric Rheumatology in Alabama” - Arthritis Foundation National Annual Meeting and Volunteer Leadership Conference, Colorado Springs, CO [presented as video in my absence]

- Jan. 2013 “Update on the Treatment of Juvenile Idiopathic Arthritis in the Age of Biologics” - Blue Cross Blue Shield of Alabama, Birmingham, AL
- March 2013 “Immunomodulation of Post-Myocardial Infarction Cardiac Repair” - UAB Immunology, Autoimmunity and Transplantation Steering Committee, Birmingham, AL
- March 2013 “Be Afraid, Be Very Afraid of Macrophage Activation Syndrome” - Research in Progress Seminar Series, UAB Comprehensive Musculoskeletal and Autoimmunity Center, Birmingham, AL
- April 2013 “Development of an Intraarticular Corticosteroid Injection Protocol for TMJ Arthritis” - EUROtmJOINT Meeting, **Aarhus, Denmark**
- April 2013 “Development of International Consensus and Standards for TMJ MRI Findings” - EUROtmJOINT Meeting, **Aarhus, Denmark**
- April 2013 “Intraarticular Corticosteroid Treatment of TMJ arthritis in Children with Juvenile Arthritis” - EUROtmJOINT Meeting, **Aarhus, Denmark**
- May 2013 “Blurring of the Distinction between Hemophagocytic Lymphohistiocytosis and Macrophage Activation Syndrome” - American Association of Immunologists (AAI) Annual Scientific Meeting, Honolulu, HI
- June 2013 “The Blurring of the Distinction between HLH and MAS” - European League Against Rheumatism (EULAR) Annual Scientific Meeting, **Madrid, Spain**
- June 2013 “Be Afraid, Be Very Afraid of Macrophage Activation Syndrome” - Karolinska Institute, **Stockholm, Sweden**
- Oct. 2013 “Be Afraid, Be Very Afraid of Macrophage Activation Syndrome” - Rheumatology Medicine Grand Rounds, University of Chicago, Chicago, IL
- Oct. 2013 “Temporomandibular Joint Arthritis in Juvenile Idiopathic Arthritis: The Forgotten Joint” - AAOMS (American Association of Oral and Maxillofacial Surgeons) Annual Meeting, Orlando, FL
- Oct. 2013 “Temporomandibular Joint Arthritis in Juvenile Idiopathic Arthritis: The Forgotten Joint” - Surgery Grand Rounds, University of Alabama at Birmingham, Birmingham, AL
- Oct. 2013 “Developing a Scoring System to Assess TMJ Arthritis by MRI in Children with JIA” - American College of Rheumatology National Scientific Meeting, San Diego, CA

- Nov. 2013 “TMJ Arthritis in Children, A Real Jaw Breaker” - Pediatric Grand Rounds, Children’s Hospital of Alabama, Birmingham, AL
- Dec. 2013 “Blurring of the Distinction between Hemophagocytic Lymphohistiocytosis and Macrophage Activation Syndrome” - Program in Immunology Lecture Series, University of Alabama at Birmingham, Birmingham, AL
- Feb. 2014 “FOXP3 and HIV” - Research in Progress Seminar Series, UAB Comprehensive Musculoskeletal and Autoimmunity Center, Birmingham, AL
- April 2014 “Intraarticular Infliximab Therapy of the TMJ in Children with JIA: Safety and Efficacy” - EUROtmJOINT Meeting, **Tampere, Finland**
- May 2014 “Be Afraid, Be Very Afraid of Macrophage Activation Syndrome” - Pediatric Grand Rounds, University of Minnesota, Minneapolis, MN
- July 2014 “TMJ Arthritis in Children with JIA – A Common Nuisance” - Pediatric Rheumatology Rounds, Royal Children’s Hospital, **Melbourne, Australia**
- July 2014 “Be Afraid, Be Very Afraid of Macrophage Activation Syndrome” - Pediatric Grand Rounds, Monash Children’s Hospital, **Melbourne, Australia**
- Oct. 2014 “Treatment of MAS: Immunomodulation versus Chemotherapy” - Histiocyte Society Annual Scientific Meeting, **Toronto, ON**
- Nov. 2014 “Treatment of TMJ Arthritis in JIA: What We Know and What We Don’t” - American College of Rheumatology National Scientific Meeting, Boston, MA
- June 2015 “Be Afraid, Be Very Afraid of Macrophage Activation Syndrome” - Pediatric Grand Rounds, Albany Medical College, Albany, NY
- July 2015 "Macrophage Activation Syndrome Genetic Susceptibility and Environmental Triggers: from Perforin to Ebola" - Rheumatology Grand Rounds, Hospital for Special Surgery/Cornell University, New York, NY
- August 2015 “Macrophage Activation Syndrome – Kill or Be Killed” - Annual Conference of the Rheumatology Nurses Society, Orlando, FL
- Feb. 2016 “Macrophage Activation Syndrome – Kill or Be Killed” - University of Iowa, Pediatric Grand Rounds, Iowa City, IA
- March 2016 “Macrophage Activation Syndrome – Kill or Be Killed” - University of Chicago, Pediatric Grand Rounds, Chicago, IL

- May 2016 “Macrophage Activation Syndrome Lurking in Sepsis” - SOBI Advisory Board Meeting, Washington, DC
- May 2016 “Macrophage Activation Syndrome – Kill or Be Killed” - University of Washington, Juvenile Arthritis Research Symposium: A Tribute to Dr. Carol Wallace, Seattle, WA
- May 2016 “A Heterozygous *RAB27A* Mutation Causes Delayed Cytolytic Granule Polarization and Hemophagocytic Lymphohistiocytosis in 2 Unrelated Teenagers” - American Association of Immunologists (AAI) Annual Scientific Meeting, Seattle, WA
- May 2016 “HIV-1 Transcription and Latency in CD4 T Cell Subsets” - University of Alabama at Birmingham HIV Basic Sciences Research Group, Birmingham, AL
- Aug. 2016 “Macrophage Activation Syndrome – Kill or Be Killed” - Temple University, Rheumatology Grand Rounds, Philadelphia, PA
- Aug. 2016 “Systemic Juvenile Idiopathic Arthritis and Autoinflammation – We’ve Come a Long Way, Baby” - Juvenile Arthritis National Conference, Philadelphia, PA
- Nov. 2016 “Macrophage Activation Syndrome – Kill or Be Killed” - Pediatric Grand Rounds, Children’s Hospital of Alabama, Birmingham, AL
- Nov. 2016 “The Best in Translational Science, 2016” - Pediatric Rheumatology Year in Review, American College of Rheumatology National Scientific Meeting, Washington, DC
- Nov. 2016 “Heterozygous Mutations Resulting in Defects in Cytolytic Vesicle Trafficking in Macrophage Activation Syndrome” - American College of Rheumatology National Scientific Meeting, Washington, DC
- April 2017 “Pediatric Arthralgia Work-Up for Arthritis” - Jefferson County Pediatric Society, Hoover, AL
- May 2017 “Genetic Defects in Cytolysis in Patients with Macrophage Activation Syndrome Enrolled in a Clinical Trial to Explore Interleukin-1 Blockade Therapy” - UAB Center for Genomic Medicine Symposium, HudsonAlpha, Huntsville, AL
- May 2017 “Macrophage Activation Syndrome – Kill or Be Killed” - UAB Endocrinology, Diabetes and Metabolism Grand Rounds, Birmingham, AL
- Sept. 2017 “Macrophage Activation Syndrome – Kill or Be Killed” - James and Nancy Cassidy Endowed Lecture in Pediatric Rheumatology, University of Missouri, Columbia, MO
- Oct. 2017 “Macrophage Activation Syndrome – Kill or Be Killed” - Genomic Medicine Seminar Series with HudsonAlpha, University of Alabama at Birmingham, Birmingham, AL

- Oct. 2017 “A Randomized and Double-Blinded Clinical Trial of Recombinant Human Interleukin-1 Receptor Antagonist to Treat Macrophage Activation Syndrome in Children and Adults” - NextGen Meds in SJIA & MAS Conference, Washington, DC
- Nov. 2017 “Pediatric Rheumatology, Why It is Important to Me” - Student and Resident Experience, American College of Rheumatology National Scientific Meeting, San Diego, CA
- May 2018 “Novel *UNC13D* Intronic Variant Altering a NFκB Enhancer in a Patient with Recurrent Macrophage Activation Syndrome and Systemic Juvenile Idiopathic Arthritis” - American Association of Immunologists (AAI) Annual Scientific Meeting, Austin, TX
- June 2018 “Macrophage Activation Syndrome – Kill or Be Killed” - Arizona United Rheumatology Alliance (AURA) annual meeting, Sedona, AZ
- Aug. 2018 “Macrophage Activation Syndrome – Kill or Be Killed” - Department of Immunology Lecture Series/Paediatric Rheumatology Grand Rounds, University of Toronto/The Hospital for Sick Children, **Toronto, ON**
- Sept. 2018 “Temporomandibular Joint Arthritis in Juvenile Idiopathic Arthritis – The Last Frontier” - James and Nancy Cassidy Endowed Lecture in Pediatric Rheumatology, University of Missouri, Columbia, MO
- Oct. 2018 “Defining the Normal Appearance of the TMJ by MRI in Juvenile Idiopathic Arthritis” - Juvenile Arthritis Workgroup (JAW), American College of Rheumatology National Scientific Meeting, Chicago, IL
- Nov. 2018 “An Overview of Pediatric Rheumatology” - Clinical Laboratory Manager Association (CLMA) & UAB Clinical Laboratory Management Symposium Joint Meeting, UAB School of Health Professions, Birmingham, AL
- Nov. 2018 “Systemic Juvenile Idiopathic Arthritis: Novel Therapies Provide Hope for this Once Frequently Devastating Disease” - Course Director, CME/CE course, Birmingham, AL
- Jan. 2019 “Macrophage Activation Syndrome – Kill or Be Killed” - Program in Immunology Lecture Series, University of Alabama at Birmingham, Birmingham, AL
- March 2019 “Macrophage Activation Syndrome: Diagnosis, Genetics, & Treatment” - Pediatric Rheumatology of the South (PRoS) Inaugural Meeting, UAB, Birmingham, AL
- April 2019 “Macrophage Activation Syndrome – Kill or Be Killed” - Arkansas Rheumatology Association (ARA) Annual Scientific Meeting, Little Rock, AR
- Sept. 2019 “Macrophage Activation Syndrome – Kill or Be Killed” - Rheumatology Society of New Mexico (RSNM) 1st Annual Meeting, Albuquerque, NM

- Sept. 2019 “Macrophage Activation Syndrome – Kill or Be Killed” - Pediatric Rheumatology of the South (PRoS) Meeting, Emory University, Atlanta, GA
- Oct. 2019 “Tracking Down Cytokine Storm Syndromes” - Pediatric Grand Rounds, Children’s Hospital of Alabama, Birmingham, AL
- Nov. 2019 “Current Approaches to Diagnosing and Treating Cytokine Storm Syndromes” - Changing Treatment Landscape for MAS/sHLH Advisory Board, SOBI, Atlanta, GA
- Nov. 2019 “IL-1 Blockade for Macrophage Activation Syndrome (MAS)” - American College of Rheumatology National Scientific Meeting, Atlanta, GA
- Nov. 2019 “Macrophage Activation Syndrome – Not Just for Children” - Arthritis Foundation and Local (community and academic) Adult and Pediatric Rheumatologists, Denver, CO
- Nov. 2019 “Macrophage Activation Syndrome – Kill or Be Killed” - University of Colorado Rheumatology Grand Rounds, Aurora, CO
- Dec. 2019 “Macrophage Activation Syndrome – Kill or Be Killed” - University of Mississippi Adult Rheumatology Grand Rounds, Jackson, MS
- Dec. 2019 “Macrophage Activation Syndrome – Kill or Be Killed” - University of Mississippi Pediatric Grand Rounds, Jackson, MS
- Feb. 2020 “Cytokine Storm Syndrome – Kill or Be Killed” - University of Alabama at Birmingham ECMO Education Day, Birmingham, AL
- March 2020* “Treatment of Juvenile Idiopathic Arthritis: A Revolution in Care” - Louisiana State University (LSU) Pediatric Grand Rounds, Children’s Hospital New Orleans, LA
- March 2020* “Macrophage Activation Syndrome – Kill or Be Killed” - LSU Adult Rheumatology Grand Rounds, New Orleans, LA
- March 2020* “Cytokine Storm Syndrome – Kill or Be Killed” - University of Alabama at Birmingham PICU Nursing Education Day, Birmingham, AL
- March 2020# “Cytokine Storm Syndrome and COVID-19” - On air broadcast on “This Morning” TBS eFM (101.3 MHz), **Soeul, South Korea** (March 29, 5:30-5:45PM CDT)
- April 2020# “Cytokine Storm Syndrome” - DocTalk Live with Dr. Brad Goodman, online podcast (April 1, 2020, 4:15-4:45PM CDT). <https://app.belive.tv/76350/guest>

- April. 2020* “Cytokine Storm Syndrome – Kill or Be Killed” - University of Alabama at Birmingham PICU Nursing Education Day 2, Birmingham, AL
- April. 2020* “Cytokine Storm Syndrome – Kill or Be Killed” - University of Alabama at Birmingham Pediatric Hematology/Oncology Division, Birmingham, AL
- April 2020# “The COVID-19 Cytokine Storm” - Ophthalmology Off the Grid, podcast with Dr. Gary Wortz, April 8, 2020
- April 2020# “Cytokine Storm Syndrome – Kill or Be Killed” - Pediatric Rheumatology Society of India, **Bangalore, India**
- April 2020# “Dr. Randy Cron, Pediatric Rheumatology Cytokine Storm Expert” - Interview with Dr. Anton Titov, DiagnosticDetectives.com, April 9, 2020. (10 part videos). <https://diagnosticdetectives.com/interview-dr-randy-cron/>
- April 2020# “Coronavirus and the Immune System” - On air broadcast with Julio Sanchez Cristo, W Radio, a Spanish-language radio network, **Bogota, Columbia** (April 10, 2020, 11:00-11:15AM CDT)
- April 2020# “Cytokine Storm” - Radio ideaXme interview with Ira Pastor, April 14, 2020. https://www.youtube.com/watch?v=5Evjz8uGDvk&t=1s&fbclid=IwAR1MC6meaCNudGBDYoROjQ_W2MnKchuRvEUwUL1FUlt6MjBZdwnKldE2SRQ
- April 2020# “Cytokine Storm Syndrome and COVID-19” - On air broadcast on “This Morning” TBS eFM (101.3 MHz), **Soeul, South Korea** (April 18, 7:10-7:25PM CDT)
- April 2020# “Role of Anakinra in Cytokine Storm Syndrome” - Project ECHO, Arizona Complete Health, Tempe, AZ
- April 2020* “The Temporomandibular Joint in JIA: What Now?” - Pediatric Rheumatology Symposium (PRSYM), New Orleans, LA
- April 2020* “Characterization of *DOCK8* as a Novel Gene Associated with Cytokine Storm Syndrome” - Pediatric Rheumatology Symposium (PRSYM), New Orleans, LA
- May 2020# “Pediatric Rheumatology, Immunology” - Finding Genius Podcast hosted by Richard Jacobs, produced by Lucian Gutica. <https://findinggeniuspodcast.com/podcasts/cytokine-storms-in-rheumatic-diseases-and-covid-19-randy-cron-md-phd-director-of-pediatric-rheumatology-uab-hospital/>

- May 2020[#] “The Role of the Immune System in Fighting COVID-19” - VuMedi webconference hosted by Roman Giverts. <https://www.vumedi.com/video/covid-19-cytokine-storm-syndrome-does-genetic-predisposition-increase-chances-of-hospitalization-or-/>
- May 2020[#] “Cytokine Storm Syndrome – Kill or Be Killed” - Internal Medicine Grand Rounds, Detroit Medical Center Huron Valley-Sinai Hospital, Wayne State University, Commerce, MI
- May 2020[#] “Cytokine Storm Syndrome and COVID-19” - American Association for Clinical Chemistry (AACC) webinar
- May 2020^{*} “Cytokine Storm Syndrome – Kill or Be Killed” - University of Alabama at Birmingham Pathology Grand Rounds, Birmingham, AL
- May 2020[#] “The Cytokine Storm Syndrome: What Clinicians Need to Know Now” - Medscape Livestream event, speaker and moderator
<https://www.medscape.org/viewarticle/932370>
- May 2020[#] “Cytokine Storm Syndrome and COVID-19” - Rutgers University/Robert Wood Johnson Medical School, Pediatric Grand Rounds, New Brunswick, NJ
- May 2020[#] “Cytokine Storm Syndrome and COVID-19” - Tuesday Nite Rheumatology – Grand Rounds, RheumNow.com, hosted by Dr. Jack Cush (executive editor)
<https://rheumnow.com/news/tnr-grand-rounds-cytokine-storm-syndromes>
- June 2020[#] “COVID-19 Related Kawasaki Disease-like Illness and Hyperinflammation” - Virtual meeting of CARRA Kawasaki Disease workgroup, panelist
- June 2020^{*} “Macrophage Activation Syndrome – Kill or Be Killed” - Pediatric Rheumatology Cassidy Conference for Pediatricians, celebrating the 30th Anniversary of Camp Jambalya Jubilee, Shriners Hospitals for Children, Shreveport, LA
- June 2020[#] “Rationale for Effectiveness of Cytokines in Early Disease, and Cytokine Inhibition in Late COVID-19” - “The Role of Cytokines in COVID-19 Disease”, NIH/FDA Immunology and Cytokine Interest Groups minisymposium
<https://nci.rev.vbrick.com/sharevideo/ebfaa350-bab0-4b46-80e2-804b9f08e1ca>
- June 2020[#] “Cytokine Storm Syndrome: Kill or Be Killed” - Genetic Engineering and Biotechnology News (GEN) webinar
https://liebertpub-my.sharepoint.com/personal/jbuguliskis_liebertpub_com/_layouts/15/onedrive.aspx?id=%2Fpersonal%2Fjbuguliskis%5Fliebertpub%5Fcom%2FDocuments%2F0

[1%2E%20GEN%20WEBINARS%2FBio%2Dtechne%20Webinar%2FFinal%20MP4%2F2020%5F06%5F24%5FBioTechne%5FFINAL%2Emp4&parent=%2Fpersonal%2Fjbuguliskis%5Fliebertpub%5Fcom%2FDocuments%2F01%2E%20GEN%20WEBINARS%2FBio%2Dtechne%20Webinar%2FFinal%20MP4&originalPath=aHR0cHM6Ly9saWViZXJ0cHVlLW15LnNoYXJlcG9pbmQuY29tLzpzOj9wL2pidWd1bGlza2lzL0VRT2dQMDd5eWh0S2gyTkdxTj01NDJNQPem4tS0hYd1JLNUZyUjhhajF6OUE_cnRpbWU9eTIYbFIxRVUyRWc](https://www.youtube.com/watch?v=MP4%2F2020%5F06%5F24%5FBioTechne%5FFINAL%2Emp4&parent=%2Fpersonal%2Fjbuguliskis%5Fliebertpub%5Fcom%2FDocuments%2F01%2E%20GEN%20WEBINARS%2FBio%2Dtechne%20Webinar%2FFinal%20MP4&originalPath=aHR0cHM6Ly9saWViZXJ0cHVlLW15LnNoYXJlcG9pbmQuY29tLzpzOj9wL2pidWd1bGlza2lzL0VRT2dQMDd5eWh0S2gyTkdxTj01NDJNQPem4tS0hYd1JLNUZyUjhhajF6OUE_cnRpbWU9eTIYbFIxRVUyRWc)

- June 2020[#] “Coronavirus and Arthritis: Navigating the New Normal – part 3: JIA and Families” - Arthritis Foundation and Centers for Disease Control webinar
- July 2020[#] “A Tale of Two Storms: COVID-19 and The Cytokine Storm” - Medscape Livestream event, speaker and moderator
<https://www.medscape.org/viewarticle/934645>
- July 2020[#] “COVID-19 and Cytokine Storm Syndrome” - Physician Education Event, sponsored by Virtual Pediatric ESsentials (VIPES), **Riyadh, Saudi Arabia**
- July 2020[#] “Recent Developments and the Management of Adult and Pediatric Patients with COVID-19” - Rheum Advisor on Air, Rheumatology Advisor podcast, speaker
<https://www.rheumatologyadvisor.com/home/multimedia/rheum-advisor-on-air/into-the-eye-of-the-cytokine-storm-in-covid-19/>
- July 2020[#] “COVID-19 Cytokine Storm Syndrome” - DocTalk Live with Dr. Brad Goodman, online podcast (July 27, 2020, 4:15-4:45PM CDT).
<https://app.belive.tv/76350/guest>
- July 2020[#] “The Role of the Rheumatologist in COVID-19” - VuMedi webconference hosted by Roman Giverts
- Aug. 2020[#] “COVID-19 Cytokine Storm Syndrome” - Visiting Professor, Cleveland Clinic Medicine Grand Rounds, Cleveland, OH
- Sept. 2020[#] “COVID-19 from Cytokine Signature to Cytokine Storm: Putting IL-1 in the Spotlight” - Medscape Livestream event, speaker and moderator
<https://www.medscape.org/viewarticle/937638>
- Sept. 2020[#] “COVID-19 Cytokine Storm Syndrome” - Congress of Clinical Rheumatology EAST, Destin, FL
- Sept. 2020[#] “MIS-C and What’s New in Peds Rheum” - Congress of Clinical Rheumatology EAST, Destin, FL

- Oct. 2020[#] “COVID-19 Cytokine Storm Syndrome” - Harvard University’s Advances in Rheumatology Course, Cambridge, MA
- Oct. 2020[#] “Cytokine Storm Syndrome – Kill or Be Killed” - Children’s of Alabama Advanced Practice Pharmacology Conference, Birmingham, AL
- Oct. 2020[#] “Cytokine Storm Syndrome and COVID-19” - UAB Department of Pathology Grand Rounds, Birmingham, AL
- Oct. 2020[#] “COVID-19 Multi-system Inflammatory Syndrome in Children (MIS-C)” - University of Alabama at Birmingham, Dept. of Pediatrics Grand Rounds, Birmingham, AL
- Nov. 2020[#] “Characterization of *DOCK8* as a Novel Gene Associated with Cytokine Storm Syndrome” - Histiocyte Society 36th Annual Scientific Meeting, virtual
- Nov. 2020[#] “Characterization of *DOCK8* as a Novel Gene Associated with Cytokine Storm Syndrome” - ACR Convergence/Annual Scientific Meeting, virtual
- Dec. 2020[#] “Who Would Have Predicted MIS-C?”- “The role of Cytokines in COVID-19” series hosted by the NIH/FDA Immunology and Cytokine Interest Groups minisymposium
- Feb. 2021[#] “Who Would Have Predicted MIS-C?” - UAB Department of Pediatrics “Practical Day of Pediatrics”, Birmingham, AL
- ?? 2021 “Cytokine Storm Syndrome – Kill or Be Killed” - Stanford University Pediatric Grand Rounds, Palo Alto, CA

* - cancelled for COVID-19 pandemic

- video conference talk/Grand Rounds, podcast, media outlet, or webinar

GRANT SUPPORT (funding agency, grant title, role on grant, years, total direct costs):

CURRENT:

1. UAB SOM and Precision Medicine Institute, “Glucocorticoid Treatment of COVID-19 Cytokine Storm Syndrome”, co-Principal Investigator, 2020, \$46,000
2. UAB SOM and Precision Medicine Institute, “Early Identification and Treatment of Cytokine Storm Syndrome in COVID-19”, co-Principal Investigator, 2020, \$75,000
3. CARRA-Arthritis Foundation Small Grant, “Development of the Macrophage Activation Syndrome Collaborative”, co-Investigator, 2020, \$25,000
4. American College of Rheumatology Research & Education Foundation/AMGEN, Pediatric Rheumatology Visiting Professorship Award, Recipient, 2020, LSU, \$2,000
5. NIH/NIAD R01, “Overcoming HIV-1 transcriptional latency in unresponsive CD4 T cells”, Co-Investigator: Cron, 2017-2021, \$1,250,000 (\$250,000 to Cron lab)
6. American College of Rheumatology Research & Education Foundation, Fellowship Training Award for Workforce Expansion, Principal Investigator: Cron, 2019-2022, \$150,000

PAST:

1. Howard Hughes Medical Institute, “Transcriptional Regulation of Cytokine Expression in Memory/Effector T Cells”, Principal Investigator: Cron, 1996-1999, \$234,000
2. Stanford MAPS-CHRC, “Role of NFAT Proteins in Cytokine Expression by Neonatal T Cells”, Principal Investigator: Cron, 1997-1999, \$82,000
3. Elizabeth Glaser Pediatric AIDS Foundation, “Role of NFAT and maf Proteins in Neonatal HIV”, Principal Investigator: Cron, 1999-2001, \$72,000
4. Arthritis Foundation Investigator Award, “Role of Altered CD40-Ligand Gene Transcription in Systemic Lupus Erythematosus”, Principal Investigator: Cron, 1999-2004, \$325,000
5. CHOP GCRC, “Role of Altered CD40-Ligand Transcription in Childhood Systemic Lupus Erythematosus”, Principal Investigator: Cron, 2000, \$5,000
6. Boehringer Ingelheim Pharmaceuticals, Inc., “Safety and Efficacy of Meloxicam in Children with Juvenile Rheumatoid Arthritis”, Principal Investigator: Cron, 2001-2002, \$2,000
7. CHOP MAPS-CHRC, “Role of Altered CD40-Ligand Gene Regulation in Systemic Lupus Erythematosus”, Principal Investigator: Cron, 2000-2002, \$60,000
8. Mary L. Smith Charitable Trust, “Role of Octamer Proteins in HIV Transcription in CD4 T Cells”, Principal Investigator: Cron, 2001-2002, \$75,000
9. Arthritis National Research Foundation, “Role of NFAT Proteins in CD154 Gene Regulation and Lupus”, Principal Investigator: Cron, 2002-2003, \$45,000
10. National Institutes of Health, NIAMS, R21, “Role of NFAT Proteins in CD154 Gene Regulation and Lupus”, Principal Investigator: Cron, 2002-2005, \$150,000
11. Nickolett Family Awards Program for JRA Research, “Evaluation of Corticosteroid Injection for TMJ Arthritis”, Principal Investigator: Cron, 2004-2005, \$25,000
12. Ethel Brown Foerderer Fund for Excellence, “Evaluation of MRI and Ultrasound in Establishing the Incidence of TMJ Arthritis in Children with JIA”, Principal Investigator: Cron, 2004-2005, \$40,000
13. University of Pennsylvania CFAR, “NFAT Activity in CsA-Treated HIV-1 Infected Individuals”, Principal Investigator: Cron, 2004-2005, \$40,000
14. Kahn Foundation, “Genetic Factors in SLE”, Principal Investigator, 2001-2006, \$50,000

15. Nickolett Family Awards Program for JRA Research, “Macrophage Activation Syndrome Treatment and Outcomes Registry (MASTOR)”, Principal Investigator, 2005-2006, \$50,000
16. Children’s Arthritis Network/Arthritis Foundation, “Surveillance of Systemic-Onset JIA”, Co-Principal Investigator, 2005-2006, \$42,500
17. Foerderer/Murray Award, “Lentiviral Gene Therapy for Acquired and Congenital Immunodeficiency”, Co-investigator, 2005-2006, \$47,500
18. Betty Wold Johnson and the Alliance for Lupus Research, “Role of STAT5 in IL-15-Augmented CD154 Transcription in SLE”, Principal Investigator, 2006-2007, \$25,000
19. Lupus Foundation pilot grant, “Role of STAT5 in IL-15-Augmented CD154 Transcription in SLE”, Principal Investigator, 2006-2008, \$65,000
20. National Institutes of Health, NIAMS, R01, “Regulation of CD154 in Systemic Lupus Erythematosus”, Principal Investigator, 2002-2009 (no cost extension), \$960,000
21. National Institutes of Health, NIAID, R21, “Increased HIV-1 Transcription in T-helper 2 Cells”, Principal Investigator, 2007-2010 (no cost-extension), \$275,000
22. Novartis, “A Randomized, Double-blind, Placebo Controlled, Withdrawal Study of Flare Prevention of Canakinumab (ACZ885) in Patients with Systemic Juvenile Idiopathic Arthritis (SJIA) and Active Systemic Manifestations”, Site Principal Investigator, 2009, \$3,620
23. Seattle Children’s Hospital/Pfizer, “CARRA Enhanced Drug Safety Surveillance”, Investigator, 2008-2011, \$4,800
24. NIH/NIAMS, “Integrative Genomics of Juvenile Idiopathic Arthritis (JIA)”, Site Investigator, 2011-2012, \$38,900
25. American College of Rheumatology Research & Education Foundation/AMGEN, Pediatric Rheumatology Visiting Professorship Award, Recipient, 2012, University of Miami, \$2,000
26. NIH/NIAMS, “Improved Understanding of the Biology and Use of TNF Inhibition in JIA”, Site Principal Investigator: Cron, 2011-2013
27. NIH/NIAMS, “Macrophage Activation Syndrome Biomarkers in Systemic Juvenile Idiopathic Arthritis”, Site Principal Investigator: Cron, 2008-2013, \$9,400
28. ACR & EULAR, “Development of new diagnostic classification criteria for macrophage activation syndrome complicating systemic-onset juvenile idiopathic arthritis”, Co-Principal Investigator, 2013-2014, \$85,000
29. Arthritis Society of Canada & National Institutes of Health, NIAMS, “Lymphoma Risk in SLE: A Consequence of Immune Suppression or Stimulation?”, Site Principal Investigator: Cron, 2009-2014, \$6,500
30. AAI Travel for Techniques Award, Principal Investigator: Cron, 2014, \$1,500
31. Kaul Pediatric Research Institute, “Genetics of Macrophage Activation Syndrome”, Principal Investigator: Cron, 2013-2015, \$100,000
32. American College of Rheumatology Research & Education Foundation/AMGEN, Pediatric Rheumatology Visiting Professorship Award, Recipient, 2015, Albany Medical College, \$2,000
33. American Pediatric Society Travel Grant, “A heterozygous RAB27A mutation causes delayed cytolytic granule polarization and hemophagocytic lymphohistiocytosis in 2 unrelated teenagers”, Recipient: Cron, 2016, \$3,500
34. American Association of Immunologists Careers in Immunology Fellowship Award, “The Effect of Regulatory CD4 T Cells on HIV-1 Infection of Polarized M1 and M2 Macrophages”, Principal Investigator: Cron, 2015-2016, \$22,920

35. NIH/NIAID R56, “Overcoming HIV-1 transcriptional latency in unresponsive CD4 T cells”, Co-Investigator: Cron, 2016-2017, \$350,000 (\$122,846 to Cron lab)
36. Kaul Pediatric Research Institute, “Inhibition of HIV-1 Expression by Regulatory CD4 T Cells”, Principal Investigator: Cron, 2016-2018, \$100,000
37. NIH/NAIMS P60, “Adaptive Immune Responses to Gut Microbiota in Juvenile & Adult Spondyloarthritis”, Co-Investigator: Cron, 2013-2018, \$958,330 (\$130,000 to Cron lab)
38. Swedish Orphan Biovitrum, “Treatment of Macrophage Activation Syndrome with Anakinra”, Co-Principal Investigator: Cron, 2017-2019, \$300,000
39. UAB/HudsonAlpha Center for Genomic Medicine, “Genetic Defects in Cytolysis in Patients with Macrophage Activation Syndrome Enrolled in a Clinical Trial to Explore Interleukin-1 Blockade Therapy”, Principal Investigator: Cron, 2016-2019 (no-cost extension), \$200,000
40. Histiocytosis Association, Principal Investigator: Cron, “Genetic Defects in Cytolysis in Patients with Macrophage Activation Syndrome Enrolled in a Clinical Trial to Explore Interleukin-1 Blockade Therapy”, 2017-2019, \$50,000

MENTORED GRANTS:

CURRENT (mentored grants):

None

PAST (mentored grants):

1. Elizabeth Glaser Pediatric AIDS Foundation, “Analysis of the role of the c-maf transcription factor in HIV”, Student: Eric Chen, Mentor: Cron, 2002, \$2,000
2. American College of Rheumatology Research & Education Foundation, “The Role of NFAT Proteins in CD154 Expression in SLE”, Student: Jennifer Kozak, Mentor: Cron, 2003, \$4,000
3. AMGEN, “AMGEN Rheumatology Fellowship Award Program”, Fellow: Ed Behrens, Mentor: Cron, 2004-2005, \$25,000
4. Goldie Simon Preceptorship Award, “CD154 and Lupus”, Student: Marie Ridenour, Mentor: Cron, 2005, \$1,000
5. Goldie Simon Preceptorship Award, “Role of STAT5 in IL-15-Augmented CD154 Transcription in SLE”, Student: Audrey Daggan, Mentor: Cron, 2006, \$1,000
6. Alpha Omega Alpha Carolyn L. Kuckein Student Research Fellowship, “Prevalence of Inflammatory Myositis in Patients with Pediatric Systemic Lupus Erythematosus in Alabama”, PI: Jessica Record, Mentor: Cron, 2010, \$5,000 [<http://tv.hs.uab.edu/synopsis/latest.html>]
7. UAB T35 Summer Research Program, “A Study on the Influence of FOXP3-Expressing Tregs on HIV-1 Infection of FOXP3-Negative HIV-1 Infected CD4 T Cells in Co-culture”, PI: Lindsey Harbin, Mentor: Cron, 2010, \$1,650
8. UAB Immunology, Autoimmunity & Transplantation Steering Committee, “Intestinal Flora in the Pathogenesis of Juvenile Spondyloarthritis”, Principal Investigator: Dr. Matthew Stoll, Mentor: Cron, 2012, \$30,000
9. Creative and Novel Ideas in HIV Research (National Institutes of Health Center for AIDS Research), “Role of FoxP3 in Blocking Transcriptional Activation of HIV-1 LTR in Treg Cells”, Principal Investigator: Dr. Robert Lowe, Mentor: Cron, 2012-2014, \$300,000

10. UAB Pediatrics Children's Health Foundation/Kaul Pediatric Research Institute, "Gene Replacement Therapy for the Treatment of X-Linked Hyper-IgM Syndrome", Principal Investigator: Dr. Robert Lowe, Mentor: Cron, 2012-2014, \$60,000
11. UAB Pediatrics CHRC, "Epigenetic Regulation of the CD154 Gene in Children and Adults with Lupus", Principal Investigator: Dr. Robert Lowe, Mentor: Cron, 2012-2015, \$300,000
12. Arthritis Foundation, "Epigenetic Regulation of CD154 Gene Expression", Principal Investigator: Dr. Robert Lowe, Mentor: Cron, 2012-2014, \$100,000
13. UAB/CCTS, "Antigen Discovery within the Gut Microbiome in Pediatric and Adult Spondyloarthritis", Principal Investigator: Dr. Matthew Stoll, Mentor: Cron, 2013-2014, \$60,000
14. Kaul Pediatric Research Institute, "Identification of Target Antigens in Children with Spondyloarthritis", Principal Investigator: Dr. Matthew Stoll, Mentor: Cron, 2013-2015, \$60,000
15. UAB CFAR "Basic Mechanisms in AIDS Pathogenesis" T32 training grant [5T32AI007493-18], "The Mechanism by Which Regulatory T Cells Induce M1 to M2 Polarization in Human Monocyte-Derived Macrophages in HIV-1 Infection", Graduate Student: Tanya Robinson, Mentor: Cron, 2012-2015, \$76,500
16. Ruth L. Kirschstein National Research Service Award (NRSA)/NIH loan repayment program, Principal Investigator: Dr. Robert Lowe, Mentor: Cron, 2013-2015, \$65,000
17. Friends of CARRA pilot grant, "Enteric Flora in Newly Diagnosed Spondyloarthritis: A Collaborative Study", Principal Investigator: Dr. Matthew Stoll, Mentor: Cron, 2013-2015, \$50,000
18. Michael J. Fox Foundation target validation grant, "Validation of the Class II MHC transactivator (CIITA) in models of PD", Principal Investigator: Dr. Ashley S. Harms, Mentor: Cron, 2013-2015, \$250,000
19. American College of Rheumatology Research and Education Foundation, "Exploration of the Gut Microbiome in Spondyloarthritis", Principal Investigator: Dr. Matthew Stoll, Mentor: Cron, 2013-2016, \$375,000
20. NIH/NIEHS R21, "Interactions between AHR ligands and the intestinal microbiota in murine arthritis", Principal Investigator: Dr. Matthew Stoll, Mentor: Cron, 2014-2017, \$275,000
21. NIH/NAIMS P60, "Adaptive Immune Responses to Gut Microbiota in Juvenile & Adult Spondyloarthritis", Co-Investigator: Dr. Matthew Stoll, Mentor: Cron, 2013-2018, \$958,330

OTHER:

ORGANIZING ROLES IN SCIENTIFIC MEETINGS:

- March 1998 “Fas-ligand in Autoimmunity”, Mini-symposium Co-Chair, Park City IV: Pediatric Rheumatology into the Next Century, Park City, UT
- Oct. 2002 “Understanding Children with Rheumatic Diseases: Issues in Clinical Care and Ontogeny of the Immune System”, Study Group Co-Organizer, American College of Rheumatology National Scientific Meeting, New Orleans, LA
- March 2003 “Pediatric Rheumatology 2003: Park City and Beyond”, Abstract Selection Committee and Moderator, Snowmass, CO
- Oct. 2003 “Lymphocyte Activation and Regulation”, Abstract Selection Subcommittee, American College of Rheumatology National Scientific Meeting, Orlando, FL
- Oct. 2003 “Pediatric Rheumatology”, Abstract Selection Subcommittee, American College of Rheumatology National Scientific Meeting, Orlando, FL
- April 2005 “Systemic Lupus Erythematosus” sessions, CARRA, Faculty and Moderator, Pediatric Rheumatology Research Annual Meeting, Denver, CO
- Nov. 2005 “Synoviocyte and NK T Cell Signaling in Autoimmunity”, ACR/EULAR Study Group, Organizer and Moderator, American College of Rheumatology National Scientific Meeting, San Diego, CA
- Nov. 2005 “Transitioning from Fellowship to Your First Academic Appointment”, Young Investigators Subcommittee of the Committee on Scientific Research, Organizer and Moderator, American College of Rheumatology National Scientific Meeting, San Diego, CA
- Nov. 2006 “Regulatory T Cells and Autoimmunity”, ACR/EULAR Study Group, Organizer, American College of Rheumatology National Scientific Meeting, Washington, DC
- Nov. 2006 “Pediatric Rheumatology: Pathogenesis and Genetics I”, Co-Moderator, American College of Rheumatology National Scientific Meeting, Washington, DC
- Nov. 2007 “Vasculopathy and Autoimmunity”, ACR/EULAR Study Group, Organizer and Moderator, American College of Rheumatology National Scientific Meeting, Boston, MA
- Nov. 2007 “Pediatric Rheumatology Pathogenesis and Genetics”, Abstract Selection Subcommittee, American College of Rheumatology National Scientific Meeting, Boston, MA

- March 2008 “Basic Sciences”, Abstract Selection Subcommittee, ACR Keystone Pediatric Rheumatology Symposium, Keystone, CO
- May 2008 “Macrophage Activation Syndrome: Diagnosis and Treatment”, Mini-course Symposium, Organizer and Co-moderator, American Pediatric Society/Society for Pediatric Research National Scientific Meeting, Honolulu, HI
- Oct. 2008 “T-Cell Biology and Targets in Autoimmune Disease”, Abstract Selection Subcommittee, American College of Rheumatology National Scientific Meeting, San Francisco, CA
- Oct. 2008 “T-Cell Signaling in Autoimmune Disease”, Moderator, American College of Rheumatology National Scientific Meeting, San Francisco, CA
- Oct. 2009 “Macrophage Activation Syndrome in Systemic JIA”, Macrophage Activation Syndrome Study Group, Organizer and Co-Moderator, American College of Rheumatology National Scientific Meeting, Philadelphia, PA
- Nov. 2010 “Macrophage Activation Syndrome Versus Sepsis”, Macrophage Activation Syndrome Study Group, Organizer and Co-Moderator, American College of Rheumatology National Scientific Meeting, Atlanta, GA
- Nov. 2010 “TMJ Arthritis in JIA: Prevalence, Diagnosis, & Treatment”, Juvenile Arthritis Workgroup (JAW), Organizer and Co-Moderator, American College of Rheumatology National Scientific Meeting, Atlanta, GA
- May 2011 “Basic Science”, Reviewer for Workshops at the Pediatric Academic Societies (APS/SPR) Annual Scientific Meeting, Denver, CO
- Nov. 2011 “Secondary Macrophage Activation Syndrome: Treatment and Outcome”, Macrophage Activation Syndrome Study Group, Organizer and Co-Moderator, American College of Rheumatology National Scientific Meeting, Chicago, IL
- Nov. 2011 “Inflammatory TMJ Arthritis: Beyond JIA”, Juvenile Arthritis Workgroup (JAW), Organizer and Co-Moderator, American College of Rheumatology National Scientific Meeting, Chicago, IL
- May 2012 “Allergy, Immunology, and Rheumatology”, Abstract Selection Subcommittee, Pediatric Academic Societies (APS/SPR), Boston, MA
- June 2012 Abstract Selection Subcommittee, “UAB Spring Immunology Symposium”, Birmingham, AL

- Nov. 2012 “Cytokines and Signaling in MAS”, Macrophage Activation Syndrome Study Group, Co-Organizer and Co-Moderator, American College of Rheumatology National Scientific Meeting, Washington, DC
- Nov. 2012 “Imaging and Treatment of Inflammatory TMJ Arthritis”, Juvenile Arthritis Workgroup (JAW), Organizer and Co-Moderator, American College of Rheumatology National Scientific Meeting, Washington, DC
- Oct. 2013 “Criteria and Degranulation Assays in Diagnosis of MAS”, Macrophage Activation Syndrome Study Group, Co-Organizer and Co-Moderator, American College of Rheumatology National Scientific Meeting, San Diego, CA
- Oct. 2013 “Assessment of Inflammatory TMJ Arthritis”, Juvenile Arthritis Workgroup (JAW), Organizer and Co-Moderator, American College of Rheumatology National Scientific Meeting, San Diego, CA
- March 2014 “MAS in sJIA Classification Criteria”, Co-Moderator, International Consensus Conference on Macrophage Activation Syndrome Classification Criteria (Co-Chair of conference), Genoa, Italy
- April 2014 “TMJ in JIA”, Facilitator for Roundtable Discussion/Meet-the-Professor, Pediatric Rheumatology Symposium (PRSYM), Orlando, FL
- April 2014 “Genetics and Pathogenesis II”, Moderator for Oral Poster Presentations, Pediatric Rheumatology Symposium (PRSYM), Orlando, FL
- Nov. 2014 State-of-the-Art session on “Macrophages Gone Wild”, Co-Moderator, American College of Rheumatology National Scientific Meeting, Boston, MA
- Nov. 2014 “MAS in Adults with Rheumatic Disease”, Macrophage Activation Syndrome Study Group, Co-Organizer and Co-Moderator, American College of Rheumatology National Scientific Meeting, Boston, MA
- Nov. 2014 “Development of TMJ Arthritis Clinical Trials”, Juvenile Arthritis Workgroup (JAW), Organizer and Co-Moderator, American College of Rheumatology National Scientific Meeting, Boston, MA
- April 2015 “Allergy, Immunology, and Rheumatology”, Abstract Selection Subcommittee, Pediatric Academic Societies (APS/SPR), San Diego, CA
- Nov. 2015 “Pathogenesis and Genetics of Pediatric Rheumatology”, Abstract Selection Subcommittee, American College of Rheumatology National Scientific Meeting, San Francisco, CA

- Nov. 2015 "Nuts and Bolts of Macrophage Activation Syndrome", Organizer and Co-Moderator, American College of Rheumatology National Scientific Meeting, San Francisco, CA
- May 2016 "Allergy, Immunology, and Rheumatology", Abstract Selection Subcommittee, Society for Pediatric Research (SPR), Baltimore, MD
- May 2016 Fellows Basic Science Abstracts Awards Selection Committee, Society for Pediatric Research (SPR), Baltimore, MD
- May 2016 "Genetic Dysregulation in Immunodeficiencies and Immune-mediated Disease", Co-Moderator of Block Symposium, American Association of Immunologists Annual Scientific Meeting, Seattle, WA
- Nov. 2016 "The Cytolytic Pathway in Secondary HLH/MAS", Macrophage Activation Syndrome Study Group, Co-Organizer and Co-Moderator, American College of Rheumatology National Scientific Meeting, Washington, DC
- Nov. 2016 "TMJ Arthritis from JIA into Adulthood", Juvenile Arthritis Workgroup (JAW), Organizer and Co-Moderator, American College of Rheumatology National Scientific Meeting, Washington, DC
- April 2017 "Round Table Discussion with Specialists", Co-Organizer, Jefferson County Pediatric Society, Hoover, AL
- May 2017 Fellows Basic Science Abstracts Awards Selection Committee, Society for Pediatric Research (SPR), San Francisco, CA
- Nov. 2017 "Pediatric Rheumatology – Pathogenesis and Genetics", Abstract Selection Subcommittee, American College of Rheumatology National Scientific Meeting, San Diego, CA
- Nov. 2017 "Macrophage Activation Syndrome - Beyond Systemic Juvenile Idiopathic Arthritis", Macrophage Activation Syndrome Study Group, Co-Organizer and Co-Moderator, American College of Rheumatology National Scientific Meeting, San Diego, CA
- Nov. 2017 "TMJ Arthritis in JIA into Adulthood - An Oromaxillofacial Perspective", Juvenile Arthritis Workgroup (JAW), Organizer and Co-Moderator, American College of Rheumatology National Scientific Meeting, San Diego, CA
- May 2018 Fellows Basic Science Abstracts Awards Selection Committee, Society for Pediatric Research (SPR), Toronto, ON

- May 2018 “Genetic Dysregulation in Immunodeficiencies and Immune-mediated Disease”, Co-Moderator of Block Symposium, American Association of Immunologists Annual Scientific Meeting, Austin, TX
- Oct. 2018 “Pediatric Rheumatology – Pathogenesis and Genetics”, Abstract Selection Subcommittee, American College of Rheumatology National Scientific Meeting, Chicago, IL
- Oct. 2018 “Diagnostic Challenges in Temporomandibular Joint Arthritis in Juvenile Idiopathic Arthritis”, Juvenile Arthritis Workgroup (JAW), Co-Organizer, Co-Moderator and speaker, American College of Rheumatology National Scientific Meeting, Chicago, IL
- Oct. 2018 “Re-Classification of Juvenile Idiopathic Arthritis”, Symposium Organizer and Co-Moderator, American College of Rheumatology National Scientific Meeting, Chicago, IL
- Oct. 2018 “T2T in JIA - Ultrasound vs. MRI: The Great Debate”, Moderator, American College of Rheumatology National Scientific Meeting, Chicago, IL
- Oct. 2018 “Pediatric Rheumatology – Pathogenesis and Genetics”, Co-Moderator, American College of Rheumatology National Scientific Meeting, Chicago, IL
- March 2019 Inaugural meeting of Pediatric Rheumatology of the South (PRoS), Organizer and Presenter, UAB, Birmingham, AL
- Aug. 2019 Development of Clinical Practice Recommendations for “MAS/HLH Early Recognition and Management”, Working Group participant, 2nd Annual NIH-WRNMMC Symposium on Autoinflammatory & Immunodysregulatory Disease, NIH, Bethesda, MD
- Nov. 2019 “Imaging, Orthodontic and Surgical Treatments for Temporomandibular Joint Arthritis in Juvenile Idiopathic Arthritis”, 1st North American meeting of TMJaw (formerly EuroTMJ), Co-Organizer and Co-Moderator, Emory University, Atlanta, GA
- Nov. 2019 “Pediatric Rheumatology – Basic Science”, Abstract Selection Subcommittee, American College of Rheumatology National Scientific Meeting, Atlanta, GA
- Nov. 2019 “Macrophage Activation Syndrome and Interstitial Lung Disease”, Macrophage Activation Syndrome Study Group, Co-Organizer and Co-Moderator, American College of Rheumatology National Scientific Meeting, Atlanta, GA

- Nov. 2019 “Novel Diagnostics and Treatment for Temporomandibular Joint Arthritis in Juvenile Idiopathic Arthritis”, Juvenile Arthritis Workgroup (JAW), Co-Organizer, Co-Moderator, American College of Rheumatology National Scientific Meeting, Atlanta, GA
- Nov. 2019 “Therapeutic Approaches to Treating Macrophage Activation Syndrome”, Organizer and Speaker, American College of Rheumatology National Scientific Meeting, Atlanta, GA
- Feb. 2020 “Rheum to Go”, Co-Organizer, CE Course on Pediatric Rheumatology topics for nurses, nurse practitioners, and physician assistants, Children’s of Alabama, Birmingham, AL
- April 2020 “The Temporomandibular Joint in JIA: What Now?”, Organizer and Speaker, Pediatric Rheumatology Symposium (PRSYM), New Orleans, LA
- May 2020 AAI Excellence in Mentoring Award to Dr. Jeffrey A. Bluestone, Presenter, American Association of Immunologists Annual Scientific Meeting, Honolulu, HI
- June 2020 “The Role of Cytokines in COVID-19 Disease”, Speaker and Moderator, NIH/FDA Immunology and Cytokine Interest Groups minisymposium
- June 2020 3rd Biannual meeting of Pediatric Rheumatology of the South (PRoS), Co-Organizer and Speaker, Shriners Hospitals for Children, Shreveport, LA
- Nov. 2020 “Pediatric Rheumatology – Pathogenesis and Genetics”, Abstract Selection Subcommittee, American College of Rheumatology Convergence/National Scientific Meeting, Washington, DC
- Nov. 2020 “Diagnosis, Monitoring, and Treatment of TMJ arthritis, ICR, and Anterior TMJ Disc Displacement in Children”, Juvenile Arthritis Workgroup (JAW), Organizer, Co-Moderator, American College of Rheumatology Convergence/National Scientific Meeting, Washington, DC
- Nov. 2020 “Preparing for Leadership in Rheumatology”, Panelist, Division Directors’ Special Committee session, American College of Rheumatology Convergence/National Scientific Meeting, Washington, DC

BIBLIOGRAPHY [11,065 Scopus citations]; (h-index: 57; i10-index: 155; scholar.google.com)
<https://www.ncbi.nlm.nih.gov/myncbi/randall.cron.1/bibliography/public/> (199 PUBMED)
(F1000Prime Recommended; https://f1000.com/prime):

MANUSCRIPTS ALREADY PUBLISHED:

1. Matis, L.A., **Cron, R.**, and Bluestone, J.A. 1987. Major histocompatibility complex-linked specificity of $\gamma\delta$ receptor-bearing T lymphocytes. *Nature* 330:262-264. **[413 citations]**
2. **Cron, R.Q.**, Koning, F., Maloy, W.L., Pardoll, D., Coligan, J.E., and Bluestone, J.A. 1988. Peripheral murine CD3⁺, CD4⁻, CD8⁻ T lymphocytes express novel T cell receptor $\gamma\delta$ structures. *J. Immunol.* 141:1074-1082. **[125 citations]**
3. Bluestone, J.A., **Cron, R.Q.**, Cotterman, M., Houlden, B.A., and Matis, L.A. 1988. Structure and specificity of TCR $\gamma\delta$ receptors on major histocompatibility complex antigen specific CD3⁺, CD4⁻, CD8⁻ T lymphocytes. *J. Exp. Med.* 168:1899-1916. **[379 citations]**
4. Houlden, B.A., **Cron, R.Q.**, Coligan, J.E. and Bluestone, J.A. 1988. Systematic development of distinct TCR $\gamma\delta$ T cell subsets during fetal ontogeny. *J. Immunol.* 141:3753-3759. **[70 citations]**
5. **Cron, R.Q.**, Gajewski, T.F., Sharrow, S.O., Fitch, F.W., Matis, L.A., and Bluestone, J.A. 1989. Phenotypic and functional analysis of murine CD3⁺, CD4⁻, CD8⁻ TCR $\gamma\delta$ -expressing peripheral T cells. *J. Immunol.* 142:3754-3762. **[179 citations]**
6. Matis, L.A., Fry, A.M., **Cron, R.Q.**, Cotterman, M.M., Dick, R.F., and Bluestone, J.A. 1989. Structure and specificity of a class II MHC alloreactive $\gamma\delta$ T cell receptor heterodimer. *Science* 245:746-749. **[205 citations]**
7. **Cron, R.Q.**, Ezquerra, A., Coligan, J.E., Houlden, B.A., Bluestone, J.A., and Maloy, W.L. 1989. Identification of distinct TCR $\gamma\delta$ heterodimers using anti-TCR gamma variable region serum. *J. Immunol.* 143:3769-3775. **[25 citations]**
8. **Cron, R.Q.**, Coligan, J.E. and Bluestone, J.A. 1990. Polymorphisms and diversity of T cell receptor- γ proteins in murine spleen. *Immunogenetics* 31:220-228. **[23 citations]**
9. Ezquerra, A., **Cron, R.Q.**, McConnell, T.J., Valas, R.B., Bluestone, J.A., and Coligan, J.E. 1990. T cell receptor delta gene expression and diversity in the mouse spleen. *J. Immunol.* 145:1311-1317. **[58 citations]**
10. Shimada, S., Caughman, S.W., Bluestone, J.A., **Cron, R.Q.**, Owen, F.L., Smith, J.A., and Katz, S.I. 1990. Freshly isolated Thy-1⁺ dendritic epidermal cells express T cell receptor $\gamma\delta$ -CD3. *J. Dermatol. Sci.* 1:459-464. **[5 citations]**
11. Sperling, A.I., **Cron, R.Q.**, Decker, D.C., Stern, D.A., and Bluestone, J.A. 1992. Peripheral T cell receptor $\gamma\delta$ variable gene repertoire maps to T cell receptor loci and is influenced by positive selection. *J. Immunol.* 149:3200-3207. **[38 citations]**
12. Tatsumi, Y., Deluca, D., **Cron, R.Q.**, and Bluestone, J.A. 1994. Differential effects of T cell receptor ligation of TCR $\gamma\delta$ thymocyte development in fetal thymic organ culture. *Thymus* 23:131-153. **[1 citation]**
13. Schubert, L.A., King, G., **Cron, R.Q.**, Lewis, D.B., Aruffo, A., and Hollenbaugh, D. 1995. The human gp39 promoter: Two distinct NF-AT protein-binding elements contribute independently to transcriptional activation. *J. Biol. Chem.* 270:29624-29627. **[82 citations]**
14. **Cron, R.Q.**, Schubert, L.A., Lewis, D.B., and Hughes, C.C. 1997. Consistent transient

- transfection of DNA into non-transformed human and murine lymphocytes. *J. Immunol. Methods* 205:145-150. [35 citations]
15. **Cron, R.Q.**, Bort, S.J., Wang, Y., Brunvand, M.W., and Lewis, D.B. 1999. T cell priming enhances IL-4 gene expression by increasing NFAT. *J. Immunol.* 162:860-870. [45 citations]
 16. **Cron, R.Q.**, Sharma, S., and Sherry, D.D. 1999. Current treatment by United States and Canadian pediatric rheumatologists. *J. Rheumatol.* 26:2036-2038. [61 citations]
 17. **Cron, R.Q.**, Bartz, S., Clausell, A., Bort, S.J., Klebanoff, S.J., and Lewis, D.B. 2000. NFAT1 enhances HIV-1 gene expression in primary human CD4 T cells. *Clin. Immunol.* 94:179-191. [92 citations]
 18. **Cron, R.Q.**, Zhou, B., Brunvand, M.W., and Lewis, D.B. 2001. Octamer proteins inhibit IL-4 gene transcription in normal human CD4 T cells. *Genes Immun.* 2:464-468. [14 citations]
 19. Schubert, L.A., **Cron, R.Q.**, Cleary, A.M., Brunner, M., Song, A., Lu, L.-S, Jullien, P., Krensky, A.M., and Lewis, D.B. 2002. A T cell-specific enhancer of the human CD40 ligand gene. *J. Biol. Chem.* 277:7386-7395. [25 citations]
 20. Zhou, B., **Cron, R.Q.***, Wu, G., Genin, A., Wang, Z., Liu, S., Robson, P., and Baldwin, H.S. 2002. Regulation of the murine Nfatc1 gene by NFATc2. *J. Biol. Chem.* 277:10704-10711. (* - co-first author) [102 citations]
 21. Hamilton, B.J., Genin, A., **Cron, R.Q.**, and Rigby, W.F.C. 2003. Delineation of a novel pathway that regulates CD154 (CD40 ligand) expression. *Mol. Cell. Biol.* 23:510-525. [65 citations]
 22. Jullien, P., **Cron, R.Q.**, Dabbagh, K., Cleary, A.M., Tran, P., Stepick-Biek, P., and Lewis, D.B. 2003. Decreased CD154 (CD40 ligand) expression by neonatal naïve CD4 T cells is due to proximal and distal limitations in T cell activation. *Int. Immunol.* 15:1461-1472. [34 citations]
 23. Zhang, M., Genin, A., and **Cron, R.Q.** 2004. Over-expression of octamer transcription factors 1 or 2 alone has no effect on HIV-1 transcription in primary human CD4 T cells. *Virology* 321:323-331. [9 citations]
 24. Arabshahi, B., Dewitt, E.M., Cahill, A.M., Kaye, R.D., Baskin, K.M., Towbin, R.B., and **Cron, R.Q.** 2005. Utility of corticosteroid injection for temporomandibular joint arthritis in children with juvenile idiopathic arthritis. *Arthritis Rheum.* 52:3563-3569. [81 citations] **F1000**
 25. **Cron, R.Q.**, Bandyopadhyay, R., Genin, A., Brunner, M., Kersh, G.J., Yin, J., Finkel, T.H., and Crow, M.K. 2006. Early growth response-1 is required for CD154 transcription. *J. Immunol.* 176:811-818. [26 citations]
 26. Selliah, N., Zhang, M., Desimone, D., Kim, H., Brunner, M., Ittenbach, R.F., Rui, H., **Cron, R.Q.***, and Finkel, T.H. 2006. The γ_c -cytokine regulated transcription factor, STAT5, activates HIV-1 replication in resting CD4 T-cells. *Virology* 344:283-291. (* - co-senior author) [30 citations]
 27. Fitch, P.G., Rettig, P., Burnham, J.M., Finkel, T.H., Yan, A.C., Akin, E., and **Cron, R.Q.** 2006. Treatment of pediatric localized scleroderma with methotrexate. *J. Rheumatol.* 33:609-614. [73 citations]

28. Yin, J., Ma, Z., Shivers, D.K., **Cron, R.Q.**, and Finkel, T.H. 2006. Effective gene suppression using small interfering RNA in hard-to-transfect human T cells. *J. Immunol. Methods* 312:1-11. [**20 citations**]
29. Von Feldt, J.M., Scalzi, L.V., Cucchiara, A.J., Morhtala, S., Kealey, C., Flagg, S.D., Genin, A., Van Dyke, A.L., Nackos, E., Chander, A., Gehrie, E., **Cron, R.Q.**, and Whitehead, A.S. 2006. Homocysteine levels and disease duration independently correlate with coronary artery calcification in patients with systemic lupus erythematosus. *Arthritis Rheum.* 54:2220-2227. [**93 citations**]
30. Beukelman, T., Arabshahi, B., Cahill, A.M., Kaye, R.D., and **Cron, R.Q.** 2006. Benefit of intra-articular corticosteroid injection under fluoroscopic guidance for subtalar arthritis in juvenile idiopathic arthritis. *J. Rheumatol.* 33:2330-2336. [**28 citations**]
31. Cahill, A.M., Baskin, K.M., Kaye, R.D., Arabshahi, B., **Cron, R.Q.**, Dewitt, E.M., Bilaniuk, L., and Towbin, R.B. 2007. CT-guided percutaneous steroid injection for inflammatory arthropathy of the temporomandibular joint in children. *AJR Am. J. Roentgenol.* 188:182-186. [**39 citations**]
32. Behrens, E.M., Beukelman, T., Paessler, M., and **Cron, R.Q.** 2007. Occult macrophage activation syndrome in patients with systemic juvenile idiopathic arthritis. *J. Rheumatol.* 34:1133-1138. [**225 citations**]
33. Cahill, A.M., Cho, S.S., Baskin, K.M., Beukelman, T., **Cron, R.Q.**, Kaye, R.D., and Towbin, R.B. 2007. Benefit of fluoroscopically guided intraarticular, long-acting corticosteroid injection for subtalar arthritis in juvenile idiopathic arthritis. *Pediatr. Radiol.* 37:544-548. [**33 citations**]
34. Behrens, E.M., Beukelman, T., Gallo, L., Sprangler, J., Rosenkrantz, M., Arkachaisri, T., Ayala, R., Groh, B., Finkel, T.H., and **Cron, R.Q.** 2008. Evaluation of the presentation of systemic onset juvenile rheumatoid arthritis: data from the Pennsylvania Systemic Onset Juvenile Arthritis Registry (PASOJAR). *J. Rheumatol.* 35:343-348. [**102 citations**]
35. Ota, S., **Cron, R.Q.**, Schanberg, L.E., O'Neil, K., Mellins, E.D., Fuhlbrigge, R.C., Feldman, B.M. 2008. Research priorities in pediatric rheumatology: The Childhood Arthritis and Rheumatology Research (CARRA) consensus. *Pediatr. Rheumatol. Online J.* 6:5. [**13 citations**]
36. Weiss, P.F., Arabshahi, B., Johnson, A., Bilaniuk, L.T., Zarnow, D.M., Cahill, A.M., Feudtner, C., and **Cron, R.Q.** 2008. High prevalence of temporomandibular joint arthritis in children with new-onset juvenile idiopathic arthritis as detected by MRI but not by ultrasound. *Arthritis Rheum.* 58:1189-1196. [**154 citations**]
37. Brunner, M., Zhang, M., Genin, A., Ho, I.-C., and **Cron, R.Q.** 2008. A T-cell-specific CD154 transcriptional enhancer located just upstream of the promoter. *Genes Immun.* 9:640-649. [**11 citations**]
38. Selliah, N., Zhang, M., White, S., Zoltick, P., Sawaya, B., Finkel, T.H., and **Cron, R.Q.** 2008. FOXP3 inhibits HIV-1 infection of CD4 T-cells via inhibition of LTR transcriptional activity. *Virology* 381:161-167. [**27 citations**]
39. Duverger, A., Jones, J., May, J., Bibollet-Rusch, F., Wagner, F.A., **Cron, R.Q.**, and Kutsch, O. 2009. Determinants of HIV-1 latency establishment. *J. Virol.* 83:3078-3093. [**87 citations**] **F1000**

40. The Young Investigator Subcommittee of the American College of Rheumatology Committee on Research [Fitzgerald, J., Mandl, L.A., **Cron, R.Q.**, Lacaille, D., Deane, K., Franchin, G., Lim, S.S., and Park, C.C.]. 2009. Rheumatology fellows' perception on training and careers in academia: results from the American College of Rheumatology Fellow Research and Academic Training Survey. *Arthritis Rheum.* 61:266-273. **[9 citations]**
41. Donnithorne, K.J., Atkinson, T.P., Hinze, C.H., Nogueira, J.B., Saeed, S.A., Askenazi, D.J., Beukelman, T., and **Cron, R.Q.** 2009. Rituximab therapy for severe refractory chronic Henoch-Schonlein purpura. *J. Pediatr.* 155:136-139. **[54 citations]**
42. Torgerson, T.R., Genin, A., Chen, C., Zhang, M., Zhou, B., Anover, S., Frank, M.B., Dozmorov, I., Ocheltree, E., Kulmala, E., Centola, M., Ochs, H.D., Wells, A.D., and **Cron, R.Q.** 2009. FOXP3 inhibits activation-induced NFAT2 expression in T cells thereby limiting effector cytokine expression. *J. Immunol.* 183:907-915. **[35 citations]**
43. Becker, M.L., Rose, C.D., **Cron, R.Q.**, Sherry, D.D., Bilker, W.B., and Lautenbach, E. 2010. Effectiveness and toxicity of methotrexate in juvenile idiopathic arthritis: comparison of two initial dosing regimens. *J. Rheumatol.* 37:870-875. **[21 citations]**
44. Mehta, J., Genin, A., Brunner, M., Scalzi, L.V., Mishra, N., Beukelman, T., and **Cron, R.Q.** 2010. Prolonged CD154 expression on CD4 T cells from pediatric lupus patients correlates with increased CD154 transcription, increased nuclear factor of activated T cell activity, and glomerulonephritis. *Arthritis Rheum.* 62:2499-2509. **[17 citations]**
45. Nigrovic, P.A., Mannion, M., Zeft, A., Rabinovich, E., van Rossum, M.A.J., Cortis, E., Pardeo, M., Miettunen, P.M., Janow, G., Birmingham, J., Eggebeen, A., Janssen, E., Shulman, A.I., Son, M.B., Hong, S., Jones, K., Ilowite, N.T., **Cron, R.Q.**, and Higgins, G.C. 2011. Anakinra as first-line disease modifying therapy in systemic juvenile idiopathic arthritis: report of 46 patients from an international multicenter series. *Arthritis Rheum.* 63:545-555. **[282 citations]** **F1000**
46. Beukelman, T., Patkar, N.M., Saag, K.G., Tolleson-Rinehart, S., **Cron, R.Q.**, DeWitt, E.M., Ilowite, N.T., Kimura, Y., Laxer, R.M., Lovell, D.J., Martini, A., Rabinovich, C.E., and Ruperto, N. 2011. 2011 American College of Rheumatology recommendations for the treatment of juvenile idiopathic arthritis: initiation and safety monitoring of therapeutic agents for the treatment of arthritis and systemic features. *Arthritis Care Res.* 63:465-482. **[508 citations]**
47. Davi, S., Consolaro, A., Guseinova, D., Pistorio, A., Ruperto, N., Martini, A., **Cron, R.Q.**, and Ravelli, A. 2011. An international consensus survey of the diagnostic criteria for macrophage activation syndrome in systemic juvenile idiopathic arthritis. *J. Rheumatol.* 38:764-768. [featured in the editorial: Wulffraat, N.M. 2011. Defining criteria for macrophage activation syndrome, a process towards early recognition and treatment. *J. Rheumatol.* 38:593-594] **[103 citations]**
48. Record, J.L., Beukelman, T., and **Cron, R.Q.** 2011. High prevalence of inflammatory myositis in patients with pediatric systemic lupus erythematosus in the state of Alabama. *Pediatr. Rheumatol. Online J.* 9:20. **[7 citations]**
49. Donnithorne, K.J., **Cron, R.Q.**, and Beukelman, T. 2011. Attainment of inactive disease status following initiation of TNF- α inhibitor therapy in a heterogeneous cohort of

- children with juvenile idiopathic arthritis: enthesitis related arthritis predicts persistent active disease. *J. Rheumatol.* 38:2675-2681. [33 citations]
50. Stoll, M.L., Good, J., Sharpe, T., Beukelman, T., Young, D., Waite, P.D., and **Cron, R.Q.** 2012. Intra-articular corticosteroid injections to the temporomandibular joints are safe and appear to be effective in children with juvenile idiopathic arthritis. *J. Oral Maxillofac. Surg.* 70:1802-1807. [56 citations]
51. Stoll, M.L., Sharpe, T., Good, J., Beukelman, T., Young, D., and **Cron, R.Q.** 2012. Risk factors for temporomandibular joint arthritis in children with juvenile idiopathic arthritis. *J. Rheumatol.* 39:1880-1887. [featured in the editorial: Saurenmann, R. 2012. The difficult diagnosis of temporomandibular joint arthritis. *J. Rheumatol.* 39:1778-1780] [70 citations]
52. Zhang, M., Clausell, A., Robinson, T., Yin, J., Chen, E., Johnson, L., Weiss, G., Sabbaj, S., Lowe, R.M., Wagner, F.H., Goepfert, P.A., Kutsch, O., and **Cron, R.Q.** 2012. Host factor transcriptional regulation contributes to preferential expression of HIV type 1 in IL-4 producing CD4 T cells. *J. Immunol.* 189: 2746-2757. [featured in: “*In This Issue*” which highlights articles that are among the top 10% of articles published in the journal] [16 citations]
53. Ringold, S., Tzaribachev, N., and **Cron, R.Q.** 2012. Management of TMJ arthritis in adult rheumatology practices: a survey of adult rheumatologists. *Pediatr. Rheumatol. Online J.* 10:26. [10 citations]
54. Duverger, A., Wolschendorf, F., Zhang, M., Wagner, F., Hatcher, B. Jones, J., **Cron, R.Q.**, van der Sluis, R.M., Jeeninga, R.E., Berkhout, B., and Kutsch, O. 2013. An AP-1 binding site in the enhancer/core element of the HIV-1 promoter controls the ability of HIV-1 to establish latent infection. *J. Virol.* 87:2264-2277. [47 citations]
55. Stoll, M.L., Morlandt, A.B., Terrawattanapong, S., Young, D., Waite, P.D., and **Cron, R.Q.** 2013. Safety and efficacy of intra-articular infliximab therapy for treatment resistant temporomandibular joint arthritis in children: a retrospective study. *Rheumatol. (Oxford)* 52:554-559. [22 citations]
56. Harms, A.S., Cao, S, Rowse, A.L., Thome, A.D., Li, X., Mangieri, L. R., **Cron, R.Q.**, Shacka, J.J., Raman, C., and Standaert, D.G. 2013. MHCII is required for alpha-synuclein induced activation of microglia, CD4 T cell proliferation and dopaminergic neurodegeneration. *J. Neurosci.* 33:9592-9600. [150 citations]
57. Weiser, P., Johnson, S., Lowe, R.M., and **Cron, R.Q.** 2013. Temporomandibular joint arthritis in juvenile dermatomyositis and pediatric mixed connective tissue disease. *Ann. Pediatr. Rheumatol.* 2:91-94. [1 citation]
58. Tambralli, A., Beukelman, T., Weiser, P., Atkinson, T.P., **Cron, R.Q.***, and Stoll, M.L. 2013. High doses of infliximab in the management of juvenile idiopathic arthritis. *J. Rheumatol.* 40:1749-1755. (* - corresponding author) [featured in the editorial: Prince, F.H., and Solomon, D.H. 2013. Dosing of biologics in juvenile idiopathic arthritis: is the sky the limit? *J. Rheumatol.* 40:1643-1645] [32 citations]
59. Bernatsky, S., Clarke, A.E., Labrecque, J., von Scheven, E., Schanberg, L.E., Silverman, E.D., Brunner, H.I., Haines, K.A., **Cron, R.Q.**, O’Neil, K.M., Oen, K., Rosenberg, A.M., Duffy, C.M., Lee, J.L., Kale, M., Turnbull, E.M., and Ramsey-Goldman, R. 2013. Cancer risk in childhood-onset systemic lupus. *Arthritis Res. Therapy* 15:R198. [16 citations]

60. Duverger, A., Wolschendorf, F., Anderson, J.C., Wagner, F., Bosque, A., Shishido, T., Jones, J., Planelles, V., Willey, C., **Cron, R.Q.**, and Kutsch, O. 2014. Kinase control of latent HIV-1 infection: PIM-1 kinase as a major contributor to HIV-1 reactivation. *J. Virol.* 88:364-376. [**23 citations**]
61. Vaid, Y.N., Dunnivant, D.F., Royal, S.A., Beukelman, T., Stoll, M.L., and **Cron, R.Q.** 2014. Imaging of the temporomandibular joint in juvenile idiopathic arthritis. *Arthritis Care Res.* 66:47-54. [**33 citations**]
62. Shafferman, A., Fontaine, K.R., **Cron, R.Q.**, and Beukelman, T. 2014. Changes in body mass index in children with juvenile idiopathic arthritis treated with tumor necrosis factor inhibitors. *J. Rheumatol.* 41:113-118. [**5 citations**]
63. Foeldvari, I., Tzaribachev, N., and **Cron, R.Q.** 2014. Results of a multinational survey regarding the diagnosis and treatment of temporomandibular joint involvement in juvenile idiopathic arthritis. *Pediatr. Rheumatol. Online J.* 12:6. [**9 citations**]
64. Lowe, R.M., Genin, A., Orgun, N., and **Cron, R.Q.** 2014. IL-15 prolongs CD154 expression on human CD4 T cells via STAT5 binding to the CD154 transcriptional promoter. *Genes Immun.* 15:137-144. [**6 citations**]
65. Zhang, M., Ma, Z., Selliah, N., Weiss, G., Genin, A., Finkel, T.H., and **Cron, R.Q.** 2014. The impact of Nucleofection[®] on the activation state of primary human CD4 T cells. *J. Immunol. Methods* 408:123-131. [**11 citations**]
66. Davi, S., Minoia, F., Pistoria, A., Horne A., Consolaro, A., Rosina, S., Bovis, F., Cimaz, R., Gamir, M.L., Ilowite, N., Kone-Paut, I., Feitosa de Oliveira, S.K., McCurdy, D., Silva, C.A., Sztajn bok, F., Tsitsami, E., Unsal, E., Weiss, J., Wulffraat, N., Abinun, M., Aggarwal, A., Apaz, M.T., Astigarraga, I., Corona, F., Cuttica, R., D'Angelo, G., Eisenstein, E., Hashad, S., Lepore, L., Mulaosmanovic, V., Nielsen, S., Prahalad, S., Rigante, D., Stanevicha, V., Sterba, G., Susic, G., Takei, S., Trauzeddel, R., Zletni, M., Ruperto, N., Martini, A., **Cron, R.Q.**, Ravelli, A., on behalf of the Pediatric Rheumatology International Trials Organization; the Childhood Arthritis & Rheumatology Research Alliance; the Pediatric Rheumatology Collaborative Study Group; the Histiocyte Society. 2014. Performance of current guidelines for diagnosis of macrophage activation syndrome complicating systemic juvenile idiopathic arthritis. *Arthritis Rheumatol.* 66:2871-2880. [**65 citations**]
67. Minoia, F., Davi, S., Horne, A., Demirkaya, E., Bovis, F., Li, C., Lemberg, K., Wieszman, S., Insalaco, A., Wouters, C., Shenoi, S., Espada, G., Ozen, S., Anton, J., Khubchandani, R., Russo, R., Pal, P., Kasapcopur, O., Miettunen, P., Maritsi, D., Merino, R., Shakoory, B., Alessio, M., Chasnyk, V., Sanner, H., Gao, Y., Huasong, Z., Kitoh, T., Avcin, T., Fishbach, M., Frosch, M., Grom, A., Huber, A., Jelusic, M., Sawhney, S., Uziel, Y., Ruperto, N., Martini, A., **Cron, R.Q.**, Ravelli, A., on behalf of the Pediatric Rheumatology International Trials Organization; the Childhood Arthritis & Rheumatology Research Alliance; the Pediatric Rheumatology Collaborative Study Group, and the Histiocyte Society. 2014. Clinical features, treatment and outcome of macrophage activation syndrome complicating systemic juvenile idiopathic arthritis: a multinational, multicenter study of 362 patients. *Arthritis Rheumatol.* 66:3160-3169. [**158 citations**]

68. Stoll, M.L., Kumar, R., Morrow, C.D., Lefkowitz, E.J., Cui, X., Genin, A., **Cron, R.Q.**, and Elson, C.O. 2014. Altered microbiota triggering abnormal humoral immune responses to commensal organisms in juvenile spondyloarthritis. *Arthritis Res. Ther.* 16:486-495. [**105 citations**]
69. Tambralli, A., Beukelman, T., **Cron, R.Q.**, and Stoll, M.L. 2015. Safety and efficacy of rituximab in childhood-onset lupus and other rheumatic diseases. *J. Rheumatol.* 42:541-546. [**24 citations**]
70. Manóia, F., Davi, S., Horne, A., Bovis, F., Demirkaya, E., Akikusa, J., Ayaz, N.A., Al-Mayouf, S., Barone, P., Bica, B., Bolt, I., Breda, L., DeCunto, C., Enciso, S., Gallizzi, R., Griffin, T., Hennon, T., Horneff, G., Jeng, M., Kapovic, A.M., Lipton, J.M., Magni-Manzoni, S., Rumba, I., Saad Magalhaes, C., Sewairi, W.M., Stine, K.C., Vougiouka, O., Weaver, L., Davidsons, Z., De Inocencio, J., Ioseliani, M., Lattanzi, B., Tezer, H., Buoncompagni, A., Picco, P., Ruperto, N., Martini, A., **Cron, R.Q.**, Ravelli, A., on behalf of the Pediatric Rheumatology International Trials Organization; the Childhood Arthritis & Rheumatology Research Alliance; the Pediatric Rheumatology Collaborative Study Group, and the Histiocyte Society. 2015. Dissecting the heterogeneity of macrophage activation syndrome complicating systemic juvenile idiopathic arthritis. *J. Rheumatol.* 42:994-1001. [**36 citations**]
71. Stoll, M.L., Vaid, Y.N., Guleria, S., Beukelman, T., Waite, P.D., and **Cron, R.Q.** 2015. Magnetic resonance imaging findings following intraarticular infliximab therapy for refractory temporomandibular joint arthritis among children with juvenile idiopathic arthritis. *J. Rheumatol.* 42:2155-2159. [featured in the editorial: Saurenmann, R.K., and Kellenberger, C.J. 2015. Assessing arthritis in the temporomandibular joint. *J. Rheumatol.* 42:2000-2002] [**9 citations**]
72. Shakoory, B., Carcillo, J.A., Chatham, W.W., Amdur, R.L., Zhao, H., Dinarello, C.A., **Cron, R.Q.**, and Opal, S.M. 2016. Interleukin-1 receptor blockade is associated with reduced mortality in sepsis patients with features of macrophage activation syndrome: re-analysis of a prior Phase III trial. *Crit. Care Med.* 44:275-281. [listed as a Feature article and as an Editor's Choice article; featured in the editorial: Johnson, D.W., and Kalil, A.C. 2016. Is interleukin-1 receptor blockade ready for prime time in patients with severe sepsis and macrophage activation syndrome? *Crit. Care Med.* 44:443-444] [**240 citations**] **F1000**
73. Ravelli, A., Minoia, F., Davi, S., Horne, A., Bovis, F., Pistorio, A., Arico, M., Avcin, T., Behrens, E.M., De Benedetti, F., Filipovich, L., Grom, A.A., Henter, J.-I., Ilowite, N.T., Jordan, M.B., Khubchandani, R., Ktíoh, T., Lehmberg, K., Lovell, D.J., Miettunen, P., Nichols, K.E., Ozen, S., Pachlopnik-Schmid, J., Ramanan, A.V., Russo, R., Schneider, R., Sterba, G., Uziel, Y., Wallace, C., Wouters, C., Wulffraat, N., Demirkaya, E., Brunner, H.I., Martini, A., Ruperto, N., and **Cron, R.Q.** on behalf of the Pediatric Rheumatology International Trials Organization, the Childhood Arthritis & Rheumatology Research Alliance, the Pediatric Rheumatology Collaborative Study Group, and the Histiocyte Society. 2016. Expert consensus on dynamics of laboratory tests for diagnosis of macrophage activation syndrome complicating systemic juvenile idiopathic arthritis. *RMD Open* 2:e000161. [**30 citations**]

74. Ravelli, A., Minoia, F., Davi, S., Horne, A., Bovis, F., Pistorio, A., Arico, M., Avcin, T., Behrens, E.M., De Benedetti, F., Filipovic, L., Grom, A.A., Henter, J.-I., Ilowite, N.T., Jordan, M.B., Khubchandani, R., Kttoh, T., Lehmberg, K., Lovell, D.J., Miettunen, P., Nichols, K.E., Ozen, S., Pachlopnik-Schmid, J., Ramanan, A.V., Russo, R., Schneider, R., Sterba, G., Uziel, Y., Wallace, C., Wouters, C., Wulffraat, N., Demirkaya, E., Brunner, H.I., Martini, A., Ruperto, N., and **Cron, R.Q.** on behalf of the Pediatric Rheumatology International Trials Organization, the Childhood Arthritis & Rheumatology Research Alliance, the Pediatric Rheumatology Collaborative Study Group, and the Histiocyte Society. 2016. 2016 classification criteria for macrophage activation syndrome complicating systemic juvenile idiopathic arthritis. *Ann. Rheum. Dis.* 75:481-489. [142 citations] **F1000**
75. Ravelli, A., Minoia, F., Davi, S., Horne, A., Bovis, F., Pistorio, A., Arico, M., Avcin, T., Behrens, E.M., De Benedetti, F., Filipovic, L., Grom, A.A., Henter, J.-I., Ilowite, N.T., Jordan, M.B., Khubchandani, R., Kttoh, T., Lehmberg, K., Lovell, D.J., Miettunen, P., Nichols, K.E., Ozen, S., Pachlopnik-Schmid, J., Ramanan, A.V., Russo, R., Schneider, R., Sterba, G., Uziel, Y., Wallace, C., Wouters, C., Wulffraat, N., Demirkaya, E., Brunner, H.I., Martini, A., Ruperto, N., and **Cron, R.Q.** on behalf of the Pediatric Rheumatology International Trials Organization, the Childhood Arthritis & Rheumatology Research Alliance, the Pediatric Rheumatology Collaborative Study Group, and the Histiocyte Society. 2016. 2016 classification criteria for macrophage activation syndrome complicating systemic juvenile idiopathic arthritis. *Arthritis Rheumatol.* 68:566-576. Editor's Pick for this month's issue, including cover photo associated with manuscript. [featured in the editorial: Canna, S.W., and Nigrovic, P.A. 2016. 21st century storm chasers: defining macrophage activation syndrome. *Arthritis Rheumatol.* 68:557-560] [96 citations] **F1000**
76. Zhang, M., Bracaglia, C., Prencipe, G., Bemrich-Stolz, C.J., Beukelman, T., Dimmitt, R.A., Chatham, W.W., Zhang, K., Li, H., Walter, M.R., De Benedetti, F., Grom, A.A., and **Cron, R.Q.** 2016. A heterozygous *RAB27A* mutation associated with delayed cytolytic granule polarization and hemophagocytic lymphohistiocytosis. *J. Immunol.* 196:2492-2503. [26 citations]
77. Schulert, G.S., Zhang, M., Fall, N., Husami, A., Kissell, D., Hanosh, A., Zhang, K., Davis, K., Jentzen, J.M., Napolitano, L., Siddiqui, J., Smith, L.B., Harms, P.W., Grom, A.A., and **Cron, R.Q.** 2016. Whole exome sequencing reveals mutations in hemophagocytic lymphohistiocytosis and macrophage activation syndrome linked genes among fatal cases of H1N1 influenza. *J. Infect. Dis.* 213:1180-1188. [53 citations]
78. Stoll, M.L., Kumar, R., Lefkowitz, E., **Cron, R.Q.**, Morrow, C., and Barnes, S. 2016. Fecal metabolomics in pediatric spondyloarthritis implicate decreased metabolic diversity and altered tryptophan metabolism as pathogenic factors. *Genes Immun.* 17:400-405. [20 citations]
79. Robinson, T.O., Zhang, M., Ochsenbauer, C., Smythies, L.E., and **Cron, R.Q.** 2017. CD4 regulatory T cells augment HIV-1 expression of polarized M1 and M2 monocyte derived macrophages. *Virology* 504:79-87. [6 citations]
80. Stoustrup, P., Twilt, M., Spiegel, L., Kristensen, K.D., Koos, B., Pederson, T.K., Kuseler, A., **Cron, R.Q.**, Abramowicz, S., Verna, C., Peltomaki, T., Alstergren, P., Petty, R.,

- Ringold, S., Norholt, S.E., Saurenmann, R.K., and Herlin, T. on behalf of the EuroTMjoint network. 2017. Clinical orofacial examination in juvenile idiopathic arthritis: international consensus-based recommendations for monitoring patients in clinical practice and research studies. *J. Rheumatol.* 44:326-333. [23 citations]
81. Minoia, F., Bovis, F., Davi, S., Insalaco, A., Lehmborg, K., Shenoi, S., Weitzman, S., Espada, G., Gao, Y-J., Anton, J., Kitoh, T., Kasapcopur, O., Sanner, H., Merino, R., Astigarraga, I., Alessio, M., Jeng, M., Chasnyk, V., Nichols, K.E., Huasong, Z., Li, C., Micalizzi, C., Ruperto, N., Martini, A., **Cron, R.Q.**, Ravelli, A., and Horne, A. 2017. Development and Initial Validation of the Macrophage Activation Syndrome/Primary Hemophagocytic Lymphohistiocytosis Score, a Diagnostic Tool that Differentiates Primary Hemophagocytic Lymphohistiocytosis from Macrophage Activation Syndrome. *J. Pediatr.* 189:72-78 [featured in the editorial: Grom, A.A. 2017. Primary Hemophagocytic Lymphohistiocytosis and Macrophage Activation Syndrome: The Importance of Timely Clinical Differentiation. *J. Pediatr.* 189:19-21] [18 citations]
82. Hugel, B., Spiegel, L., Hotte, J., Wiens, S., Herlin, T., **Cron, R.Q.**, Stoll, M.L., Vinod, S., Stoustrup, P., Pederson, T.K., and Twilt, M. 2017. Isolated arthritis of the temporomandibular joint as the initial manifestation of juvenile idiopathic arthritis. *J. Rheumatol.* 44:1632-1635. [12 citations]
83. Bernatsky, S., Clarke, A.E., Niaki, O.Z., Labreque, J., Schanberg, L.E., Silverman, E.D., Haward, K., Imundo, L., Brunner, H.I., Haines, K.A., **Cron, R.Q.**, Oen, K., Wagner-Weiner, L., Rosenberg, A.M., O'Neil, K.M., Duffy, C.M., von Scheven, E., Joseph, L., Lee, J.L., and Ramsey-Goldman, R. 2017. Malignancy in pediatric-onset systemic lupus erythematosus. *J. Rheumatol.* 44:1484-1486. [4 citations]
84. Stoll, M.L., Grubbs, J.A., Beukelman, T., Mannion, M.L., Jester, T.W., **Cron, R.Q.**, and Crain, M.J. 2017. Risk of tuberculosis among Alabama children and adolescents taking tumor necrosis factor inhibitors: a retrospective study. *Pediatr. Rheumatol. Online J.* 15:79. [3 citations]
85. Zhang, M., Robinson, T.O., Duverger, A., Kutsch, O., Heath, S.L., and **Cron, R.Q.** 2018. Regulatory CD4 T cells inhibit HIV-1 expression of other CD4 T cell subsets via interactions with cell surface regulatory proteins. *Virology* 516:21-29. [4 citations]
86. Stoll, M.L., Guleria, S., Mannion, M.L., Young, D.W., Royal, S.A., **Cron, R.Q.**, and Vaid, Y.N. 2018. Defining the normal appearance of temporomandibular joints by magnetic resonance imaging with contrast: a comparative study of children with and without juvenile idiopathic arthritis. *Pediatr. Rheumatol. Online J.* 16:8. [5 citations]
87. Stoll, M.L., Weiss, P.F., Weiss, J.E., Nigrovic, P.A., Edelheit, B., Bridges, S.L., Danila, M., Spencer, C., Punaro, M., Schikler, K., Reiff, A., Kumar, R., **Cron, R.Q.**, Morrow, C.D., and Lefkowitz, E.F. 2018. Age and fecal microbial strain specific differences in patients with spondyloarthritis. *Arthritis Res. Therapy* 20:14. [19 citations]
88. Schulert, G.S., Minoia, F., Bohnsack, J., **Cron, R.Q.**, Hashad, S., Kone-Paut, I., Kostik, M., Lovell, D., Maritsi, D., Nigrovic, P.A., Pal, P., Ravelli, A., Shimizu, M., Stanevicha, V., Vastert, S., Woerner, A., De Benedetti, F., and Grom, A.A. 2018. Effect of biologic therapy on clinical and laboratory features of macrophage activation syndrome associated with systemic juvenile idiopathic arthritis. *Arthritis Care Res.* 70:409-419. [31 citations]

89. Vinod, S.S., Reed, A.B., Maxwell, J., **Cron, R.Q.**, and Stoll, M.L. 2018. Pediatric rheumatology infusion center: report on therapeutic protocols and infusions given over 4 years with focus on adverse events over 1 year. *Pediatr. Rheumatol. Online J.* 16:16. **[3 citations]**
90. Tolend, M., Twilt, M., **Cron, R.Q.**, Tzariabachev, N., Guleria, S., von Kalle, T., Koos, B., Miller, E., Stimec, J., Vaid, Y., Larheim, T., Herlin, T., Spiegel, L., Inarejos, E., Moineddin, R., van Rossum, M., Suarenmann, R.K., Doria, A.S., and Kellenberger, C.J. 2018. Towards establishing a standardized magnetic resonance image interpretation protocol for temporomandibular joints in juvenile idiopathic arthritis: preliminary data from the OMERACT special interest group of MRI in JIA. *Arthritis Care Res.* 70:758-767. **[11 citations]**
91. Schulert, G.S., Zhang, M., Husami, A., Fall, N., Brunner, H., Zhang, K., **Cron, R.Q.***, and Grom, A.A. 2018. Novel *UNC13D* intronic variant altering a NFκB enhancer in a patient with recurrent macrophage activation syndrome and systemic juvenile idiopathic arthritis. *Arthritis Rheumatol.* 70:963-970. (* - co-senior author) **[7 citations]**
92. Lovell, D.J., Johnson, A.L., Spalding, S.J., Zeft, A., Gottlieb, B.S., Morris, P.W., Kimura, Y., Onel, K., Li, S.C., Grom, A.A., Taylor, J., Brunner, H.I., Huggins, J.L., Nocton, J.J., Haines, K.A., Edelheit, B.S., Shishov, M., Jung, L.K., Williams, C.B., Teshler, M.S., Costanzo, D.M., Zemel, L.S., Dare, J.A., Passo, M.H., Ede, K.C., Olson, J.C., Cassidy, E.A., Griffin, T.A., Wagner-Weiner, L., Weiss, J.E., Vogler, L.B., Rouster-Stevens, K.A., Beukelman, T., **Cron, R.Q.**, Kietz, D., Schmidt, K.M., Schikler, K., Wahezi, D.M., Mehta, J., Ilowite, N., Ting, T.V., Verbsky, J.W., Eberhard, A.B., Huang, B., and Giannini, E.H. 2018. Risk, timing and predictors of disease flare after discontinuation of anti-TNF therapy in children with polyarticular forms of juvenile idiopathic arthritis (JIA) in clinical inactive disease. *Arthritis Rheumatol.* 70:1508-1518. **[6 citations]**
93. Stoll, M.L., Amin, D., Powell, K.K., Poholek, C.H., Strait, R.H., Aban, I., Beukelman, T., Young, D.W., **Cron, R.Q.**, and Waite, P.D. 2018. Risk factors for intraarticular heterotopic bone formation in the temporomandibular joint in juvenile idiopathic arthritis. *J. Rheumatol.* 45:1301-1307. [featured in the editorial: Stoustrup, P., Twilt, M., and Resnick, C.M. 2018. Management of temporomandibular joint arthritis in JIA: Tradition-based or Evidence-based? *J. Rheumatol.* 45:1205-1207. **[8 citations]**
94. Crayne, C.B., Eloiseily, E.M., Mannion, M.L., Azert, S.P., Weiser, P., Beukelman, T., Stoll, M.L., Feig, D.I., Atkinson, T.P., and **Cron, R.Q.** 2018. Rituximab treatment for chronic steroid-dependent Henoch-Schonlein purpura: 8 cases and a review of the literature. *Pediatr. Rheumatol. Online J.* 16:71. **[10 citations]**
95. Hinze, C.H., Foel, D., Roth, J., Johnson, A.L., Spalding, S.J., Zeft, A., Gottlieb, B.S., Morris, P.W., Kimura, Y., Onel, K., Li, S.C., Grom, A.A., Taylor, J., Brunner, H.I., Huggins, J.L., Nocton, J.J., Haines, K.A., Edelheit, B.S., Shishov, M., Jung, L.K., Williams, C.B., Teshler, M.S., Costanzo, D.M., Zemel, L.S., Dare, J.A., Passo, M.H., Ede, K.C., Olson, J.C., Cassidy, E.A., Griffin, T.A., Wagner-Weiner, L., Weiss, J.E., Vogler, L.B., Rouster-Stevens, K.A., Beukelman, T., **Cron, R.Q.**, Kietz, D., Schmidt, K.M., Schikler, K., Wahezi, D.M., Mehta, J., Ting, T.V., Verbsky, J.W., Eberhard, A.B., Giannini, E.H., and Lovell, D.J. 2019. Serum S100A8/A9 and S100A12 Levels in Children With Polyarticular Forms of Juvenile Idiopathic Arthritis: Relationship to

- Maintenance of Clinically Inactive Disease During Anti-Tumor Necrosis Factor Therapy and Occurrence of Disease Flare After Discontinuation of Therapy. *Arthritis Rheumatol.* 71:451-459. [7 citations]
96. Stoll, M.L., Pierce, M.K., Watling, J., Zhang, M., Weiss, P.F., Weiss, J.E., Duck, L.W., Elson, C.O., **Cron, R.Q.**, Kumar, R., Morrow, C.D., and Schoeb, T.R. 2019. *Akkermansia muciniphila* is permissive to arthritis in the K/BxN mouse model of arthritis. *Genes Immun.* 20:158-166. [7 citations]
97. Stoustrup, P., Resnick, C.M., Pederson, T.K., Abramowicz, S., Michelotti, A., Kuseler, A., Verna, C., Kellenberger, C., Nordal, E.B., Caserta, G., Jankovska, I., Halbig, J.M., Kristensen, K.D., Arvidsson, L.Z., Spiegel, L., Stoll, M.L., Lerman, M., Glerup, M., Defabianis, P., Frid, P., Alstergren, P., **Cron, R.Q.**, Ringold, S., Norholt, S.E., Peltomaki, T., Herlin, T., Peacock, Z., Twilt, M., on behalf of the TMJ Juvenile Arthritis Working group (TMJaw). 2019. Standardizing terminology and assessment for orofacial conditions in juvenile idiopathic arthritis: international, multidisciplinary consensus based recommendations. *J. Rheumatol.* 46:518-522. [Editor's Pick] [9 citations]
98. Eloiseily, E.M., Minoia, F., Crayne, C.B., Beukelman, T., Ravelli, A., and **Cron, R.Q.** 2019. Ferritin to erythrocyte sedimentation rate ratio: simple measure to identify macrophage activation syndrome in systemic juvenile idiopathic arthritis. *ACR Open Rheumatol.* 1:345-349. [among the top 10% most downloaded papers at *ACR Open Rheumatology*] [12 citations]
99. Minoia, F., Bovis, F., Davi, S., Horne, A., Fischbach, M., Frosch, M., Huber, A., Jelusic-Drazic, M., Sawhney, S., McCurdy, D., Silva, C.A., Rigante, D., Unsal, E., Ruperto, N., Martini, A., **Cron, R.Q.**, and Ravelli, A. 2019. Development and initial validation of the MS score for diagnosis of macrophage activation syndrome in systemic juvenile idiopathic arthritis. *Ann. Rheum. Dis.* 78:1357-1362. [15 citations]
100. Mitchell, C., Crayne, C.B., and **Cron, R.Q.** 2019. Patterns of B cell repletion following rituximab therapy in a pediatric rheumatology cohort. *ACR Open Rheumatol.* 1:527-532.
101. Saper, V.E., Chen, G., Deutsch, G.H., Guillerman, R.P., Birgmeier, J., Jagadeesh, K., Canna, S., Schulert, G., Deterding, R., Xu, J., Leung, A.N., Bouzoubaa, L., Abulaban, K., Baszis, K., Behrens, E., Birmingham, J., Casey, A., Cidon, M., **Cron, R.Q.**, De, A., De Benedetti, F., Ferguson, I., Fishman, M.P., Goodman, S.I., Graham, T.B., Grom, A.A., Haines, K., Hazen, M., Henderson, L.A., Ho, A., Ibarra, M., Inman, C.J., Jerath, R., Khawaja, K., Kingsbury, D.J., Klein-Gitelman, M., Lai, K., Lapidus, S., Lin, C., Lin, J., Liptzin, D.R., Milojevic, D., Mombourquette, J., Onel, K., Ozen, S., Perez, M., Phillippi, K., Prahalad, S., Radhakrishna, S., Reinhardt, A., Riskalla, M., Rosenwasser, N., Roth, J., Schneider, R., Schonenberg-Meinema, D., Sheno, S., Smith, J.A., Sonmez, H.E., Stoll, M.L., Towe, C., Vargas, S.O., Vehe, R., Young, L.R., Yang, J., Desai, T., Balise, R., Lu, Y., Tian, L., Bejerano, G., Davis, M.M., Khatri, P., and Mellins, E.D. 2019. Emergent high fatality lung disease in systemic juvenile arthritis. *Ann. Rheum. Dis.* 78:1722-1731. [20 citations]
102. Eloiseily, E.M., Weiser, P., Crayne, C.B., Haines, H.L., Mannion, M.L., Stoll, M.L., Beukelman, T., Atkinson, T.P., and **Cron, R.Q.** 2020. Benefit of anakinra in treating pediatric secondary hemophagocytic lymphohistiocytosis. *Arthritis Rheumatol.* 72:326-334. [featured in the editorial: Nikiforow, S., and Berliner, N. 2020. To “lump” or “split”

- in macrophage activation syndrome and hemophagocytic lymphohistiocytosis. *Arthritis Rheumatol.* 72:206-209.] [Highlighted in “In this Issue, Highlights from this issue of *A&R*”] [29 citations]
103. Reiff, D., Crayne, C.B., Mannion, M.L., and **Cron, R.Q.** 2020. Characteristics of coexisting localized scleroderma and inflammatory arthritis. *Eur. J. Rheumatol.* 7 (Suppl 1):S67-S71. [1 citation]
104. Ferrara, G., Giani, T., Lieberman, S.M., Hong, S., Indolfi, G., Schulert, G., **Cron, R.Q.**, Mannion, M.L., Lapidus, S., Jacquemin, E., Kone-Paut, I., and Cimaz, R. 2020. Alagille syndrome and chronic arthritis: an international case series. *J. Pediatr.* 218:228-230.
105. Mehta, P., **Cron, R.Q.**, Hartwell, J., Manson, J.J., and Tattersall, R.S. 2020. Silencing the cytokine storm: the use of intravenous anakinra in haemophagocytic lymphohistiocytosis or macrophage activation syndrome. *Lancet Rheumatol.* 2:e358-e367. [18 citations]
106. Bami, S., Vagreicha, A., Soberman, D., Badawi, M., Cannone, D., Lipton, J.M., **Cron, R.Q.**, and Levy, C.F. 2020. The use of anakinra in the treatment of secondary hemophagocytic lymphohistiocytosis. *Pediatr. Blood Cancer* 67:e28581.

CASE REPORTS/SERIES AND LETTERS:

107. **Cron, R.Q.**, and Sherry, D.D. 1995. Reiter’s syndrome associated with cryptosporidial gastroenteritis. *J. Rheumatol.* 22:1962-1963. [26 citations]
108. **Cron, R.Q.**, and Webb, K.H. 1995. Necrobacillosis: an unusual cause of purulent otitis media and sepsis. *Pediatr. Emerg. Care* 11:379-380. [7 citations]
109. Bauman, C., **Cron, R.Q.**, Sherry, D.D., and Francis, J. 1996. Reiter syndrome initially misdiagnosed as Kawasaki disease. *J. Pediatr.* 128:366-369. [15 citations]
110. **Cron, R.Q.**, Benjamin, D.R., and Sherry, D.D. 1996. Picture of the month. Polyarteritis nodosa with angioedema. *Arch. Pediatr. Adolesc. Med.* 150:875-876. [Submitted photos were published on the cover of this journal issue.] [2 citations]
111. **Cron, R.Q.**, and Gordon, P.V. 1997. Reactive arthritis to *Clostridium difficile* in a child. *West. J. Med.* 166:419-421. [18 citations]
112. **Cron, R.Q.**, Wallace, C.A., and Sherry, D.D. 1997. Childhood sarcoidosis -- does age of onset predict clinical manifestations? [letter]. *J. Rheumatol.* 24:1654-1655. [6 citations]
113. **Cron, R.Q.**, Sherry, D.D., and Wallace, C.A. 1998. Methotrexate-induced hypersensitivity pneumonitis in a child with juvenile rheumatoid arthritis. *J. Pediatr.* 132:901-902. [49 citations]
114. **Cron, R.Q.** 1998. Hypersensitivity pneumonitis in a child: a case report. *React. Wkly.* 708:7-8.
115. **Cron, R.Q.**, and Finkel, T.H. 2000. Nabumetone induced pseudoporphyria in childhood [letter]. *J. Rheumatol.* 27:1817-1818. [9 citations]
116. **Cron, R.Q.** 2000. Pseudoporphyria in a child: a case report. *React. Wkly.* 816:10.
117. Rettig, P., and **Cron, R.Q.** 2003. Methotrexate as a steroid-sparing agent in non-renal chronic Henoch-Schönlein purpura. *Clin. Exp. Rheumatol.* 21:767-769. [15 citations]
118. Trigone, D., Rettig, P., Finkel, T.H., and **Cron, R.Q.** 2005. Graves disease and juvenile idiopathic arthritis. *Pediatr. Rheumatol. Online J.* 3:226-228.
119. Burnham, J.M., and **Cron, R.Q.** 2005. Sweet syndrome as an initial presentation in a child with systemic lupus erythematosus [letter]. *Lupus* 14:974-975. [18 citations]

120. Fitch, P.G., and **Cron, R.Q.** 2006. Septic abscess in a child with juvenile idiopathic arthritis receiving anti-tumor necrosis factor- α therapy [letter]. *J. Rheumatol.* 33:825-826. **[8 citations]**
121. Pessler, F., Monash, B., Rettig, P., Forbes, B., Krieger, P.A., and **Cron, R.Q.** 2006. Sjogren syndrome in a child: favorable response of the arthritis to TNF α blockade. *Clin. Rheumatol.* 25:746-748. **[19 citations]**
122. Behrens, E.M., Kreiger, P.A., Cherian, S., and **Cron, R.Q.** 2006. Interleukin-1 receptor antagonist to treat cytophagic histiocytic panniculitis with secondary hemophagocytic lymphohistiocytosis. *J. Rheumatol.* 33:2081-2084. **[46 citations]**
123. **Cron, R.Q.**, and Sullivan, K.E. 2006. Chronic arthritis without uveitis in velocardiofacial syndrome [letter]. *J. Pediatr.* 149:281. **[3 citations]**
124. Burnham, J.M., Kreiger, P.A., Paessler, M., Kersun, L.S., and **Cron, R.Q.** 2006. Picture of the month. Anaplastic large cell lymphoma with hemophagocytic lymphohistiocytosis. *Arch. Pediatr. Adolesc. Med.* 160:1177-1179. **[4 citations]**
125. Behrens, E.M., Beukelman, T., and **Cron, R.Q.** 2007. JIA classification criteria: loopholes and diagnosis software [letter]. *J. Rheumatol.* 34:234. **[11 citations]**
126. Arabshahi, B., Baskin, K.M., and **Cron, R.Q.** 2007. Reactive arthritis of the temporomandibular joints and cervical spine in a child: Case Report. *Pediatr. Rheumatol. Online J.* 5:4. **[3 citations]**
127. Von Feldt, J.M, Latif, S., Genin, A., and **Cron, R.Q.** 2008. Neither cell-surface nor soluble CD154 levels are associated with coronary artery disease in systemic lupus erythematosus [letter]. *J. Rheumatol.* 35:359-360.
128. **Cron, R.Q.** 2009. Shock syndrome, or macrophage activation syndrome, in children with Kawasaki disease. [E-letter], *Pediatrics* (May 13, 2009), <http://pediatrics.aappublications.org/cgi/eletters/123/5/e783> (accessed May 13, 2009). **[1 citation]**
129. Record, J.L., Beukelman, T., and **Cron, R.Q.** 2011. Combination therapy of abatacept and anakinra in children with refractory systemic juvenile idiopathic arthritis: a retrospective case series [letter]. *J. Rheumatol.* 38:179-181. **[50 citations]**
130. Fain, E.T., Atkinson, G.P., Weiser, P., Beukelman, T., and **Cron, R.Q.** 2011. Temporomandibular joint arthritis in pediatric Sjogren disease and sarcoidosis. *J. Rheumatol.* 38:2272-2273. **[5 citations]**
131. Mannion, M.L., and **Cron, R.Q.** 2011. Successful treatment of pediatric IgG4 related systemic disease with mycophenolate mofetil: case report and a review of the pediatric autoimmune pancreatitis literature. *Pediatr. Rheumatol. Online J.* 9:1. **[42 citations]**
132. Miettunen, P.M., Narendran, A., Jayanthan, A., Behrens, E.M., and **Cron, R.Q.** 2011. Successful treatment of severe paediatric rheumatic disease-associated macrophage activation syndrome with interleukin-1 inhibition following conventional immunosuppressive therapy: case series with 12 patients [letter]. *Rheumatol. (Oxford)*. 50:417-419. **[145 citations] F1000**
133. Moller, J.C., **Cron, R.Q.**, Young, D.W., Girschick, H.J., Levy, D., Sherry, D.D., Kukita, A., Saijo, K., and Pessler, F. 2011. Corticosteroid-induced spinal epidural lipomatosis in the pediatric age group: report of a new case and updated analysis of the literature. *Pediatr. Rheumatol. Online J.* 9:5. **[15 citations]**

134. Beukelman, T., **Cron, R.Q.**, Patkar, N.M., Saag, K.G., DeWitt, E.M., Lovell, D.J., Ilowite, N.T., Kimura, Y., Laxer, R.M., Martini, A., Ruperto, N., and Rabinovich, C.E. 2011. 2011 ACR recommendations for the treatment of JIA: Author reply to the comment by professor Huppertz. *Arthritis Care Res.* 63:1355-1356. [4 citations]
135. Fain, E.T., Mannion, M.L., Pope, E., Young, D.W., Laxer, R.M., and **Cron, R.Q.** 2011. Brain cavernomas associated with en coup de sabre linear scleroderma: two case reports. *Pediatr. Rheumatol. Online J.* 9:18. [18 citations]
136. Mehta, J., and **Cron, R.Q.** 2012. NFATc1 (NFAT2) is increased in murine and human lupus T cells [letter]. *Arthritis Rheum.* 64:1294. [1 citation]
137. Mannion, M., Zolak, M., Kelly, D.R., Beukelman, T., and **Cron, R.Q.** 2012. Sarcoidosis in a young child with Alagille syndrome: a case report. *Pediatr. Rheumatol. Online J.* 10:32. [1 citation]
138. Mannion, M.L., and **Cron, R.Q.** 2012. Intensive care requirement, rather than degree of serum ferritin elevation, predicts mortality in macrophage activation syndrome [letter]. *Pediatr. Crit. Care Med.* 13:616-617. [2 citations]
139. Crayne, C.B., Gerhold, K., and **Cron, R.Q.** 2013. Anaphylaxis to etanercept in 2 children with juvenile idiopathic arthritis. *J. Clin. Rheumatol.* 19:129-131. [8 citations]
140. Kahn, P.J., and **Cron, R.Q.** 2013. Higher dose anakinra is effective in a case of medically refractory macrophage activation syndrome [letter]. *J. Rheumatol.* 40:743-744. [33 citations]
141. Donnithorne, K.J., Read, R.W., Lowe, R., Weiser, P., **Cron, R.Q.**, and Beukelman, T. 2013. Retinal vasculitis in two pediatric patients with systemic lupus erythematosus: a case report. *Pediatr. Rheumatol. Online J.* 11:25. [14 citations]
142. Shafferman, A., Birmingham, J.D., and **Cron, R.Q.** 2014. High dose anakinra for treatment of severe neonatal Kawasaki disease: a case report. *Pediatr. Rheumatol. Online J.* 12:26. [54 citations]
143. Kostik, M.M., Likhacheva, T.S., Chikova, I.A., Buchinskaya, N.V., Abramova, N.N., Kalashnikova, O.V., **Cron, R.Q.**, and Chasnyk, V.G. 2014. Higher-dose canakinumab therapy for refractory macrophage activation syndrome in children with systemic juvenile idiopathic arthritis: two case reports. *Pediatrician (Pediatr Sankt-Peterburg)* 5:14-19. [1 citation]
144. Peng, T., Kwong, J.M., **Cron, R.Q.**, Chefitz, D., Mohiuddin, A., Craig, V., Weissmann, D., Weiss, P.F., Andujar, J., and Moorthy, L.N. 2015. Treatment of refractory macrophage activation syndrome in systemic juvenile idiopathic arthritis with high dose anakinra. *J. Rheum. Dis. Treat.* 1:014.
145. Mannion, M.L., McAllister, L., **Cron, R.Q.**, and Stoll, M.L. 2016. Ustekinumab as a therapeutic option for children with refractory enthesitis-related arthritis: a case series. *J. Clin. Rheumatol.* 22:282-284. [6 citations]
146. **Cron, R.Q.**, and Chatham, W.W. 2016. Development of spondyloarthropathy following episodes of macrophage activation syndrome in children with heterozygous mutations in hemophagocytic lymphohistiocytosis-associated genes [letter]. *Clin. Exp. Rheumatol.* 34:953. [2 citations]
147. Wiener, J., and **Cron, R.Q.** 2020. Successful treatment of pediatric Tolosa-Hunt syndrome with adalimumab. *Eur. J. Rheumatol.* 7 (Suppl 1):S82-S84. [3 citations]

148. Hammett, E.K., Fernandez-Carbonell, C., Crayne, C., Boneparth, A., **Cron, R.Q.**, and Radhakrishna, S.M. 2020. Adolescent Sjogren's syndrome presenting as psychosis: a case series. *Pediatr. Rheumatol. Online J.* 18:15.
149. Saper, V.E., Chen, G., Guillerman, P.R., Khatri, P., **Cron, R.Q.**, and Mellins, E.D. 2020. Response to: Successful treatment of plasma exchange for refractory systemic juvenile idiopathic arthritis complicated with macrophage activation syndrome and severe lung disease: a case report by *Sato et al. Ann. Rheum. Dis., in press.*
150. **Cron, R.Q.**, and Chatham, W.W. 2020. The question of whether to remain on therapy for chronic rheumatic diseases in the setting of the Covid-19 pandemic. *J. Rheumatol.* 47:??.
[4 citations]
151. Chatham, W.W., and **Cron, R.Q.** 2020. Drs. Cron and Chatham reply. *J. Rheumatol.* 47:??.
[1 citation]
152. **Cron, R.Q.**, and Chatham, W.W. 2020. Drs. Cron and Chatham reply. *J. Rheumatol.* 47:??.
153. Mehta, P., **Cron, R.Q.**, Hartwell, J., Manson, J.J., and Tattersall, R. 2020. Intravenous anakinra for cytokine storm syndromes – Authors' reply. *Lancet Rheumatol.* 2:e522-e523.

COLLABORATIVE AND STUDY GROUP CONTRIBUTIONS:

154. Mamyrova, G., O'Hanlon, T.P., Sillers, L., Malley, K., James-Newton, L., Parks, C.G., Cooper, G.S., Pandey, J.P., Miller, F.W., Rider, L.G. and **Childhood Myositis Heterogeneity Collaborative Study Group [Cron, R.Q.]**. 2008. Cytokine gene polymorphisms as risk and severity factors for juvenile dermatomyositis. *Arthritis Rheum.* 58:3941-3950. **[57 citations]**
155. Ardoin, S.P., Schanberg, L.E., Sandborg, C., Yow, E., Barnhart, H.X., Mieskalski, K., Ilowite, N.T., von Scheven, E., Eberhard, A., Levy, D.M., Kimura, Y., Silverman, E., Bowyer, S.L., Punaro, L., Singer, N.G., Sherry, D.D., McCurdy, D., Klein-Gitelman, M., Wallace, C., Silver, R., Wagner-Weiner, L., Higgins, G.C., Brunner, H.I., Jung, L.K., Imundo, L., Soep, J.B., Reed, A.M., and **APPLE investigators [Cron, R.]**. 2010. Laboratory markers of cardiovascular risk in pediatric SLE: the APPLE baseline cohort. *Lupus* 19:1315-1325. **[29 citations]**
156. Rider, L.G., Wu, L., Mamyrova, G., Targoff, I.N., Miller, F.W. and **Childhood Myositis Heterogeneity Collaborative Study Group [Cron, R.Q.]**. 2010. Environmental factors preceding illness onset differ in phenotypes of the juvenile idiopathic inflammatory myopathies. *Rheumatol. (Oxford)* 49:2381-2390. **[28 citations]**
157. Wallace, C.A, Giannini, E.H., Huang, B., Itert, L., and Ruperto, N. **Childhood Arthritis Rheumatology Research Alliance [Cron, R.]; Pediatric Rheumatology Collaborative Study Group**; Paediatric Rheumatology International Trials Organization. 2011. American College of Rheumatology provisional criteria for defining clinical inactive disease in select categories of juvenile idiopathic arthritis. *Arthritis Care Res.* 63:929-936. **[234 citations]**
158. Shah, M., Mamyrova, G., Targoff, I.N., Huber, A. M., Malley, J.D., Rice, M.M., Miller, F.W., Rider, L.G., with the **Childhood Myositis Heterogeneity Collaborative Study**

- Group [Cron, R.Q.]**. 2013. The clinical phenotypes of the juvenile idiopathic inflammatory myopathies. *Medicine (Baltimore)* 92:25-41. [**84 citations**]
159. Shah, M., Targoff, I.N., Rice, M.M., Miller, F.W., Rider, L.G., with the **Childhood Myositis Heterogeneity Collaborative Study Group [Cron, R.Q.]**. 2013. Brief report: ultraviolet radiation exposure is associated with clinical and autoantibody phenotypes in juvenile myositis. *Arthritis Rheum.* 65:1934-1941. [**40 citations**]
160. Rider, L.G., Shah, M., Mamyrova, G., Huber, A.M., Rice, A.M., Targoff, I.N., Miller, F.W. with the **Childhood Myositis Heterogeneity Collaborative Study Group [Cron, R.Q.]**. 2013. The myositis autoantibody phenotypes of the juvenile idiopathic inflammatory myopathies. *Medicine (Baltimore)* 92:223-243. [**124 citations**]
161. Huber, A.M., Mamyrova, G., Lachenbruch, P.A., Lee, J.A., Katz, J.D., Targoff, I.N., Miller, F.W., Rider, L.G., for the **Childhood Myositis Heterogeneity Study Group [Cron, R.Q.]**. 2014. Early illness features associated with mortality in the juvenile idiopathic inflammatory myopathies. *Arthritis Care Res.* 66:732-740. [**39 citations**]
162. Rouster-Stevens, K.A., Ardoin, S.P., Cooper, A.M., Becker, M.L., Dragone, L.L., Huttenlocher, A., Jones, K.B., Kolba, K.S., Moorthy, L.N., Nigrovic, P.A., Stinson, J.N., Ferguson, P.J., for the **American College of Rheumatology Pediatric Rheumatology Core Membership Group [Cron, R.]**. 2014. Choosing wisely: The American College of Rheumatology's top 5 for pediatric rheumatology. *Arthritis Care Res.* 66:649-657. [**10 citations**]
163. Habers, G.E., Huber, A.M., Mamyrova, G., Targoff, I.N., O'Hanlon, T.P., Adams, S., Pandey, J.P., Boonacker, C., van Brussel, M., Miller, F.W., van Royen-Kerkhof, A., Rider, L.G., for the **Childhood Myositis Heterogeneity Study Group [Cron, R.Q.]**. 2016. Brief report: association of myositis autoantibodies, clinical features, and environmental exposures at illness onset with disease course in juvenile myositis. *Arthritis Rheumatol.* 68:761-768. [**27 citations**]
164. Kishi, T., Rider, L.G., Pak, K., Barillas-Arias, L., Henrickson, M., McCarthy, P.L., Shaham, B., Weiss, P., Horkayne-Szekaly, I., Targoff, I.N., Miller, F.W., and Mammen, A.L., for the **Childhood Myositis Heterogeneity Study Group [Cron, R.Q.]**. 2017. Association of anti-hydroxy-3-methylglutaryl-coenzyme A reductase autoantibodies with DRB1*07:01 and severe myositis in juvenile myositis patients. *Arthritis Care Res.* 69:1088-1094. [**32 citations**]
165. Mink, R., Schwartz, A., Carraccio, C., High, P., Dammann, C., McGann, K.A., Kesselheim, J., and Herman, B. and the Steering Committee of the Subspecialty Pediatrics Investigator Network, with the **Fellowship Program Director Collaborators [Cron, R.]**. 2018. Creating the Subspecialty Pediatrics Investigator Network. *J. Pediatr.* 192:3-4.e2. [**1 citation**]
166. Yecker, R.M., Pinal-Fernandez, I., Kishi, T., Pak, K., Targoff, I.N., Miller, F.W., Rider, L.G., and Mammen, A.L., for the **Childhood Myositis Heterogeneity Collaborative Study Group [Cron, R.Q.]**. 2018. Anti-NT5C1A autoantibodies are associated with more severe disease in patients with juvenile myositis. *Ann. Rheum. Dis.* [Epub ahead of print] [**9 citations**]
167. Brunner, H.I., Holland, M.J., Beresford, M.W., Ardoin, S.P., Appenzeller, S., Silva, C.A., Flores, F., Goilav, B., Avar Aydin, P.O., Wenderfer, S.E., Levy, D.M., Ravelli, A.,

- Khubchandani, R., Avcin, T., Klein-Gitelman, M.S., Ruperto, N., Feldman, B.M., Ying, J.; Paediatric Rheumatology International Trial Organisation and **Pediatric Rheumatology Collaborative Study Group [Cron, R.]**. 2019. American College of Rheumatology Provisional Criteria for Clinically Relevant Improvement in Children and Adolescents With Childhood-Onset Systemic Lupus Erythematosus. *Arthritis Care Res. (Hoboken)*. 71:579-590. [1 citation]
168. Leong, J.Y., Chen, P., Yeo, J.G., Ally, F., Chua, .C, Nur Hazirah, S., Poh, S.L., Pan, L., Lai, L., Lee, E.S.C., Bathi, L.D.T., Arkachaisri, T., Lovell, D., Albani, S.; **Pediatric Rheumatology Collaborative Study Group [Cron, R.Q.]**. 2019. Immunome perturbation is present in patients with juvenile idiopathic arthritis who are in remission and will relapse upon anti-TNF α withdrawal. *Ann Rheum Dis*. 78:1712-1721. [1 citation]
169. Stoustrup, P., Herlin, T., Spiegel, L., Rahimi, H., Koos, B., Pedersen, T.K., Twilt, M., on behalf of the **Temporomandibular joint Juvenile Arthritis Work group (TMJaw) [Cron, R.Q.]**. 2020. Standardizing the clinical orofacial examination in juvenile idiopathic arthritis: an interdisciplinary, consensus-based, short screening protocol. *J. Rheumatol., in press*.

PhD THESIS (Advisor: Jeffrey A. Bluestone, PhD):

170. **Cron, R.Q.** 1990. Identification and characterization of murine TCR $\gamma\delta$ -expressing peripheral T cells, Ph.D. Thesis. University of Chicago, IL, 245 pages.

MANUSCRIPTS IN PRESS OR ACCEPTED:

171. Dulek, D.E., Fuhlbrigge, R.C., Tribble, A.C., Connelly, J.A., Loi, M.M., El Chebib, H., Chandrakasan, S., Otto, W.R., Diorio, C., Keim, G., Walkovich, K., Jaggi, P., Giroto, J.E., Yarbrough, A., Behrens, E.M., **Cron, R.Q.**, and Bissiri, H. 2020. Multidisciplinary guidance regarding the use of immunomodulatory therapies for acute COVID-19 in pediatric patients. *J. Pediatr. Infect. Dis. Soc., in press*.
172. Trieu, C., Poole, C., **Cron, R.Q.**, Halmman, M., Rutledge, C., Bliton, K., Phillips, A., Lawrence, M., Boppana, S.B., and Pinninti, S. 2020. Severe neonatal COVID-19 presenting as ARDS. *Pediatr. Infect. Dis. J., accepted*.

MANUSCRIPTS SUBMITTED BUT NOT YET ACCEPTED:

173. Shakoory, B., Sanders, R.D., Chatham, W.W., Reddy, V.B., and **Cron, R.Q.** 2020. CD163 immunostaining of diagnostic bone marrow biopsies in SLE patients reveals high frequency of hemophagocytosis and hemophagocytic syndrome. *Arthritis Res. Ther., submitted*.
174. Avant, L., Tambralli, A., Jester, T.W., Beukelman, T., Dimmitt, R.A., **Cron, R.Q.**, and Stoll, M.L. 2020. High dose infliximab for pediatric inflammatory bowel disease: a retrospective study. *Pediatr. Rheumatol. Online J., provisionally accepted*.
175. Seu, L., Sabbaj, S., Timares, L., Tidwell, C., Moylan, D.C., Dalecki, A., Duverger, A., Wagner, F.H., Carlin, E., Henderson, A.J., **Cron, R.Q.**, and Kutsch, O. 2020. Higher frequencies of CD4+ CD151+ T cells in HIV-1 patients on successful antiretroviral therapy. *AIDS, submitted*.

176. Duverger, A., Seu, L., Zhang, M., Shi, B., Sabbaj, S., Tidwell, C., Wagner, F., Schaaf, K., Smith, S., Liu, Z., Wolschendorf, F., Hu, H., **Cron, R.Q.**, Sun, J., and Kutsch, O. 2020. Temporary reprogramming of activation-inert latently infected host cells to trigger efficient HIV-1 reactivation. *J. Virol.*, *submitted*.
177. Dalecki, A.G., Duverger, A., Carlin, E. Greer, B.D., Shen, R., Wagner, F., Shi, B., Strange, E., Kaczmarek Michaels, K., Giattina, S., Zhang, M. Bossmann, S, Wolschendorf, F., **Cron, R.Q.**, Henderson, A., Hu, H., and Kutsch, O. 2020. Comprehensive network analysis reveals host cell targets that control latent HIV-1 infection. *J. Virol.*, *provisionally accepted*.
178. Wolschendorf, F., Duverger, A., Wagner, F. Shi, B., Hu, H., Westfall, A., Marquez-Lago, T., Leier, A., Henderson, A., **Cron, R.Q.**, and Kutsch, O. 2020. Integration site bias of latent HIV-1 guides identification of c-maf as a latency reversing transcription factor. *mBio.*, *submitted*.
179. Kishi, T., Bayat, N., Ward, M.W., Huber, A.M., Wu, L., Mamyrova, G., Targoff, I.N., Warren-Hicks, W.J., Miller, F.W., and Rider, L.G., for the **Childhood Myositis Heterogeneity Study Group [Cron, R.Q.]**. 2020. Trends in and predictors of medication usage in patients with juvenile dermatomyositis. *Arthritis Rheumatol.*, *submitted*.
180. Moncrieffe, H., Fall, N., Luyrink, L.K., Tsoras, M., Johnson, A.L., Huggins, J.L., Ting, T.V., Henrickson, M., Griffin, T., Morris, P., Dare, J., Kimura, Y., Li, S.C., Spalding, S.J., Gottlieb, B.S., Nocton, J.J., Vogler, L.B., Prahald, S., Onel, K., Edelheit, B.S., Nigrovic, P.A., Becker, M.L., Shishov, M., Jung, L.K., O’Neil, K.M., Passo, M.H., Beukelman, T., Mehta, J., **Cron, R.Q.**, Brunner, H.I., Lovell, D.J., Thompson, S.D., and the “Gene Expression in Pediatric Arthritis” Study Investigators and the “Improved Understanding of the Biology and Use of TNF Inhibition in JIA” Study Investigators. 2020. A longitudinal study of the inflammatory biomarkers S100A12 and MRP8/14 in patients with juvenile idiopathic arthritis by commercially assay. *Rheumatol. (Oxford)*, *submitted*.
181. Tolend, M., Junhasavasdikul, T., **Cron, R.Q.**, Inarrejos Clemente, E.J., von Kalle, T., Kellenberger, C.J., Koos, B., Miller, E., van Rossum, M., Suarenmann, R.K., Spiegel, L., Stimec, J., Twilt, M., Tzariabachev, N., Abrmowicz, S., Appenzeller, S., Arvidsson, L.Z., Guleria, S., Jaremko, J.L., Kirkhus, E., Larheim, T.A., Myers, A.B., Pawar, J., Patel, H., Resnick, C.M., Shelmerdine, S.C., Tomlinson, G., Feldman B.M., and Doria, A.S. 2020. Using discrete choice experiment to determine the weights of items and grades in a magnetic resonance imaging scoring system for temporomandibular joints in juvenile idiopathic arthritis. *Arthritis Care Res.*, *submitted*.
182. Wilson, W.H., Waite, P.D., Alrajhi, Z., Kinard, B., Powell, K., and **Cron, R.Q.** 2020. Surgical management of juvenile idiopathic arthritis: temporomandibular joints and associated dentofacial deformities. *J. Craniofac. Surg.*, *submitted*.

MANUSCRIPTS IN PREPARATION:

183. Kau, C.H., Allareddy, V., Stoustrup, P., Pederson, T., Kinard, B., **Cron, R.Q.**, Stoll, M., Waite, P., Gilbert, G.H., and Makhija, S.K. 2020. Management of juvenile idiopathic arthritis – preliminary qualitative findings from the National Dental Practice-Based Research Network. *Am. J. Orthod. Dentofacial. Orthop.*, *in preparation*.

184. Reiff, D., Mannion, M.L., Samuy, N., Scalici, P., and **Cron, R.Q.** 2020. Distinguishing pediatric COVID-19 from MIS-C. *J. Hosp. Med, in preparation.*
185. Minoia, F., Tibaldi, J., Muratore, V., Gallizzi, R., Bracaglia, C., Arduini, A., Comak, E., Vougiouka, O., Trauzeddel, R., Filocamo, G., Micalizzi, C., Kasapcopur, O., Unsal, E., Kitoh, T., Tsitsamis, E., Kostik, M., **Cron, R.Q.**, Pachlopnik, J., Maritsi, D., Jelusic, M., Sheno, S., and Ravelli, A. 2020. A multinational study of thrombotic microangiopathy in macrophage activation syndrome: a dreadful condition which is likely underrecognized. *Arthritis Rheumatol., in preparation.*
186. Zhang, M., Cron, R.R., Eloiseily, E.M., Atkinson, T.P., and **Cron, R.Q.** 2020. A novel partial dominant-negative mutation in *DOCK8* contributes to decreased natural killer cell lytic function in a child with macrophage activation syndrome. *J. Immunol., in preparation.*
187. Zhang, M., Cron, R.R., and **Cron, R.Q.** 2020. Methodologies to genetically manipulate the human natural killer cell line NK-92 to study the biology of cytokine storm syndrome patient derived heterozygous mutations altering cytolytic activity. *J. Immunol. Methods., in preparation.*
188. Chatham, W.W., Behrens, E.M., Stoll, M.L., Absher, D., and **Cron, R.Q.** 2020. A phase II clinical trial exploring anakinra for cytokine storm syndrome. *Arthritis Rheumatol., in preparation.*
189. Chatham, W.W., Kamath, A.V., and **Cron, R.Q.** 2020. Rapidly assayed markers of inflammation to detect cytokine storm syndrome in hospitalized COVID-19 patients. *Annals Rheum. Dis., in preparation.*
190. Chatham, W.W., Kornman, K., Duff, G., Doucette, L., and **Cron, R.Q.** 2020. Interleukin-1 (IL-1) polymorphisms and associated IL-1 expression among COVID-19 patients. *Genes Immun., in preparation.*
191. Chatham, W.W., and **Cron, R.Q.** 2020. Benefit of anakinra in treating COVID-19 cytokine storm syndrome. *Lancet Rheumatol., in preparation.*
192. **Cron, R.Q.**, Absher, D., and Chatham, W.W. 2020. Genetics of COVID-19 cytokine storm syndrome. *J. Clin. Invest., in preparation.*
193. Chatham, W.W., and **Cron, R.Q.** 2020. Comparison of 2 different glucocorticoids in treating COVID-19 cytokine storm syndrome. *Lancet Rheumatol., in preparation.*
194. Wolschendorf, F., Duverger, A., Wagner, F., Hu, H., Marquez-Lago, T., Leier, A., Henderson, A., **Cron, R.Q.**, and Kutsch, O. 2020. Integration site bias provides evidence for a role of the cellular innate antiviral response in HIV-1 latency establishment. *J. Virol., submitted.*
195. Stoll, M.L., **Cron, R.Q.**, Beukelman, T., Lowe, R.M., Weiser, P., Mannion, M.L., Aban, I., Hayes, E., and Atkinson, T.P. 2020. Cesarean section is associated with decreased risk of juvenile idiopathic arthritis in the offspring. *Pediatr., in preparation.*
196. Minoia, F., Horne, A., Davi, S., Bovis, F., Rosina, S., Lehmberg, K., Weitzman, S., Insalaco, A., Wouters, C., Sheno, S., Espada, G., Ozen, S., Anton, J., Khubchandani, R., Russo, R., Ruperto, N., Martini, A., **Cron, R.Q.**, and Ravelli, A. 2020. Macrophage activation syndrome and familial hemophagocytic lymphohistiocytosis: is their clinical phenotype really similar? *Arthritis. Rheumatol., manuscript in preparation.*

197. Goh, K.S., Minoia, F., Ravelli, A., **Cron, R.Q.**, and Shakoory, B. 2020. An organ based diagnostic approach to macrophage activation syndrome in children demonstrates impaired reticuloendothelial system clearance. *Arthritis. Rheumatol., manuscript in preparation.*
198. Lowe, R.M., Genin, A., and **Cron, R.Q.** 2020. STAT5 signaling and CD154 expression in lupus CD4 T cells. *Lupus, manuscript in preparation.*
199. Mannion, M.L., Weiser, P., Beukelman, T., and **Cron, R.Q.** 2020. Decreased pediatric intensive care unit admissions for lupus patients following arrival of pediatric rheumatologists to a children's hospital [letter]. *J. Rheumatol., in preparation.*
200. **Cron, R.Q.**, Bort, S.J., Cleary, A.M., Genin, A., and Lewis, D.B. 2020. Lack of NFAT1 correlates with decreased cytokine and HIV-1 transcription in neonatal T cells. *Eur. J. Immunol., in preparation.*
201. Arunchalam, S., Lee, P., Stepick-Biek, P., Genin, A., Lewis, D.B., and **Cron, R.Q.** 2020. Generation of T cell-specific NFAT1 conditional transgenic mice. *Transgenics, in preparation.*
202. Genin, A., Ma, M., Babria, P., Dejewski, E., Sadeghi, L., Finkel, T. H., and **Cron, R.Q.** 2020. Cell cycle analysis and evaluation of plasmid uptake in a protocol for transient transfection of primary human CD4 T cells. *J. Immunol. Methods, in preparation.*
203. Zhang, M., Ma, M., Finkel, T.H., and **Cron, R.Q.** 2020. A method for optimizing plasmid ratios for co-transfection in primary CD4 T cells. *Faseb J., in preparation.*
204. Dai, L., Schumacher H.R., Einhorn, E., Chen, L.X., **Cron, R.Q.**, and Pessler, F. 2020. Wide-spread expression of nuclear factor of activated T cells transcription factors in inflammatory synovium. *Arthritis Res., in preparation.*
205. **Cron, R.Q.**, Zoltick, P.W., Genin, A., and Flake, A.W. 2020. Gene therapy for X-linked Hyper-IgM syndrome. *Nat. Med., in preparation.*
206. Zhang, M., Ferguson, I., Ledderman, M., Tebas, P., and **Cron, R.Q.** 2020. Effect of cyclosporin A on NFAT levels in CD4 T cells from HIV-1-infected individuals. *Virology, in preparation.*
207. Ferguson, P.J., **Cron, R.Q.**, and Hagood, J.S. 2020. Arthritis associated with adenosine triphosphate-binding cassette-3 (ABCA3) mutations. *J. Rheumatol., in preparation.*
208. Troxler, B., Wyvill, V., Hagood, J.S., and **Cron, R.Q.** 2020. A case of "fairy ring" pulmonary lesions in pediatric sarcoidosis. *Pediatr. Rheumatol. Online J., in preparation.*
209. Oakes, J., and **Cron, R.Q.** 2020. Granuloma annulare and erosive arthritis in a single finger joint. *Pediatr. Rheumatol. Online J., in preparation.*
210. Atkinson, T.P., Kelly, D., and **Cron, R.Q.** 2020. Macrophage activation syndrome following mycoplasma pneumonia in childhood. *Pediatr. Rheumatol. Online J., in preparation.*
211. Ferguson, P.J., and **Cron, R.Q.** 2020. Systemic juvenile arthritis following Kawasaki disease. *Pediatr. Rheumatol. Online J., in preparation.*
212. Shakoory, B., Alarcon, G.S, Brown, B.E., **Cron, R.Q.**, Chatham, W.W. 2020. Ferritin, triglyceride, and SLEDAI can provide clues to identification of macrophage activation syndrome in adults with SLE. *Arthritis Care Res., in preparation.*

213. Sasser, W., Tucci, M., Walley, S., Winkler, M., Hoover, W., and **Cron, R.Q.** 2020. Presentation of pediatric Wegener granulomatosis complicated by Legionella pneumonia. *Pediatr. Rheumatol. Online J., in preparation.*
214. Atkinson, G., Sharpe, T., Beukelman, T., Weiser, P., Atkinson, T.P., and **Cron, R.Q.** 2020. Joint distribution among the 7 juvenile idiopathic arthritis subtypes. *Pediatr. Rheumatol. Online J., in preparation.*
215. Atkinson, G., Sharpe, T., Beukelman, T., Weiser, P., Atkinson, T.P., and **Cron, R.Q.** 2020. Joint distribution among pediatric rheumatic disorders in comparison to juvenile idiopathic arthritis. *Pediatr. Rheumatol. Online J., in preparation.*
216. McLendon, J.P., Beukelman, T., Weiser, P., and **Cron, R.Q.** 2020. High dose infliximab in treating pediatric rheumatologic granulomatous disorders. *Pediatr. Rheumatol. Online J., in preparation.*
217. Weiss, P.F., and **Cron, R.Q.** 2020. Treatment of chronic non-renal Henoch-Schonlein purpura. *Pediatr. Rheumatol. Online J., in preparation.*
218. Gewanter, H.L., Wright, D.A., and **Cron, R.Q.** 2020. Linear scleroderma in children with juvenile idiopathic arthritis. *Pediatr. Rheumatol. Online J., in preparation.*
219. Dodd, C.H., Jester, T., Beukelman, T., Dimmitt, R.A., Saeed, S.A., and **Cron, R.Q.** 2020. Similarities between a cohort of children with juvenile spondyloarthropathy and those with inflammatory bowel disease. *Arthritis Care Res., in preparation.*
220. Shakoory, B., Chatham, W.W., and **Cron, R.Q.** 2020. Early Treatment of macrophage activation syndrome with anakinra, cyclosporine, and corticosteroid in adults. *Arthritis Care Res., in preparation.*
221. Shakoory, B., **Cron, R.Q.**, and Chatham, W.W. 2020. Increased mortality and prolonged hospitalization associated with macrophage activation syndrome in adults. *Arthritis Care Res., in preparation.*
222. **Cron, R.Q.**, Behrens, E.M., Sterba, G., and Miettunen, P.M. 2020. Hypertension as a common finding among children with macrophage activation syndrome. *J. Rheumatol., in preparation.*
223. Krishna, S., Lehman, T.J., **Cron, R.Q.**, Ahmed, T., and Cherian, J. 2020. High-dose anakinra in the treatment of a previously healthy pediatric patient presenting with refractory macrophage activation syndrome. *Pediatrics, in preparation.*
224. Mannion, M.L., Reed, A., and **Cron, R.Q.** 2020. Allergic reactions to rituximab amongst a pediatric rheumatology cohort. *J. Rheumatol., in preparation.*
225. Westhoven, K., Mannion, M.L., and **Cron, R.Q.** 2020. Infliximab therapy for pediatric relapsing polychondritis. *Pediatr. Rheumatol. Online J., in preparation.*
226. Waite, P.D., and **Cron, R.Q.** 2020. Unresponsive TMJ arthritis. *J. Oral Maxillofac. Surg., in preparation.*
227. Crayne, C.B, Sterba, Y., and **Cron, R.Q.** 2020. Rituximab therapy for Sjogren psychosis. *Pediatr. Rheumatol. Online J., in preparation.*
228. Zhang, M., Cron, R.R., and **Cron, R.Q.** 2020. SLC7A7, a novel risk factor for hemophagocytic lymphohistiocytosis. *J. Immunol., in preparation.*
229. Ombrello, M.J., Zhang, M., and **Cron, R.Q.** 2020. SNAP47, a novel gene associated with hemophagocytic lymphohistiocytosis. *J. Immunol., in preparation.*

OTHER PUBLICATIONS:

NON-PEER REVIEWED:

1. Rettig, P., and **Cron, R.** 2001. Juvenile rheumatoid arthritis and pain. *Relief!* (monthly newsletter of the Children's Hospital of Philadelphia) 2:1-4.
2. **Cron, R.Q.** 2002. Advice regarding immunizations in children with JRA. *Kids Get Arthritis, Too*. March/April issue, page 8.
3. **Cron, R.Q.** 2003. Regulation of CD154 expression in lupus. *Lupus News* 23:33.
4. **Cron, R.Q.** 2004. Monoclonal antibody therapy in lupus. *Lupus Now* 2:38.
5. Chatham, W.W., and **Cron, R.Q.** 2014. Ebola: hemorrhagic fever and macrophage activation syndrome. *The Rheumatologist* 8(12):1, 21-23. [Cover page with photo] <https://www.the-rheumatologist.org/article/ebola-hemorrhagic-fever-and-macrophage-activation-syndrome/> [2 citations]
6. **Cron, R.Q.**, and Chatham, W.W. 2020. COVID-19: don't forget the host. *The Rheumatologist*, 14(4):1, 17-18. [Cover page with photo]. <https://www.the-rheumatologist.org/article/dont-forget-the-host-covid-19-cytokine-storm/>
7. **Cron, R.Q.**, and Chatham, W.W. 2020. How doctors can significantly reduce the number of deaths from COVID-19. We already have medicines for treating cytokine storm syndrome, the immune response that's killing many who die of Covid-19. *Vox*. <https://www.vox.com/2020/3/12/21176783/coronavirus-covid-19-deaths-china-treatment-cytokine-storm-syndrome>
8. Chatham, W.W., Canna, S.W., and **Cron, R.Q.** 2020. Treating the COVID-19 cytokine storm. *Vox*.
9. **Cron, R.Q.** 2020. A unique COVID-19 cytokine storm. *Helio – Infectious Disease News*.
10. **Cron, R.Q.** 2020. Who would have predicted MIS-C? A comparison of pediatric COVID-19 and Multisystem Inflammatory Syndrome in Childhood (MIS-C). *Children's of Alabama Newsletter to Community Pediatricians*.

EDITORIALS/COMMENTARIES/GUIDANCE:

1. **Cron, R.Q.** 2001. Treatment for JRA in the new millennium. *J. Clin. Rheumatol.* 7:283-285. [1 citation]
2. **Cron, R.Q.** 2005. A signal achievement in the treatment of arthritis. *Arthritis Rheum.* 52:2229-2232. [17 citations]
3. **Cron, R.Q.**, and Beukelman, T. 2010. Guilt by association – what is the true risk of malignancy in children treated with etanercept for JIA? *Pediatr. Rheumatol. Online J.* 8:23. [27 citations]
4. **Cron, R.Q.**, and Schulze-Koops, H. 2011. 1.5 decades later: bearing fruits from the ACR/EULAR exchange program. *Pediatr. Rheumatol. Online J.* 9:14. [1 citation]
5. **Cron, R.Q.**, Behrens, E.M., Shakoory, B., Ramanan, A.V., and Chatham, W.W. 2015. Does viral hemorrhagic fever represent reactive hemophagocytic syndrome? *J. Rheumatol.* 42:1078-1080. [11 citations]
6. Behrens, E.M., and **Cron, R.Q.** 2015. Kill or be killed. *J. Immunol.* 194:5041-5043. [associated ImmunoCast: <http://www.jimmunol.org/site/podcast/POI2015Jun01.mp3>] [5 citations]

7. Crayne, C.B., and **Cron, R.Q.** 2017. Weathering a macrophage storm. *J. Rheumatol.* 44:970-972. [2 citations]
8. **Cron, R.Q.**, and Chatham, W.W. 2020. The rheumatologists's role in COVID-19. *J. Rheumatol.* 47:639-642. [Editor's Pick] [29 citations]
<http://www.jrheum.org/content/early/2020/03/24/jrheum.200334>
Associated video link: <http://www.jrheum.org/content/viewingrheum>
9. Henderson, L.A., Canna, S.C., Schulert, G.S., Volpi, S., Lee, P.Y., Kernan, K.F., Hazen, M.M., Halyabar, O., Hoyt, K.J., Han, J., Grom, A.A., Gattorno, M., Ravelli, A., de Benedetti, F., Behrens, E.M., **Cron, R.Q.**, and Nigrovic, P.A. 2020. On the alert for cytokine storm: immunopathology in COVID-19. *Arthritis Rheumatol.* 72:1059-1063. [76 citations]
10. **Cron, R.Q.** 2020. Coronavirus is the trigger, but the immune response is deadly. *Lancet Rheumatol.* 2:e370-e371. [1 citation]
11. **Cron, R.Q.** 2020. One-two punch of cytokine storm syndrome. *Blood* 136:645-646.
12. **Cron, R.Q.**, Schulert, G.S., and Tattersall, R.S. 2020. Defining the scourge of COVID-19 hyperinflammatory syndrome. *Lancet Rheumatol.*, in press.

REVIEWS:

1. Houlden, B.A., Matis, L.A., **Cron, R.Q.**, Widacki, S.M., Brown, G.D., Pampeno, C., Meruelo, D., and Bluestone, J.A. 1989. A TCR $\gamma\delta$ cell recognizing a novel TL-encoded gene product. *Cold Spring Harb. Symp. Quant. Biol.* 54:45-55. [114 citations]
2. Bluestone, J.A., **Cron, R.Q.**, Rellahan, B., and Matis, L.A. 1991. Ligand specificity and repertoire development of murine TCR $\gamma\delta$ cells. **IN** Function and Specificity of $\gamma\delta$ T cells, *Curr. Top. Microbiol. Immunol.* 173:133-139. [5 citations]
3. Bluestone, J.A., **Cron, R.Q.**, Barrett, T.A., Houlden, B., Sperling, A., Dent, A., Hedrick, S., Fry, A., and Matis, L.A. 1991. Repertoire development and ligand specificity of murine TCR $\gamma\delta$ cells. *Immunol. Rev.* 120:5-33. [104 citations]
4. **Cron, R.Q.**, and Swetter, S.M. 1994. Scleredema revisited. A poststreptococcal complication. *Clin. Pediatr. (Phila.)* 33:606-610. [33 citations]
5. **Cron, R.** 1995. Index of suspicion. Case 2. Diagnosis: Peritonsillitis. *Pediatr. Rev.* 16:117-119.
6. **Cron, R.Q.** 2001. HIV-1, NFAT, and cyclosporin: immunosuppression for the immunosuppressed? *DNA Cell Biol.* 20:761-767. [Submitted artwork depicting this research was published on the cover of this journal issue.] [21 citations]
7. **Cron, R.Q.** 2002. Current treatment for chronic arthritis in childhood. *Curr. Opin. Pediatr.* 14:684-687. [10 citations]
8. **Cron, R.Q.** 2003. CD154 transcriptional regulation in primary human CD4 T cells. *Immunol. Res.* 27:185-202. [43 citations]
9. **Cron, R.Q.** 2003. CD154 and lupus. *Pediatr. Rheumatol. Online J.* 1:172-181. [4 citations]
10. Pessler, F., and **Cron, R.Q.** 2004. Reciprocal regulation of the nuclear factor of activated T cells and HIV-1. *Genes Immun.* 5:158-167. [37 citations]

11. Dewitt, E.M., Sherry, D.D., and **Cron, R.Q.** 2005. Pediatric rheumatology for the adult rheumatologist I: therapy and dosing for pediatric rheumatic disorders. *J. Clin. Rheumatol.* 11:21-33. [4 citations]
12. Beukelman, T.G., and **Cron, R.Q.** 2005. JIA-associated growth failure and exogenous growth hormone therapy. *Pediatr. Rheumatol. Online J.* 3:99-108.
13. Pessler, F., Emery, H., Dai, L., Wu, Y.-M., Monash, B., **Cron, R.Q.***, and Pradhan, M. 2006. The spectrum of renal tubular acidosis in paediatric Sjogren syndrome. *Rheumatol.* 45:85-91. (* - co-senior author) [34 citations]
14. Pessler, F., Lai, D., **Cron, R.Q.**, and Schumacher, R. 2006. NFAT transcription factors - new players in the pathogenesis of inflammatory arthropathies? *Autoimmun. Rev.* 5:106-110. [13 citations]
15. Arabshahi, B., and **Cron, R.Q.** 2006. Temporomandibular joint arthritis in juvenile idiopathic arthritis: the forgotten joint. *Curr. Opin. Rheumatol.* 18:490-495. [85 citations]
16. Wright, T., and **Cron, R.Q.** 2007. Pediatric rheumatology for the adult rheumatologist II: uveitis in juvenile idiopathic arthritis. *J. Clin. Rheumatol.* 13:205-210. [17 citations]
17. Ringold, S., and **Cron, R.Q.** 2009. The temporomandibular joint in juvenile idiopathic arthritis: frequently used and frequently arthritic. *Pediatr. Rheumatol. Online J.* 7:11. [68 citations]
18. Davi, S., Lattanzi, B., Demirkaya, E., Rosina, S., Bracciolini, G., Novelli, A., Ruperto, N., Martini, A., **Cron, R.Q.**, and Ravelli, A. 2012. Toward the development of new diagnostic criteria for macrophage activation syndrome in systemic juvenile idiopathic arthritis. *Ann. Paediatr. Rheum.* 1:1-7. [20 citations]
19. Ravelli, A., Grom, A.A., Behrens, E.M., and **Cron, R.Q.** 2012. Macrophage activation syndrome as part of systemic juvenile idiopathic arthritis: diagnosis, genetics, pathophysiology and treatment. *Genes Immun.* 13:289-298. [199 citations] **F1000**
20. Sarver, D.M., Janyavula, S., and **Cron, R.Q.** 2013. Condylar degeneration and diseases – local and systemic etiologies. *Semin. Orthod.* 19:89-96. [9 citations]
21. Stoll, M.L., and **Cron, R.Q.** 2013. Treatment of juvenile idiopathic arthritis in the biologic age. *Rheum. Dis. Clin. North Am.* 39:751-766. [16 citations]
22. Stoll, M.L., and **Cron, R.Q.** 2014. Treatment of juvenile idiopathic arthritis: a revolution in care. *Pediatr. Rheumatol. Online J.* 12:13. [75 citations]
23. Zhang, M., Behrens, E.M., Atkinson, T.P., Shakoory, B., Grom, A.A., and **Cron, R.Q.** Genetic defects in cytolysis in macrophage activation syndrome. 2014. *Curr. Rheumatol. Rep.* 16:439-446. [64 citations] **F1000**
24. Stoll, M.L., **Cron, R.Q.**, and Saurenmann, R.K. 2015. Systemic and intra-articular anti-inflammatory therapy of temporomandibular joint arthritis in children with juvenile idiopathic arthritis. *Semin. Orthod.* 21:125-133. [3 citations]
25. **Cron, R.Q.**, Davi, S., Minoia, F., and Ravelli, A. 2015. Clinical features and correct diagnosis of macrophage activation syndrome. *Expert Rev. Clin. Immunol.* 11:1043-1053. [33 citations]
26. Ravelli, A., Davi, S., Minoia, F., Martini, A., and **Cron, R.Q.** 2015. Macrophage activation syndrome. *Hematol. Oncol. Clin. N. Am.* 29:927-941. [44 citations]

27. Stoll, M.L., and **Cron, R.Q.** 2015. Temporomandibular joint arthritis in juvenile idiopathic arthritis: the last frontier. *Int. J. Clin. Rheumatol.* 10:273-286. [**2 citations**]
28. Stoll, M.L., and **Cron, R.Q.** 2016. The microbiota in pediatric rheumatic disease: epiphenomenon or therapeutic target? *Curr. Opin. Rheumatol.* 28:537-543. [**8 citations**]
29. Stoll, M.L., Kau, C.H., Waite, P.D., and **Cron, R.Q.** 2018. Temporomandibular joint arthritis in juvenile idiopathic arthritis, now what? *Pediatr. Rheumatol. Online J.* 16:32. [Editors' Selection] [**14 citations**]
30. Crayne, C.B., Albeituni, S., Nichols, K.E., and **Cron R.Q.** 2019. The immunology of macrophage activation syndrome. *Front. Immunol.* 10:119. [**67 citations**]
31. Crayne, C., and **Cron, R.Q.** 2020. Pediatric macrophage activation syndrome, recognizing the tip of the iceberg. *Eur. J. Rheumatol.* 7 (Suppl 1):S13-S20. [**13 citations**]
32. Henderson, L.A., and **Cron, R.Q.** 2020. Macrophage activation syndrome in childhood inflammatory disorders: diagnosis and management. *Paediatr. Drugs* 22:29-44. [**8 citations**]
33. Schulert, G.S., and **Cron, R.Q.** 2020. The genetics of macrophage activation syndrome. *Genes Immun.* 21:169-181. [**4 citations**]
34. Bridges, J.M., Shenoi, S, Mellins, E.D., and **Cron, R.Q.** 2020. Recent advances in understanding/managing juvenile idiopathic arthritis. *F1000Res.*, invited review.
35. Shenoi, S., Bridges, J.M., **Cron, R.Q.**, and Mellins, E.D. 2020. Recent advances in understanding/managing systemic juvenile idiopathic arthritis. *F1000Res.*, invited review.
36. Canna, S.W., and **Cron, R.Q.** 2020. Highways to hell: mechanism based management of cytokine storm syndromes. *J. Allergy Clin. Immunol.*, in press.

PAPER REPORTS:

1. **Cron, R.** 2001. Degenerative joint disease following defective cytokine receptor signaling. <http://arthritis-research.com/paperreport/ar-2001-70552>. *Arthritis Res. Ther.* 3:1.
2. **Cron, R.** 2001. Getting under your skin: dendritic cells and autoimmunity. <http://arthritis-research.com/paperreport/ar-2001-71201>. *Arthritis Res. Ther.* 3:1.
3. **Cron, R.Q.** 2002. Interferon' with lupus. <http://arthritis-research.com/paperreport/ar-2002-74050>. *Arthritis Res. Ther.* 4:1.



BOOKS:

Textbook Editor:

1. Cytokine Storm Syndrome (1st edition). **R.Q. Cron**, and E.M. Behrens, Eds., Springer, Cham, Switzerland, pp. i-xxi, 1-617, 2019.

Book Chapters:

1. **Cron, R.Q.**, and Finkel, T.H. Approach to the child with joint pain. IN: Rheumatology Secrets (2nd edition). S. West, Ed., Hanley & Belfus, Inc., Philadelphia, PA, pp. 483-490, 2002.
2. **Cron, R.Q.**, and Finkel, T.H. Juvenile systemic connective tissue diseases. IN: Rheumatology Secrets (2nd edition). S. West, Ed., Hanley & Belfus, Inc., Philadelphia, PA, pp. 495-503, 2002.
3. **Cron, R.Q.** (contributing author). The 5-Minute Pediatric Consult (3rd edition). M.W. Schwartz, L.M. Bell, Jr., P.M. Bingham, E.K. Chung, D.F. Friedman, and A.E. Mulberg, Eds., Lippincott Williams & Wilkins, Philadelphia, PA, pp. 122-123, 310-311, 332-333, 642-643, 730-731, 736-737, 768-769, 804-805, 810-811, 2003.
4. Rettig, P.A., Merhar, S.L., and **Cron, R.Q.** Chronic arthritis in childhood: juvenile rheumatoid arthritis and the spondyloarthropathies. IN: Primary Care of the Child with a Chronic Condition (4th edition). P.L. Jackson and J.A. Vessey, Eds., Mosby-Yearbook, St. Louis, MO, pp. 582-600, 2004.
5. Scalzi, L.V., Lou, J., and **Cron, R.Q.** Synovial disorders. IN: Pediatric Orthopaedics and Sports Medicine: The Requisites in Pediatrics (1st edition). J.P. Dormans, Ed., Mosby, St. Louis, MO, pp. 337-372, 2004.
6. **Cron, R.Q.**, and McCarthy, J.J. Synovial disorders. IN: Core Knowledge in Orthopaedics: Pediatric Orthopaedics (1st edition). J.P. Dormans, Ed., Mosby, St. Louis, MO, pp. 403-417, 2005.
7. **Cron, R.Q.** (contributing author). The 5-Minute Pediatric Consult (4th edition). M.W. Schwartz, L.M. Bell, Jr., P.M. Bingham, E.K. Chung, D.F. Friedman, A.E. Mulberg and R.E. Tanel, Eds., Lippincott Williams & Wilkins, Philadelphia, PA, pp. 126-127, 318-319, 340-341, 656-657, 748-749, 754-755, 788-789, 826-827, 832-833, 2005.
8. **Cron, R.Q.** (contributing author). The 5-Minute Pediatric Consult (5th edition). M.W. Schwartz, L.M. Bell, Jr., P.M. Bingham, E.K. Chung, D.F. Friedman, A.E. Mulberg and R.E. Tanel, Eds., Lippincott Williams & Wilkins, Philadelphia, PA, pp. ??, 2008.
9. **Cron, R.Q.** (contributing author). The 5-Minute Pediatric Consult (6th edition). M.W. Schwartz, L.M. Bell, Jr., P.M. Bingham, E.K. Chung, D.F. Friedman, A.E. Mulberg and R.E. Tanel, Eds., Lippincott Williams & Wilkins, Philadelphia, PA, pp. 50-51, 262-263, 282-283, 760-761, 766-767, 2012.
10. **Cron, R.Q.**, Weiser, P., and Beukelman, T. Juvenile idiopathic arthritis. IN: Clinical Immunology: Principles and Practice (4th edition). Rich, R.R., Fleisher, T.A., Shearer, W.T., Schroeder, II, H.W., Frew, A.J., and Weyand, C.M., Eds., Elsevier, London, England, pp. 637-647, 2013.
11. Stoll, M.L., and **Cron, R.Q.** Juvenile idiopathic arthritis. IN: Pathobiology of Human Disease: A Dynamic Encyclopedia of Disease Mechanisms (1st edition). G. Siegal, T.S. Winokur, Eds., Elsevier, San Diego, CA, pp. 1950-1963, 2014.

12. Dewitt, E.M., and **Cron, R.Q.** Approach to the child with joint pain. IN: Rheumatology Secrets (3rd edition). S. West, Elsevier, Philadelphia, PA, pp. 509-515, 2015.
13. Dewitt, E.M., and **Cron, R.Q.** Juvenile systemic connective tissue diseases. IN: Rheumatology Secrets (3rd edition). S. West, Ed., Elsevier, Philadelphia, PA, pp. 522-529, 2015.
14. **Cron, R.Q.** (contributing author). The 5-Minute Pediatric Consult (7th edition). M.D. Cabana, P. Brakeman, M. Curran, L.A. Dimeglio, W.C. Golden, R. Goldsby, A. Hartman, T. Kind, J.L. Lightdale, C. Sabella and R. Tanel, Eds., Lippincott Williams & Wilkins, Philadelphia, PA, pp. 302-303, 808-809, 814-815, 866-867, 2015.
15. Davi, S., Minoia, F., **Cron, R.Q.**, and Ravelli, A. Macrophage activation syndrome. IN: Pediatric Rheumatology: A Clinical Viewpoint (1st edition). S. Sawhney, and A. Aggarwal, Eds., Springer Publishing, New York, NY, pp. 275-292, 2016.
16. **Cron, R.Q.**, and Hedenberg-Magnusson, B. Juvenile idiopathic arthritis. IN: Clinical Cases in Orofacial Pain (1st edition). Alstergren, P., and Ernberg, M., Eds., Wiley-Blackwell, Hoboken, NJ, pp. 73-77, 2017.
17. **Cron, R.Q.** Rheumatology. IN: Pediatrics Review Core Curriculum (8th edition). Ovalle, M.I., Ed., MedStudy, Colorado Springs, CO, pp. 20-1 to 20-26, 2017.
18. **Cron, R.Q.**, Weiser, P., and Beukelman, T. Juvenile idiopathic arthritis. IN: Clinical Immunology: Principles and Practice (5th edition). Rich, R.R., Fleisher, T.A., Shearer, W.T., Schroeder, II, H.W., Frew, A.J., and Weyand, C.M., Eds., Elsevier, London, England, pp. 723-733, 2019.
19. Eloiseily, E.M., and **Cron, R.Q.** The role of infectious agents in macrophage activation syndrome. IN: The Microbiome and Autoimmunity (1st edition). Atkinson, T.P., and Stoll, M.L., Eds., Springer, New York City, NY, pp. 151-182, 2018.
20. **Cron, R.Q.** Interleukin-1 family blockade. IN: Cytokine Storm Syndrome (1st edition). **R.Q. Cron**, and E.M. Behrens, Eds., Springer, New York City, NY, pp. 549-559, 2019.
21. **Cron, R.Q.**, and Behrens, E.M. Cytokine storm syndromes. IN: Cytokine Storm Syndrome (1st edition). **R.Q. Cron**, and E.M. Behrens, Eds., Springer, Cham, Switzerland, pp. xiii-xvii, 2019.
22. Eloiseily, E.M., and **Cron, R.Q.** Bacteria associated cytokine storm syndrome. IN: Cytokine Storm Syndrome (1st edition). **R.Q. Cron**, and E.M. Behrens, Eds., Springer, Cham, Switzerland, pp. 307-317, 2019.
23. **Cron, R.Q.** (contributing author). The 5-Minute Pediatric Consult (8th edition). M.D. Cabana, P. Brakeman, M. Curran, L.A. Dimeglio, W.C. Golden, R. Goldsby, A. Hartman, T. Kind, J.L. Lightdale, C. Sabella and R. Tanel, Eds., Lippincott Williams & Wilkins, Philadelphia, PA, pp. 302-303, 814-815, 872-873, 2019.
24. Eloiseily, E.M., and **Cron, R.Q.** Fever and abdominal pain. IN: Pediatric Autoimmunity and Transplantation – A Case-Based Collection with Multiple Choice Questions, Volume 3 (1st edition). F. Rahmani, and N. Rezaei, Eds., Springer, Cham, Switzerland, pp. 272-279, 2020.
25. Crayne, C.B., and **Cron, R.Q.** Juvenile idiopathic arthritis. IN: Current Diagnosis & Treatment in Rheumatology (4th edition). J. B. Imboden, D. B. Hellmann, and J.H. Stone, Eds., McGraw-Hill, New York, NY, pp. ???-???, 2018.

26. Crayne, C.B., and **Cron, R.Q.** Approach to the child with joint pain. IN: Rheumatology Secrets (4th edition). S.G. West, and J. Kolfenbach, Eds., Elsevier, Philadelphia, PA, pp. 540-546, 2020.
27. Crayne, C.B., and **Cron, R.Q.** Juvenile systemic connective tissue diseases. IN: Rheumatology Secrets (4th edition). S.G. West, and J. Kolfenbach, Eds., Elsevier, Philadelphia, PA, pp. 554-561, 2020.
28. Rosenberg, A.M., Jariwala, M.P., and **Cron, R.Q.** Polyarticular juvenile idiopathic arthritis. IN: Textbook of Pediatric Rheumatology (8th Edition). R.E. Petty, R.M. Laxer, C.B. Lindsley, L.R. Wedderburn, Eds., Elsevier, Philadelphia, PA, pp. ???-???, 2020.
29. **Cron, R.Q.**, Weiser, P., and Beukelman, T. Juvenile idiopathic arthritis. IN: Clinical Immunology: Principles and Practice (6th edition). Rich, R.R., Fleisher, T.A., Shearer, W.T., Schroeder, II, H.W., Frew, A.J., and Weyand, C.M., Eds., Elsevier, London, England, pp. ??, 2020.
30. Rich, R.R. and **Cron, R.Q.** The human immune response. IN: Clinical Immunology: Principles and Practice (6th edition). Rich, R.R., Fleisher, T.A., Shearer, W.T., Schroeder, II, H.W., Frew, A.J., and Weyand, C.M., Eds., Elsevier, London, England, pp. ??, 2020.

PUBLISHED ABSTRACTS:

Poster Exhibits:

1. Bluestone, J.A., **Cron, R.**, Fowlkes, B.J., Sharrow, S.O., Pardoll, D., Sachs, D.H., and Samelson, L.E. 1987. Ontogeny, phenotype and functional-characterization of murine thymocytes possessing T3-associated receptor structures (abstract). *J Cell. Biochem.* 1:211.
2. **Cron, R.**, Pardoll, D., Sachs, D.H., and Bluestone, J.A. 1987. Activation of peripheral T3+, Lyt2-, L3T4- T-cells using anti-T3 mAb (abstract). *Fed. Proc.* 46:1026.
3. **Cron, R.**, Leo, O., Pardoll, D., Sachs, D.H., and Bluestone, A. 1987. Phenotype, activation, and function of peripheral T3⁺, Lyt2⁻, L3T4⁻ T cells (abstract). *Immunobiology* 174 (suppl 3):84. [18th International Leucocyte Culture Conference, La Grande Motte, France].
4. **Cron, R.Q.**, Matis, L.A., Coligan, J.E., and Bluestone, J.A. 1988. Analysis of CD3+, CD4-, CD8- T-cell receptor (TCR)-gamma-delta-expressing splenocytes (abstract). *Clin. Res.* 36:A141.
5. Bluestone, J.A., **Cron, R.Q.**, Coligan, J.E., Houlden, B., Koning, F., and Matis, L.A. 1988. Analysis of antigen-specific CD3+, CD4-, CD8- T-cell receptor (TCR)-gamma-delta T-cells (abstract). *Faseb J.* 2:A446.
6. Tatsumi, Y., Deluca, D., **Cron, R.Q.**, and Bluestone, J.A. 1995. Differential effects of T cell receptor ligation of TCR-gamma thymocyte development in fetal thymic organ culture (abstract). *Thymus-Dordrecht* 23:131.
7. **Cron, R.Q.**, Seely, J.M., Jones, L.T., Wallace, C.A., Sherry, D., and Effmann, E.L. 1997. High resolution CT analysis of lung disease in children with systemic sclerosis (abstract). *Arthritis Rheum.* 40 (suppl 9):S141.
8. **Cron, R.Q.**, Wallace, C.A., Sherry, D.D., and Weiss, A.H. 1997. Systemic methotrexate for resistant chronic uveitis in children with JRA (abstract). *Arthritis Rheum.* 40 (suppl 9):S242.
9. **Cron, R.Q.**, Bartz, S., Wang, Y., Brunvand, M., and Lewis, D. 1997. The role of NFAT in enhanced IL-4 gene expression (abstract). *Arthritis Rheum.* 40 (suppl 9):S38.
10. **Cron, R.Q.**, Bartz, S., Klebanoff, S.J., and Lewis, D.B. 1998. NFAT1 enhances HIV-1 expression in normal human CD4 T cells (abstract). *FASEB J.* 12:A296.
11. **Cron, R.Q.**, Borts, S.J., Schubert, L.A., and Lewis, D.B. 1999. Lack of NFAT1 correlates with decreased cytokine production by neonatal T cells (abstract). *FASEB J.* 13:A617.
12. **Cron, R.Q.**, and Lewis, D.B. 1999. Octamer proteins inhibit IL-4 gene transcription in normal human CD4 T cells (abstract). *Arthritis Rheum.* 42 (suppl 9):S199.
13. **Cron, R.Q.**, Lee, P., and Lewis, D.B. 2000. Generation of conditional NFAT1 transgenic mice (abstract). *FASEB J.* 14:A1082.
14. Jullien, P., **Cron, R.Q.**, Dabbagh, K., Tran, P., Brown, R., Stepick-Biek, P., and Lewis, D.B. 2000. Mechanisms for decreased CD40-ligand (CD154) expression by human neonatal CD4 T cells (abstract). *FASEB J.* 14:A929.
15. **Cron, R.Q.**, Sharma, S., and Sherry, D.D. 2000. Current trends in treatment by American and Canadian pediatric rheumatologists (abstract). *J. Rheumatol.* 23 (suppl 58):101.

16. Zhou, B., Bingruo, W., Genin, A., Liu, S., **Cron, R.Q.**, and Baldwin, H.S. 2000. Characterization of the murine NFATc1 minimal promoter. Pennsylvania Muscle Institute's 8th. Symposium, University of Pennsylvania, Philadelphia, PA.
17. **Cron, R.Q.**, Genin, A., and Clausell, A. 2001. Regulation of HIV-1 transcription by c-maf (abstract). *FASEB J.* 15:A696. [1 citation]
18. Zhou, B., Wu, G., Genin, A., Liu, S., **Cron, R.Q.**, and Baldwin, H.S. 2001. The NFAT2 promoter is regulated by NFAT1 (abstract). *FASEB J.* 15:A698.
19. Scalzi, L.V., **Cron, R.Q.**, and VonFeldt, J.M. 2002. Correlation of increased soluble CD40 ligand levels and coronary artery calcification in SLE patients (abstract). *Arthritis Rheum.* 45 (suppl 9):S55. [4 citations]
20. DeWitt, E.M., **Cron, R.Q.**, Finkel, T.H., and Meyers, K. 2003. Treatment quandary: proliferative glomerulonephritis – lupus versus hepatitis B infection (abstract). Pediatric Rheumatology International Meeting. Snowmass, CO, *Pediatr. Rheumatol. Online J.*, in press.
21. DeWitt, E.M., Kaye, R., Towbin, R., and **Cron, R.Q.** 2003. Temporomandibular joint corticosteroid injections in juvenile rheumatoid arthritis (abstract). Pediatric Rheumatology International Meeting. Snowmass, CO, *Pediatr. Rheumatol. Online J.*, in press.
22. Burnham, J.M., and **Cron, R.Q.** 2003. Sweet syndrome in a child with lupus and subsequent secondary sjogren syndrome (abstract). Pediatric Rheumatology International Meeting. Snowmass, CO, *Pediatr. Rheumatol. Online J.*, in press.
23. Burnham, J.M., **Cron, R.Q.**, Finkel, T.H., and Leonard, M.B. 2003. Osteopenia in juvenile rheumatoid arthritis: altered regulation of osteoclastogenesis (abstract). Pediatric Rheumatology International Meeting. Snowmass, CO, *Pediatr. Rheumatol. Online J.*, in press.
24. Burnham, J.M., Shults, J., Sargent, S., **Cron, R.**, Finkel, T., Sherry, D., Zemel, B.S., and Leonard, M. 2003. JRA is associated with decreased trabecular density, cortical dimensions and bone strength (abstract). *Arthritis Rheum.* 48:3626-7. [1 citation]
25. Zhang, M., Genin, A., and **Cron, R.Q.** 2004. Over-expression of octamer transcription factors 1 and 2 have no effect on HIV-1 transcription in primary human CD4 T cells (abstract). Stokes Scientific Retreat. 14:122.
26. Brunner, M., Genin, A., and **Cron, R.Q.** 2004. Identification of a novel GATA-regulated 5' enhancer of CD154 transcription (abstract). Stokes Scientific Retreat. 14:13.
27. Burnham, J.M., Shults, J., Sargent, S., **Cron, R.**, Finkel, T., Sherry, D., Zemel, B.S., and Leonard, M. 2004. JRA is associated with decreased trabecular density, cortical dimensions and bone strength (abstract). Stokes Scientific Retreat. 14:17.
28. Selliah, N., DeSimone, D., Kim, H., Brunner, M., **Cron, R.Q.**, and Finkel, T.H. 2004. STAT5 activates the HIV-1 LTR (abstract). Stokes Scientific Retreat. 14:92.
29. **Cron, R.Q.**, Bandyopadhyay, R., Genin, A., Brunner, M., Kersh, G.J., and Crow, M.K. 2004. Egr-1 regulates CD154 transcription (abstract). *Pediatr. Res.* 55:19A.
30. Cahill, A.M., Baskin, K.M., Kaye, R.D., Arabshahi, B., Dewitt, E.M., **Cron, R.**, and Towbin, R.B. 2004. CT guided percutaneous temporomandibular steroid joint injection in children for inflammatory arthropathy – preliminary experience (abstract). Society for Pediatric Radiology Annual Meeting.

31. Zhang, M., Genin, A., and **Cron, R.Q.** 2004. Over-expression of octamer transcription factors 1 and 2 have no effect on HIV-1 transcription in primary human CD4 T cells (abstract). *FASEB J.* 18:A458.
32. Finkel, T.H., DeSimone, D. Kim, H., M. Brunner, M., **Cron, R.Q.**, and Selliah, N. 2004. STAT5 regulates activity of the HIV-1 LTR, under negative feedback control by Nef (abstract). *FASEB J.* 18:A1140.
33. Finkel, T.H., Selliah, N., DeSimone, D., Kim, H., Brunner, M., and **Cron, R.Q.** 2004. STAT5 activates the HIV-1 LTR (abstract). *FASEB J.* 18:A1143.
34. Kaye, R.D., Baskin, K.M., Cahill, A.M., Arabshahi, B., Dewitt, E.M., **Cron, R.** 2004. CT guided percutaneous steroid injection for treatment of inflammatory arthropathy of the TMJ in children (abstract). Society of Interventional Radiology Annual Scientific Meeting. S232.
35. Arabshahi, B., Dewitt, E.M., Cahill, A.M., Kaye, R.D., and **Cron, R.Q.** 2004. Evaluation of corticosteroid injection for TMJ arthritis in children with JRA (abstract). Scientific Meeting of The TMJ Association, Bethesda, MD, *accepted*. [**Travel Award recipient**]
36. Cahill, A.M., Baskin, K.M., Kaye, R.D., Towin, R.B., Arabshahi, B., Dewitt, E.M., and **Cron, R.** 2004. CT guided percutaneous steroid injection for treatment of inflammatory arthropathy of the temporomandibular joint in children (abstract). Society for Pediatric Radiology Annual Meeting. S46.
37. Dai, L., Schumacher, H.R., Einhorn, E., Chen, L.X., **Cron, R.Q.**, and Pessler, F. 2004. Wide-spread expression of nuclear factor of activated T cells (NFAT) family members in inflammatory synovium (abstract). *Arthritis Rheum.* 50 (suppl 9):S528-529. [**1 citation**]
38. Arabshahi, B., Dewitt, E.M., Cahill, A.M., Kaye, R.D., and **Cron, R.Q.** 2004. Evaluation of corticosteroid injection for TMJ arthritis in children with JIA (abstract). *Arthritis Rheum.* 50:4084. [ACR Annual Scientific Meeting].
39. Dai, L., Schumacher, H.R., Chen, L.X., **Cron, R.Q.**, and Pessler, F. 2004. Identification of nuclear factor of activated T cells (NFAT) family members in synovial fluid cells (abstract). *Inflamm. Res.* 53 (suppl 3):S224.
40. Scalzi, L.V., Flagg, S.D., Genin, A., Cucchiarra, A.J., Van Dyke, A.L., Chander, A., Robbins, E., **Cron, R.Q.**, and Von Feldt, J.M. 2004. Coronary calcification (CAC) measured by electron beam computed tomography (EBCT) is significantly higher in SLE patients compared to age, gender, and race matched Controls. Homocysteine levels, and disease duration independently correlate with coronary calcification in SLE patients. Lupus Research Institute annual meeting (abstract), *submitted*.
41. Arabshahi, B., Dewitt, E.M., Cahill, A.M., Kaye, R.D., Pessler, F., and **Cron, R.Q.** 2005. Evaluation of corticosteroid injection for temporomandibular arthritis in children with juvenile idiopathic arthritis (abstract). *Ann. Rheum. Dis.* 64 (suppl 3):503. [**2 citations**]
42. Pessler, F., Dai, L., Wu, Y., Monash, B., Pradhan, M., and **Cron, R.Q.** 2005. The spectrum of renal tubular acidosis in pediatric Sjogren syndrome (abstract). *Ann. Rheum. Dis.* 64 (suppl 3):506.
43. Dai, L., Schumacher, R., Shi, J., Einhorn, E., **Cron, R.Q.**, and Pessler, F. 2005. Immunohistochemical localization of NFAT transcription factors in the synovial vasculature (abstract). *Ann. Rheum. Dis.* 64 (suppl 3):562.

44. Zhang, M., Clausell, A., Chen, E., Johnson, L., and **Cron, R.Q.** 2005. c-maf cooperates with NFAT2 to augment HIV-1 transcription in T-helper-2 CD4 T cells (abstract). Stokes Scientific Retreat. 15:116. [**honorable mention award winner**]
45. Pessler, F., Dai, L., Wu, Y., Monash, B., Pradhan, M., and **Cron, R.Q.** 2005. The spectrum of renal tubular acidosis in pediatric Sjogren syndrome (abstract). Stokes Scientific Retreat. 15:79.
46. Dai, L., Schumacher, R., Shi, J., Einhorn, E., **Cron, R.Q.**, and Pessler, F. 2005. Immunohistochemical localization of NFAT transcription factors in the synovial vasculature (abstract). Stokes Scientific Retreat. 15:78.
47. Arabshahi, B., Dewitt, E.M., Cahill, A.M., Kaye, R.D., Pessler, F., and **Cron, R.Q.** 2005. Evaluation of corticosteroid injection for temporomandibular arthritis in children with juvenile idiopathic arthritis (abstract). Stokes Scientific Retreat. 15:6.
48. Fitch, P.G., Rettig, P., Burnham, J.M., Finkel, T.H., Yan, A.C., Akin, E., and **Cron, R.Q.** 2005. Treatment of pediatric localized scleroderma with methotrexate (abstract). *Pediatr. Res.* 57:??.
49. Arabshahi, B., Dewitt, E.M., Cahill, A.M., Kaye, R.D., and **Cron, R.Q.** 2005. Evaluation of corticosteroid injection for temporomandibular arthritis in children with juvenile idiopathic arthritis (abstract). SPR meeting 2005, *accepted*.
50. **Cron, R.Q.**, Genin, A., and Brunner, M. 2005. Increased CD4 T cell transcription in lupus CD4 T cells correlates with increase NFAT activity (abstract). *Arthritis Rheum.* 52 (suppl 9):S203.
51. Beukelman, T., Arabshahi, B., Cahill, A.M., Kaye, R.D., and **Cron, R.Q.** 2005. Benefit of intraarticular corticosteroid injection under fluoroscopic guidance for subtalar arthritis in juvenile idiopathic arthritis (abstract). *Arthritis Rheum.* 52 (suppl 9):S85.
52. Fitch, P.G., Rettig, P., Burnham, J.M., Finkel, T.H., Yan, A.C., Akin, E., and **Cron, R.Q.** 2005. Treatment of pediatric localized scleroderma with methotrexate (abstract). *Arthritis Rheum.* 52 (suppl 12):4102-4103.
53. Zhang, M., Clausell, A., Chen, E., Johnson, L., and **Cron, R.** 2005. c-maf cooperates with NFAT2 to augment HIV-1 transcription in T-helper-2 CD4 T cells (abstract). UPenn CFAR 7th Annual Retreat, page 33.
54. Selliah, N., DeSimone, D., Brunner, M., Kim, H., Zhang, M., Ittenbach, R., Rui, H., **Cron, R.Q.**, and Finkel, T.H. 2005. The gamma-c-cytokine regulated transcription factor, STAT5, activates HIV-1 transcription and viral replication in primary CD4 T cells (abstract). UPenn CFAR 7th Annual Retreat, page 25.
55. Zhang, M., Clausell, A., Chen, E., Johnson, L., and **Cron, R.Q.** 2005. c-maf cooperates with NFAT2 to augment HIV-1 transcription in IL-4 producing CD4 T cells (abstract). *Retrovirology*, 2(suppl 1):60.
56. Zhang, M., Clausell, A., Chen, E., Johnson, L., and **Cron, R.Q.** 2005. c-maf cooperates with NFAT2 to augment HIV-1 transcription in T-helper-2 CD4 T cells (abstract). University of Pennsylvania Immunology Graduate Group annual retreat, *submitted*.
57. Behrens, E.M., and **Cron, R.Q.** 2005. Use of an interleukin-1 receptor antagonist for severe macrophage activation syndrome (abstract). American College of Rheumatology Annual Scientific Meeting, Program Book Supplement, page 59.

58. Behrens, E.M., Krieger, P.A., Cherian, S., and **Cron, R.Q.** 2005. The use of anakinra in the treatment of cytophagic histiocytic panniculitis (abstract). *Arthritis Rheum.* 52:4098-4099. [American College of Rheumatology Annual Scientific Meeting]
59. Arabshahi, B., Bilaniuk, L.T., Johnson, A.M., and **Cron, R.Q.** 2005. Temporomandibular joint (TMJ) arthritis: diagnosis, incidence and predictors of active disease in juvenile idiopathic arthritis (abstract). *Arthritis Rheum.* 52:4080. [American College of Rheumatology Annual Scientific Meeting] [**Awarded Earl J. Brewer Research Award**]
60. Fitch, P.G., Rettig, P., Burnham, J.M., Finkel, T.H., Yan, A.C., Akin, E., and **Cron, R.Q.** 2005. Treatment of pediatric localized scleroderma with methotrexate (abstract). *Arthritis Rheum.* 52:4102-4103. [American College of Rheumatology Annual Scientific Meeting]
61. Arabshahi, B., Dewitt, E.M., Cahill, A.M., Kaye, R.D., Baskin, K., and **Cron, R.Q.** 2005. Utility of intra-articular corticosteroids for treatment of temporomandibular joint (TMJ) arthritis in juvenile idiopathic arthritis (JIA) (abstract). *Arthritis Rheum.* 52:4089. [American College of Rheumatology Annual Scientific Meeting]
62. Pessler, F., Emery, H., Dai, L., Wu, Y., Monash, B., Pradhan, M., and **Cron, R.Q.** 2005. The spectrum of renal tubular acidosis in pediatric Sjogren syndrome (abstract). *Arthritis Rheum.* 52:4073. [American College of Rheumatology Annual Scientific Meeting]
63. Pessler, F., Dai, L., Einhorn, E., **Cron, R.Q.**, and Schumacher, H.R. 2005. Expression of nuclear factor of activated T cells (NFAT) transcription factors in the synovial subintima distinguishes RA from OA (abstract). *Arthritis Rheum.* 52:4073. [American College of Rheumatology Annual Scientific Meeting] [**Awarded ACR/REF Pediatric Rheumatology Research Award**]
64. **Cron, R.Q.**, and Torgerson, T.R. 2006. Inhibition of NFAT2 expression by FOXP3 (abstract). *J. Immunol.* 176 (suppl):S198-S199.
65. Zhang, M., Ma, Z., Selliah, N., Genin, A., Finkel, T.H., and **Cron, R.Q.** 2006. Influence of nucleofection on primary human CD4 T cells and optimization for transient transfection of plasmid DNA (abstract). *AAI 2006 Late Breaking Abstracts supplement*:page 55.
66. Zhang, M., Ma, Z., Selliah, N., Genin, A., Weiss, G., Finkel, T.H., and **Cron, R.Q.** 2006. Influence of nucleofection on primary human CD4 T cells and optimization of a nucleofection protocol for transient transfection of plasmid DNA (abstract). CHOP poster day, page 110.
67. Behrens, E., Beukelman, T., Paessler, M., and **Cron, R.Q.** 2006. Occult macrophage activation syndrome in systemic juvenile idiopathic arthritis (abstract). CHOP poster day, page 11.
68. Zhang, M., Ma, Z., Selliah, N., Genin, A., Weiss, G., Finkel, T.H., and **Cron, R.Q.** 2006. Influence of nucleofection on primary human CD4 T cells and optimization of a nucleofection protocol for transient transfection of plasmid DNA (abstract). Stokes Scientific Retreat. 16:67.
69. **Cron, R.Q.**, Genin, A. and Torgerson, T.R. 2006. Inhibition of NFAT2 expression by the regulatory T cell transcription factor, FOXP3 (abstract). Stokes Scientific Retreat. 16:15.
70. Arabshahi, B., Bilaniuk, L.T., Johnson, A.M., Bellah, R.D., and **Cron, R.Q.** 2006. Temporomandibular joint arthritis: incidence, diagnosis and predictors of active disease in juvenile idiopathic arthritis (abstract). Stokes Scientific Retreat. 16:46.

71. Torgerson, T., Genin, A., Anover, S., Ochletree, E., Frank, B., Dozmorov, I., Centola, M., Ochs, H., and **Cron, R.Q.** 2006. Foxp3 inhibits inducible NFAT2 gene expression (abstract). *Clin. Immunol.* 119:S7-S8.
72. Behrens, E., Beukelman, T., Paessler, M., and **Cron, R.Q.** 2006. Occult macrophage activation syndrome in systemic juvenile idiopathic arthritis (abstract). *Arthritis Rheum.* 54 (suppl 9):S695.
73. Becker, M.L., **Cron, R.Q.**, Lautenbach, E., Sherry, D.D., and Rose, C.D. 2006. Hepatic enzyme abnormalities in children with JIA receiving high dose methotrexate (abstract). *Arthritis Rheum.* 54 (suppl 9):S166-167.
74. **Cron, R.Q.**, and Orgun, N. 2006. Role of STAT5 in IL-15-augmented CD154 transcription in SLE (abstract). *Arthritis Rheum.* 54 (suppl 9):S602.
75. Becker, M.L., **Cron, R.Q.**, Lautenbach, E., Sherry, D.D., and Rose, C.D. 2006. Clinical outcomes in children with JIA receiving low versus high dose methotrexate (abstract). *Arthritis Rheum.* 54 (suppl 12):S???
76. Becker, M.L., **Cron, R.Q.**, Lautenbach, E., Sherry, D.D., and Rose, C.D. 2006. High dose vs. standard dose methotrexate in JIA: effects on liver toxicity and clinical response (abstract). *Arthritis Rheum.* 54:4054-4055. [American College of Rheumatology Annual Scientific Meeting]
77. Behrens, E.M., Beukelman, T., Gallo, L., Spangler, J., Rosenkranz, M., Arkachaisri, T., Ayala, R., Groh, B., Finkel, T.H., and **Cron, R.Q.** 2006. Pennsylvania systemic onset juvenile arthritis registry (PASOJAR): presenting characteristics and demographic data of a large cohort (abstract). *Arthritis Rheum.* 54:4057. [American College of Rheumatology Annual Scientific Meeting]
78. Zhang, M., and **Cron, R.Q.** 2007. c-maf, NFAT2 and NFκB p65 specifically cooperate to augment HIV-1 transcription in IL-4 producing CD4 T cells (abstract). *J. Immunol.* 178 (suppl 1):S7.
79. Zhang, M., Clausell, A., Chen, E., Johnson, L., and **Cron, R.Q.** 2007. c-maf, NFAT2 and NFκB p65 specifically cooperate to augment HIV-1 transcription in IL-4 producing CD4 T cells (abstract). CHOP poster day, page 76.
80. Behrens, E.M., Beukelman, T., Gallo, L., Spangler, J., Rosenkranz, M., Arkachaisri, T., Ayala, R., Groh, B., Finkel, T.H., and **Cron, R.Q.** 2007. Presenting characteristics of systemic onset juvenile rheumatoid arthritis (abstract). CHOP poster day, page 7.
81. Becker, M.L., **Cron, R.Q.**, Lautenbach, E., Sherry, D.D., and Rose, C.D. 2007. Association of methotrexate dose with hepatic enzyme abnormality in juvenile idiopathic arthritis (abstract). *Pediatr. Res.* 61:??A, *accepted*.
82. **Cron, R.Q.**, Wells, A.D., and Torgerson, T.R. 2007. FoxP3 represses effector CD4 T cell function via inhibition of activation induced NFAT2 transcription (abstract). *Arthritis Rheum.* 56 (suppl 9):S756.
83. Weiss, P.F., Arabshahi, B., Johnson, A., Bilaniuk, L.T., Feudtner, C., and **Cron, R.Q.** 2007. High prevalence of temporomandibular joint arthritis at disease onset in children with juvenile idiopathic arthritis as detected by MRI but not by ultrasound (abstract). *Arthritis Rheum.* 56 (suppl 9):S144.
84. Weiss, P.F., Arabshahi, B., Johnson, A., Bilaniuk, L.T., Feudtner, C., and **Cron, R.Q.** 2008. High prevalence of temporomandibular joint arthritis at disease onset in children

- with juvenile idiopathic arthritis as detected by MRI but not by ultrasound (abstract). *Pediatr. Rheumatol.*, *accepted*.
85. **Cron, R.Q.**, Beukelman, T., Reed, A.B., and Behrens, E.M. 2008. IL-1 antagonism for treatment of macrophage activation syndrome (abstract). *Arthritis Rheum.* 58 (suppl 9):S247-S248.
 86. Donnithorne, K., **Cron, R.Q.**, and Beukelman, T. 2008. Treatment with tumor necrosis factor alpha inhibitors in early versus established juvenile idiopathic arthritis (abstract). Medical Student Research Day. University of Alabama at Birmingham. **Award winning abstract.**
 87. Wright, S.S., Nogueira, J., Thame, K., Atkinson, P., **Cron, R.Q.**, and Saeed, S. 2009. Successful treatment of intractable gastrointestinal bleeding in Henoch Schonlein purpura with rituximab: First reported case (abstract). *J. Investig. Med.* 57:303-306. [Southern Society for Pediatric Research annual meeting. New Orleans, LA]
 88. **Cron, R.Q.**, Genin, A., and Orgun, N.N. 2009. IL-15 prolongs CD154 expression via STAT5 engagement of the proximal CD154 promoter (abstract). American Association of Immunology annual scientific meeting. Seattle, WA. *J. Immunol.* 182 (suppl 1):99.48.
 89. Good, J.M., **Cron, R.Q.**, and Waite, P.D. 2009. TMJ involvement in juvenile idiopathic arthritis: prevalence, clinical and radiographic signs, and utility of corticosteroid injections (abstract). American Association of Oral and Maxillofacial Surgery annual scientific meeting. Toronto, Ontario. *J. Oral Maxillofac. Surg.* 67:93-94.
 90. Chen, C.M., Genin, A.D., Zhang, M.J., Zhou, B.M., Anover-sombke, S., Frank, B.M., Dozmorov, I., Ocheltree, E., Kulmala, P., Centola, M., Ochs, H.D., Torgerson, T.R., **Cron, R.Q.**, and Wells, A.D. 2009. Foxp3 inhibits activation-induced Nfat2 expression: an additional mechanism that limits inflammatory cytokine gene expression in regulatory T cells (abstract). *Am. J. Transplant.* 9:539.
 91. Shakoory, B., Sanders, R.D., Reddy, V., Alarcon, G.S., **Cron, R.Q.**, and Chatham, W.W. 2009. Multi-organ dysfunction, high SLEDAI scores, and markedly elevated ferritin levels correlate with macrophage activation syndrome in adult patients with SLE (abstract). *Arthritis Rheum.* 60 (suppl 10):S104-S105.
 92. Shakoory, B., Sanders, R.D., Reddy, V., Alarcon, G.S., **Cron, R.Q.**, and Chatham, W.W. 2009. The size, but not the number, of CD-163+ histiocytes in the bone marrow predicts macrophage activation syndrome in adults with systemic lupus erythematosus (abstract). *Arthritis Rheum.* 60 (suppl 10):S106.
 93. **Cron, R.Q.**, Genin, A., Brunner, M., Scalzi, L.V., Mishra, N., Beukelman, T., and Mehta, J. 2010. Prolonged CD154 expression in pediatric lupus CD4 T cells correlates with increased CD154 transcription, increased NFAT activity, and glomerulonephritis (abstract). *J. Immunol.* 184 (suppl 1):135.4.
 94. Shakoory, B., Sanders, R.D., Reddy, V., Alarcon, G.S., **Cron, R.Q.**, and Chatham, W.W. 2010. Multi-organ dysfunction, high SLEDAI scores, and markedly elevated ferritin levels correlate with macrophage activation syndrome in adult patients with SLE (abstract). UAB Trainee Research Symposium. Birmingham, AL, *accepted*.
 95. **Cron, R.Q.**, Beukelman, T., Bemrich-Stolz, C., and Watts, R.G. 2010. IL-1 antagonism for treatment of macrophage activation syndrome (abstract). *Pediatr. Blood Cancer*, *accepted*.

96. Foeldvari, I., Tzaribachev, N., Wierk, A., and **Cron, R.** 2010. Results of a multinational survey regarding diagnosis and treatment of the temporomandibular joint involvement in juvenile idiopathic arthritis (abstract). *Ann. Rheum. Dis., submitted*. [PREs Meeting, Valencia, Spain]
97. Davi, S., Consolaro, A., Guseinova, D., Martini, A., **Cron, R.**, and Ravelli, A. 2010. International consensus survey of the diagnostic criteria for macrophage activation syndrome in systemic juvenile idiopathic arthritis (abstract). *Ann. Rheum. Dis., submitted*. [PRES 2010, Valencia, Spain]
98. Davi, S., Consolaro, A., Guseinova, D., Martini, A., **Cron, R.Q.**, and Ravelli, A. 2010. International consensus survey of the diagnostic criteria for macrophage activation syndrome in systemic juvenile idiopathic arthritis (abstract). *Arthritis Rheum.* 62 (suppl 10):S208. [ACR 2010, Atlanta, GA]
99. Nigrovic, P.A., Mannion, M., Zeft, A., Rabinovich, E., van Rossum, M.A.J., Cortis, E., Pardeo, M., Miettunen, P.M., Janow, G., Birmingham, J., Eggebeen, A., Janssen, E., Shulman, A.I., Son, M.B., Hong, S., Jones, K., Ilowite, N.T., **Cron, R.Q.**, and Higgins, G.C. 2010. Anakinra as first-line disease modifying therapy in systemic juvenile idiopathic arthritis: report of 46 patients from an international multicenter series (abstract). *Arthritis Rheum.* 62 (suppl 10):S89-S90. [ACR 2010, Atlanta, GA]
100. Record, J., Beukelman, T., and **Cron, R.Q.** 2010. High prevalence of inflammatory myositis in patients with pediatric systemic lupus erythematosus in a US southeastern state (abstract). *Arthritis Rheum.* 62 (suppl 10):S700. [ACR 2010, Atlanta, GA]
101. Sharpe, T., Good, J., Beukelman, T., Waite, P.D., and **Cron, R.Q.** 2010. Benefit of intra-articular corticosteroid injections by oral and maxillofacial surgery treating temporomandibular joint arthritis in children with juvenile idiopathic arthritis (abstract). *Arthritis Rheum.* 62 (suppl 10):S213. [ACR 2010, Atlanta, GA]
102. Shakoory, B., Chatham, W.W., Alarcon, G.S., and **Cron, R.Q.** 2010. Renal dysfunction is associated with increased mortality in adults with macrophage activation syndrome (abstract). *Arthritis Rheum.* 62 (suppl 10):S695. [ACR 2010, Atlanta, GA]
103. Sasser, W.C., Hoover, W., **Cron, R.**, Walley, S., and Winkler, M. 2010. ANCA-associated vasculitis and Legionella pneumonia in a teenager, clues into the pathophysiology of an uncommon autoimmune disease or unrelated processes? (abstract). *J. Investig. Med.* 59:446. [Southern Society for Pediatric Research annual meeting. New Orleans, LA]
104. Sasser, W., Tucci, M., Walley, S., Winkler, M., Hoover, W., and **Cron, R.Q.** 2010. Presentation of pediatric Wegener granulomatosis complicated by Legionella pneumonia (abstract). American Thoracic Society International Conference. Denver, CO, *submitted*.
105. Record, J., Beukelman, T., and **Cron, R.Q.** 2011. High prevalence of inflammatory myositis in patients with pediatric systemic lupus erythematosus in a US southeastern state (abstract). *Pediatr. Res.* 69:A??. *accepted*. [APS/SPR annual meeting in Denver, CO]
106. **Cron, R.Q.**, Beukelman, T., Bemrich-Stolz, and Watts, R.G. 2011. IL-1 antagonism for treatment of macrophage activation syndrome (abstract). *Pediatr. Blood Cancer* 56:701.
107. Lattanzi, B., Davis, S., Rosina, S., Demirkaya, E., Ruperto, N., Martini, A., **Cron, R.Q.**, and Ravelli, A. 2011. Sensitivity and specificity of current guidelines in children with

- macrophage activation syndrome complicating systemic juvenile idiopathic arthritis (abstract). *Ann. Rheum. Dis.*, submitted. [EULAR, London, England]
108. Lattanzi, B., Davis, S., Rosina, S., Demirkaya, E., Ruperto, N., Martini, A., **Cron, R.Q.**, and Ravelli, A. 2011. Sensitivity and specificity of current guidelines in children with macrophage activation syndrome complicating systemic juvenile idiopathic arthritis (abstract). *Pediatr. Rheumatol. Online J.*, submitted. [Pediatric Rheumatology Symposium, Miami, FL]
109. **Cron, R.Q.**, Fain, E., Atkinson, G., Weiser, P., and Beukelman, T. 2011. Temporomandibular joint arthritis in patients with non-JIA childhood arthritis (abstract). *Pediatr. Rheumatol. Online J.* 10 (suppl 1):A76. [Pediatric Rheumatology Symposium (PRSYM), Miami, FL]
110. **Cron, R.Q.**, and Genin, A. 2011. Generation of human CD154 BAC transgenic mice to explore therapy for X-linked Hyper-IgM syndrome (XHIM) (abstract). *J. Immunol.* 186 (suppl 1):53.6. [AAI Annual Scientific Meeting, San Francisco, CA]
111. Foeldvari, I., Tzaribachev, N., Wierk, A., and **Cron, R.Q.** 2011. Update on the results of a multinational survey regarding diagnosis and treatment of the temporomandibular joint involvement in juvenile idiopathic arthritis – reflection of the day to day practice (abstract). *Pediatr. Rheumatol. Online J.* 9 (suppl 1):P110. [PREs Congress, Bruges, Belgium]
112. Foeldvari, I., Tzaribachev, N., Wierk, A., and **Cron, R.Q.** 2011. Results of a multinational survey regarding diagnosis and treatment of the temporomandibular joint involvement in juvenile idiopathic arthritis (abstract). *Clin Exper. Rheumatol.* 29 (suppl 2):378. [1 citation]
113. **Cron, R.Q.**, and Waite, P.D. 2011. Intra-articular infliximab treatment of refractory TMJ arthritis in children with JIA (abstract). *Arthritis Rheum.* 63 (suppl 10):S103-S104. [ACR 2011, Chicago, IL]
114. Davi, S., Lattanzi, B., Demirkaya, E., Rosina, S., Novelli, A., Ruperto, N., Martini, A., **Cron, R.Q.**, and Ravelli, A. 2012. Clinical and therapeutic features of 270 patients with macrophage activation syndrome (abstract). *Ann. Rheum. Dis.* 71:99. [EULAR, Berlin, Germany] [1 citation]
115. Morlandt, A.B.M., Stoll, M.L., **Cron, R.Q.**, Teerawattanapong, S., and Waite, P.D. 2012. Intra-articular infliximab treatment improves refractory TMJ arthritis in children with juvenile idiopathic arthritis (abstract). *J. Oral Maxillofac. Surg.*, submitted. [AAOMS Annual Meeting, San Diego, CA]
116. Powell, C., Brown, E.E., McGwin, Jr., G., Vila, L.M., Santiago-Casas, Y., Petri, M., Ramsey-Goldman, R., Reveille, J.D., Duran, S., Toloza, S., Brey, R., Escalante, A., **Cron, R.**, Kimberly, R.P., and Alarcon, G.S. 2012. Differences in the SLE clinical phenotype by age of diagnosis (abstract). *Arthritis Rheum.* 64 (suppl 10):S289. [ACR 2012, Washington, DC] [2 citations]
117. Davi, S., Lattanzi, B., Demirkaya, E., Rosina, S., Novelli, A., Ruperto, N., Martini, A., **Cron, R.Q.**, and Ravelli, A. 2012. Clinical and therapeutic features of 312 patients with macrophage activation syndrome enrolled in a multinational survey (abstract). *Arthritis Rheum.* 64 (suppl 10):S500-S501. [ACR 2012, Washington, DC]

118. **Cron, R.Q.**, Fain, E., Atkinson, G., Weiser, P., and Beukelman, T. 2012. Temporomandibular joint arthritis in patients with non-JIA childhood arthritis (abstract). *Pediatr. Rheumatol. Online J.* 10:1.
119. Harms, A.S., Cao, S., Rowse, A.L., **Cron, R.Q.**, Raman, C., and Standaert, D.G. 2012. Alpha-synuclein induces MCHII dependent CD4 T cell proliferation and activation of microglia (abstract). *J. Neuroimmunol.* 253:98-99.
120. Dunnivant, F.D., Guleria, S., Vaid, Y.N., Young, D.W., Royal, S.A., **Cron, R.Q.**, and Stoll, M.L. 2013. Magnetic resonance imaging of the temporomandibular joint in juvenile idiopathic arthritis and other pediatric rheumatic diseases (abstract). *Pediatr. Radiol.*, *accepted*. [Society for Pediatric Radiology Annual Meeting 2013, San Antonio, TX] – **Cum Laude award**
121. **Cron, R.Q.**, Tramballi, A., Beukelman, T., Weiser, P., Atkinson, T.P., and Stoll, M.L. 2013. High doses of infliximab in the management of juvenile idiopathic arthritis (abstract). *Ann. Rheum. Dis.* 72 (suppl 3):A744. [EULAR, Madrid, Spain]
122. Robinson, T., Oschsenbauer, C., Zhang, M., Genin, A., Lowe, R., Stoll, M., Kappes, J., and **Cron, R.Q.** 2013. The mechanism by which regulatory T cells inhibit HIV-1 infection of polarized human monocyte-derived macrophages (abstract), *submitted*. [UAB Spring Immunology Symposium 2013, Birmingham, AL]
123. Davi, S., Minoia, F., Horne, A., Demirkaya, E., Ilowite, N., Insalaco, A., Ioseliani, M., Jelusic-Drazic, M., Kapovic, M.A., Kasapcopur, O., Kone-Paut, I., Lepore, L., Li, C., Magni-Manzoni, S., Maritsi, D., McCurdy, D., Merino, R., Miettunen, P., Ruperto, N., Martini, A., **Cron, R.Q.**, and Ravelli, A. 2013. Comparison of sensitivity and specificity of MAS and HLH diagnostic guidelines in 362 children with MAS complicating systemic JIA (abstract). *Pediatr. Rheumatol. Online J.* 11 (suppl 2):P114. [PReS Meeting, Ljubljana, Slovenia]
124. Minoia, F., Davi, S., Horne, A., Consolaro, A., Rosina, S., Davidsons, Z., De Cunto, C., De Inocencio, J., Eisenstein, E., Espade, G., Fishbach, M., Frosch, M., Gallizzi, R., Gamir, M.L., Griffin, T., Grom, A., Hennon, T., Horneff, G., Huasong, Z., Ruperto, N., Martini, A., **Cron, R.Q.**, and Ravelli, A. 2013. Clinical features, therapeutic interventions and outcome of 362 patients with macrophage activation syndrome enrolled in a multinational survey (abstract). *Pediatr. Rheumatol. Online J.* 11 (suppl 2):P153. [PReS Meeting, Ljubljana, Slovenia]
125. Shakoory, B., Carcillo, J., Zhao, H., **Cron, R.**, Dinarello, C., and Opal, S. 2013. IL-1 receptor antagonist improves mortality in severe sepsis subset with hemophagocytic syndrome (abstract). *Crit. Care Med.* 41:A279. [Society of Critical Care Medicine (SCCM) Congress, San Francisco, CA] **[4 citations]**
126. Wolschendorf, F., Duverger, A., Anderson, J.C., Wagner, F., Bosque, A., Jones, J., Planelles, V., Willey, C., **Cron, R.Q.**, and Kutsch, O. 2013. Kinase control of latent HIV-1 infection (abstract), *submitted*. [HIV Persistence during Therapy 6th International Workshop, Miami, FL]
127. Robinson, T., Zhang, M., Lowe, R.M., and **Cron, R.Q.** 2014. Regulatory CD4 T cells differentially modulate HIV-1 infection of polarized M1 and M2 macrophages (abstract), *accepted*. [3rd annual Southeastern Immunology Symposium, Emory University, Atlanta, GA]

128. Robinson, T., Zhang, M., Lowe, R.M., and **Cron, R.Q.** 2014. Regulatory CD4 T cells differentially modulate HIV-1 infection of polarized M1 and M2 macrophages (abstract), *submitted. J. Int. AIDS Soc. 17 (Suppl 1):??, accepted.* [20th International AIDS Conference, Melbourne, Australia]
129. Davi, S., Minoia, F., Horne, A., Bovis, F., Demirkaya, E., Akikusa, J., Ayaz, N.A., Barone, P., Bica, B., Bolt, I., Breda, L., Davidsons, Z., De Cunto, C., De Inocencio, J., Enciso, S., Gallizzi, R., Griffin, T., Hennon, T., Horneff, G., Ioseliani, M., Jeng, M., Kapovic, A.M., Lattanzi, B., Lipton, J.M., Magni-Manzoni, S., Nassif, C., Rumba, I., Magalhaes, C.S., Al-Mayouf, S., Sewairi, W.M., Stine, K.C., Vougiouka, O., Weaver, L., Zletni, M.A., Ruperto, N., Martini, A., **Cron, R.Q.**, and Ravelli, A., 2014. Dissecting the heterogeneity of macrophage activation syndrome (abstract). *Pediatr. Rheumatol. Online J.* 12(Suppl 1):P54. [PReS Meeting, Belgrade, Serbia]
130. Minoia, F., Davi, S., Horne, A., Bovis, F., Demirkaya, E., Consolaro, A., Akikusa, J., Ayaz, N.A., Barone, P., Bica, B., Bolt, I., Breda, L., Davidsons, Z., De Cunto, C., De Inocencio, J., Enciso, S., Gallizzi, R., Griffin, T., Hennon, T., Horneff, G., Ioseliani, M., Jeng, M., Kapovic, A.M., Lattanzi, B., Lipton, J.M., Magni-Manzoni, S., Nassif, C., Rumba-Rozenfelde, I., Saad-Magalhaes, C., Almayouf, S., Al-Sewairi, W., Stine, K.C., Vougiouka, O., Weaver, L.K., Ruperto, N., Martini, A., **Cron, R.Q.**, and Ravelli, A., 2014. Dissecting the heterogeneity of macrophage activation syndrome (abstract). *Arthritis Rheum.* 66 (suppl 10):S994. [ACR 2014, Boston, MA]
131. Tambralli, A., Beukelman, T., **Cron, R.Q.**, and Stoll, M.L. 2014. Safety and efficacy of rituximab in pediatric lupus and other rheumatic diseases (abstract). *Arthritis Rheum.* 66 (suppl 10):S568. [ACR 2014, Boston, MA]
132. Kwong, J., Peng, T. Mohiuddin, A., Weiss, P., **Cron, R.Q.**, Chefitz, D., Craig, V., Weissmann, D., Andugar-DeLaCruz, J., and Moorthy, L.N. 2014. Treatment of refractory macrophage activation syndrome in systemic juvenile idiopathic arthritis with high dose anakinra (abstract). *Ann. Allergy Asthma Immunol.* 113 (suppl):A71. [ACAAI, American College of Allergy, Asthma & Immunology, Atlanta, GA]
133. Robinson, T., Zhang, M., Lowe, R.M., and **Cron, R.Q.** 2015. Regulatory CD4 T cells differentially modulate HIV-1 infection of polarized M1 and M2 macrophages (abstract). *J. Immunol.* 194 (suppl 1):215.22. [AAI Meeting, New Orleans, LA]
134. Horne, A., Minoia, F., Davi, S., Bovis, F., Rosina, S., Lehmberg, K., Weitzman, S., Insalaco, A., Wouters, C., Shenoi, S., Espada, G., Ozen, S., Anton, J., Khubchandani, R., Russo, R., Ruperto, N., Martini, A., **Cron, R.**, and Ravelli, A. 2015. Macrophage activation syndrome and familial hemophagocytic lymphohistiocytosis: is their clinical phenotype really similar (abstract)? *Ann. Rheum. Dis.* 74 (suppl 2):836. [EULAR, Rome, Italy]
135. Stoll, M.L., Wilson, L., Barnes, S., Kumar, R., Genin, A., **Cron, R.Q.**, Elson, C.O., Morrow, C., and Lefkowitz, E. 2015. Multi-omics studies of enthesitis-related arthritis identify diminished microbial diversity and altered tryptophan metabolism as potential factors in disease pathogenesis (abstract). *Arthritis Rheumatol.* 67 (suppl 10):S??. [ACR 2015, San Francisco, CA]

136. Amin, D., Harvey, R., Stoll, M., **Cron, R.Q.**, and Waite, P.D. 2015. Clinical outcomes of 297 children with juvenile idiopathic arthritis and TMJ disease (abstract). *J. Oral Maxillofac. Surg.* 73:e20-e21.
137. Goh, K.S., Minoia, F., Ravelli, A., **Cron, R.Q.**, and Shakoory, B. 2015. An organ based diagnostic approach to macrophage activation syndrome in children demonstrates impaired reticuloendothelial system clearance (abstract). *Arthritis Rheumatol.* 67 (suppl 10):S1831-1833. [ACR 2015, San Francisco, CA]
138. Minoia, F., Horne, A., Davi, S., Bovis, F., Rosina, S., Lehmborg, K., Weitzman, S., Insalaco, A., Wouters, C., Shenoi, S., Espada, G., Ozen, S., Anton, J., Khubchandani, R., Russo, R., Ruperto, N., Martini, A., **Cron, R.Q.**, and Ravelli, A. 2015. Macrophage activation syndrome and familial hemophagocytic lymphohistiocytosis: is their clinical phenotype really similar (abstract)? *Arthritis Rheumatol.* 67 (suppl 10):1830-1831. [ACR 2015, San Francisco, CA]
139. Robinson, T., Zhang, M., and **Cron, R.Q.** 2016. Regulatory CD4 T cells differentially modulate HIV-1 infection of polarized M1 and M2 macrophages (abstract). *J. Immunol.* 196 (suppl 1):147.14. [AAI Meeting, Seattle, WA]
140. Minoia, F., Horne, A., Bovis F., Davi, S., Pagani, L., Espada, G., Gao, Y-j., Insalaco, A., Lehmborg, K., Sanner, H., Shenoi, S., Weitzman, S., Ruperto, N., Martini, A., **Cron, R.Q.**, and Ravelli, A. 2016. Development and initial validation of the “MH score”, a diagnostic tool that differentiates primary hemophagocytic lymphohistiocytosis from macrophage activation syndrome (abstract). *Pediatr. Blood Cancer* 63:S50. [PReS Meeting, Genoa, Italy]
141. Davi, S., Minoia, F., Horne, A., Wulffraat, N., Wouters, C., Wallace, C. Uziel, Y., Sterba, G., Schneider, R., Russo, R., Ramanan, A.V., Pachlopnik-Schmid, J., Ozen, S., Nichols, K.E., Miettunen, P., Lovell, D.J., Lehmborg, K., Kitoh, T., Khubchandani, R., Ilowite, N.T., Henter, J.-I., Grom, A.A., De Benedetti, F. Behrens, E.M., Avcin, T., Arico, M., Martini, A., Ruperto, N., **Cron, R.Q.**, and Ravelli, A. 2016. Change in expert consensus based on availability of additional laboratory data over the course of MAS (abstract). *Pediatr. Rheumatol. Online J.* ??(Suppl ?):??. [PReS Meeting, Genoa, Italy]
142. Alongi, A., Bovis, F., Minoia, F., Davi, S., Martini, A., Ruperto, N., **Cron, R.Q.**, and Ravelli, A. 2016. Distinct change patterns of laboratory biomarkers in macrophage activation syndrome complicating systemic juvenile idiopathic arthritis: a latent growth mixture model analysis (abstract). *Pediatr. Rheumatol. Online J.* ??(Suppl ?):??. [PReS Meeting, Genoa, Italy]
143. Horne, A., Minoia, F., Bovis, F., Davi, S., Pal, P., Anton, J., Stein, K., Encisco, S., Kasapcopur, O., Jeng, M., Maritsi, D., **Cron, R.Q.**, and Ravelli, A. 2016. Factors associated with etoposide usage in children with macrophage activation syndrome complicating systemic juvenile idiopathic arthritis (abstract). *Pediatr. Rheumatol. Online J.* ??(Suppl ?):??. [PReS Meeting, Genoa, Italy]
144. Horne, A., Minoia, F., Bovis, F., Davi, S., Pal, P., Anton, J., Stein, K., Encisco, S., Kasapcopur, O., Jeng, M., Maritsi, D., **Cron, R.Q.**, and Ravelli, A. 2016. Factors associated with etoposide usage in children with macrophage activation syndrome complicating systemic juvenile idiopathic arthritis (abstract). *Pediatr. Blood Cancer* 63 (suppl S2):S42-43. [32nd Annual Histiocyte Society Meeting, Dublin, Ireland]

145. Minoia, F., Horne, A., Bovis, F., Davi, S., Pagani, L., Espada, G., Gao, Y-J., Insalaco, A., Lehmborg, K., Sanner, H., Shenoi, S., Weizman, S., Ruperto, N., Martini, A., **Cron, R.Q.**, and Ravelli, A. 2016. Development and initial validation of the “MH Score”, a diagnostic tool that differentiates primary hemophagocytic lymphohistiocytosis from macrophage activation syndrome (abstract). *Pediatr. Blood Cancer* 63 (suppl S2):S50. [32nd Annual Histiocyte Society Meeting, Dublin, Ireland]
146. Stoll, M.L., Duck, L.W., **Cron, R.Q.**, and Elson, C.O. 2016. Identification of a potential commensal immunologic target in enthesitis-related arthritis (abstract). *Arthritis Rheumatol.* 68 (suppl 10):S???. [ACR 2016, Washington, DC]
147. Stoll, M.L., Weiss, P., Weiss, J., **Cron, R.Q.**, Elson, C.O., Morrow, C., Lefkowitz, E., and Schoeb, T. 2016. Human gut microbial species correlate with arthritis in the K/BxN mouse model (abstract). *Arthritis Rheumatol.* 68 (suppl 10):S???. [ACR 2016, Washington, DC]
148. Davi, S., Minoia, F., Horne, A., Wulffraat, N., Wouters, C., Wallace, C. Uziel, Y., Sterba, G., Schneider, R., Russo, R., Ramanan, A.V., Pachlopnik-Schmid, J., Ozen, S., Nichols, K.E., Miettunen, P., Lovell, D.J., Lehmborg, K., Kitoh, T., Khubchandani, R., Ilowite, N.T., Henter, J.-I., Grom, A.A., De Benedetti, F. Behrens, E.M., Avcin, T., Arico, M., Martini, A., Ruperto, N., **Cron, R.Q.**, and Ravelli, A. 2016. Change in expert consensus based on availability of additional laboratory data over the course of MAS (abstract). *Arthritis Rheumatol.* 68 (suppl 10):S???. [ACR 2016, Washington, DC]
149. Schulert, G., Minoia, F., Bohnsack, J., **Cron, R.**, Hashad, S., Kone-Paut, I., Kostik, M., Lovell, D., Maritsi, D., Nigrovic, P., Pal, P., Ravelli, A., Shimizu, M., Stanevicha, V., Vastert, S., de Benedetti, F., and Grom, A. 2016. Biologic therapy modifies clinical and laboratory features of macrophage activation syndrome associated with systemic juvenile idiopathic arthritis (abstract). *Arthritis Rheumatol.* 68 (suppl 10):S???. [ACR 2016, Washington, DC]
150. Bami, S.S., Badawi, M., Cannone, D.S., **Cron, R.Q.**, and Levy, C.F. 2017. The use of anakinra (interleukin-1 receptor antagonist) in the treatment of secondary hemophagocytic lymphohistiocytosis (abstract). *Pediatr. Blood Cancer* 64(suppl S1):S32. [American Society of Pediatric Hematology/Oncology Annual Meeting, Montreal Quebec]
151. Tolend, M., Miller, E.V., Inarejos, E., VanRossum, M.A., Kellenberger, C., Tzaribachev, N., Stimec, J., **Cron, R.Q.**, Koos, B., Stimec, J., Twilt, M., Saurenmann, T., Von Kalle, T., Patel, H., Aprango, M., Jaremko, J., Meyers, A.B., Yotichcmch, J., Appenzeller, S., Resnick, C., Abram, S., Spiegel, L., Feldman, B., Tomlinson, G., and Doria, A. 2017. The use of a discrete choice experiment to determine relative importance weights in scoring of magnetic resonance imaging of temporomandibular joints in juvenile idiopathic arthritis (abstract). [online publication] [Eastern Society of Pediatric Research Annual Meeting, Philadelphia, PA]
152. Eloiseily, E.M.A., Crayne, C., Mannion, M.L., Azert, S.P, Weiser, P, Beukelman, T., Stoll, M.L., Feig, D., Atkinson, P., and **Cron, R.Q.** 2017. Rituximab treatment for chronic steroid-dependent Henoch-Schonlein purpura (abstract). *Arthritis Rheumatol.* 69 (suppl 4):S153-155. [PRSYM meeting, Houston, TX]

153. Eloiseily, E.M.A., Weiser, P., Haines, H.L., Mannion, M.L., Stoll, M.L., Beukelman, T., Atkinson, T.P., and **Cron, R.Q.** 2017. Benefit of anakinra in treating pediatric secondary hemophagocytic lymphohistiocytosis (abstract). *Arthritis Rheumatol.* 69 (suppl ?):S??. [PRSYM meeting, Houston, TX]
154. Stoll, M.L. Morrow, C.D., Weiss, P.F., Weiss, J.A., Maynard, C.L., Duck, L.W., Elson, C.O., Zhang, M., **Cron, R.Q.**, Lefkowitz, E.J., Kumar, R., and Schoeb, T.R. 2017. *Akkermansia muciniphila* may be permissive to arthritis in the K/BxN mouse model of arthritis (abstract). *Arthritis Rheumatol.* 69 (suppl ?):S??. [PRSYM meeting, Houston, TX]
155. Horne, A., Minoia, F., Bovis, F., Davi, S., Pal, P., Anton, J., Stein, K., Encisco, S., Kasapcopur, O., Jeng, M., Maritsi, D., **Cron, R.Q.**, and Ravelli, A. 2017. Factors associated with etoposide usage in children with macrophage activation syndrome complicating systemic juvenile idiopathic arthritis (abstract). *Arthritis Rheumatol.* 69 (suppl 4):S111. [PRSYM meeting, Houston, TX]
156. Tolend, M., Junhasavasdiku, T., Abramowicz, S., Appenzeller, S., **Cron, R.Q.**, Clemente, E.J., Jaremko, J.L., von Kalle, T., Kellenberger, C.J., Koos, B., Meyers, A.B., Miller, E., Panwar, J., Patel, H., Resnick, C., van Rossum, M.A., Saurenmann, R.K., Shelmerdine, S.C., Spiegel, L., Stimec, J., Twilt, M., Tzaribachev, N., and Doria, A.S. 2017. The use of a discrete choice experiment to determine relative importance weights in scoring of magnetic resonance imaging of temporomandibular joints in juvenile idiopathic arthritis (abstract). [European Society of Pediatric Radiology annual meeting, Davos, Switzerland]
157. Minoia, F., Bovis, F., Davi, S., Horne, A., Fischbach, M., Frosch, M., Huber, A., Jelusic-Drazic, M., Sawhney, S., McCurdy, D., Silva, C.A., Rigante, D., Ruperto, N., Martini, A., **Cron, R.Q.**, and Ravelli, A. 2017. A diagnostic score for early detection of macrophage activation syndrome in systemic juvenile idiopathic arthritis based on an improper linear model method (abstract). *Pediatr. Rheumatol. Online J.* ??(Suppl ?):??. [PReS annual meeting, Athens, Greece]
158. Eloiseily, E.M., Crayne, C.B., Mannion, M.L., Azert, S.P, Weiser, P., Beukelman, T., Stoll, M.L., Atkinson, T.P., and **Cron, R.Q.** 2017. Rituximab treatment of chronic steroid-dependent Henoch-Schonlein purpura (abstract). [5th Annual James and Nancy Cassidy Pediatric Rheumatology Symposium, Columbia, MO]
159. Eloiseily, E.M., Weiser, P., Haines, H., Mannion, M., Stoll, M.L., Beukelman, T., Atkinson, P, and **Cron, R.Q.** 2017. Benefit of anakinra in treating pediatric secondary hemophagocytic lymphohistiocytosis (abstract). [5th Annual James and Nancy Cassidy Pediatric Rheumatology Symposium, Columbia, MO] [winner of Best Poster award]
160. Stoll, M.L., Weiss, P.F., Weiss, J.E., Nigrovic, P.A., Edelheit, B.S., Bridges, S.L., Danila, M., Spencer, C.H., Punaro, M., Schikler, K., Reiff, A., Kumar, R., **Cron, R.Q.**, Morrow, C.D., and Lefkowitz, E.J. 2017. Children with treatment-naïve enthesitis-related arthritis have decreased fecal abundance of *Faecalibacterium prausnitzii* A2-165 and *Bacteroides fragilis*: a multi-center collaborative study (abstract). *Arthritis Rheumatol.* 69 (suppl 10):S?? [ACR 2017, San Diego, CA]
161. Minoia, F., Bovis, F., Davi, S., Fischbach, M., Frosch, M., Huber, A., Jelusic-Drazic, M., Sawhney, S., McCurdy, D., Silva, C.A., Rigante, D., Ruperto, N., Martini, A., **Cron,**

- R.Q.**, and Ravelli, A. 2017. The MS score: a diagnostic score for early detection of macrophage activation syndrome in systemic juvenile idiopathic arthritis (abstract). *Arthritis Rheumatol.* 69 (suppl 10):S?? [ACR 2017, San Diego, CA]
162. Reed, A.B., Vinod, S.S., Eloiseily, E.M., Maxwell, J., Stoll, M.L., and **Cron, R.Q.** 2017. Pediatric rheumatology infusion center: report on therapeutic protocols and infusion reactions over 3 years (abstract). *Arthritis Rheumatol.* 69 (suppl 10):S?? [ACR 2017, San Diego, CA]
163. Zhang, K., Jan, J., Denton, J., Nortman, S., Dyer, L., Valencia, C.A., Jeng, M., Grom, A., Nichols, K., **Cron, R.**, Marsh, R, and Jordan, M. 2017. Comprehensive strategy to establish the clinical diagnosis for patients with hemophagocytic lymphohistiocytosis (abstract). *Pediatr. Blood Cancer* 64 (suppl 11):S43.
164. **Cron, R.Q.**, Zhang, M., Chatham, W.W., and Absher, D. 2018. Genetic defects in cytotoxicity in patients with macrophage activation syndrome enrolled in a clinical trial to explore interleukin-1 blockade therapy (abstract). [AMC21 UAB SOM Research Retreat Birmingham, AL]
165. Crayne, C.B., Eloiseily, E.M., Mannion, M.L., Azert, S.P, Weiser, P., Beukelman, T., Stoll, M.L., Atkinson, T.P., and **Cron, R.Q.** 2018. Rituximab treatment for chronic steroid-dependent Henoch-Schonlein purpura (abstract). *Arthritis Rheumatol.* 70 (suppl 10):S?? [ACR 2018, Chicago, IL]
166. Zhang, M., Cron, R.R., Absher, D., Crayne, C.B., Atkinson, T.P., Chatham, W.W., and **Cron, R.Q.** 2019. Characterization of DOCK8 as a novel gene associated with macrophage activation syndrome (abstract). *Arthritis Rheumatol.* 71 (suppl 10):S?? [ACR 2019, Atlanta, GA]
167. Ferrara, G., Giani, T., Lieberman, S.M., Hong, S., Indolfi, G., Schulert, G., **Cron, R.Q.**, Mannion, M.L., Lapidus, S., Jacquemin, E., Kone-Paut, I., and Cimaz, R. 2019. Alagille syndrome and chronic arthritis: an international case series (abstract). *Arthritis Rheumatol.* 71 (suppl 10):S?? [ACR 2019, Atlanta, GA]
168. Reiff, D., Crayne, C.B., Mannion, M., and **Cron, R.Q.** 2019. Characteristics of coexisting localized scleroderma and juvenile idiopathic arthritis (abstract). *Arthritis Rheumatol.* 71 (suppl 10):S?? [ACR 2019, Atlanta, GA]
169. Saper, V., Kwong, B., Collins, K., Mellins, E.D., and **54 physicians reporting cases of lung disease in sJIA [Cron, R.Q.]**. 2020. Drug Reaction and High Fatality Lung Disease in Systemic Onset Juvenile Idiopathic Arthritis (sJIA) (abstract). *J. Allergy Clin. Immunol.* 145 (suppl):S?? [AAAAI Annual Meeting, Philadelphia, PA]
170. Minoia, F., Tibaldi, J., Muratore, V., Gallizzi, R., Bracaglia, C., Arduini, A., Comak, E., Vougiouka, O., Trauzeddel, R., Filocamo, G., Micalizzi, C., Kasapcopur, O., Unsal, E., Kitoh, T., Tsitsamis, E., Kostik, M., **Cron, R.Q.**, Pachlopnik, J., Maritsi, D., Jelusic, M., Shenoï, S., and Ravelli, A. 2020. A multinational study of thrombotic microangiopathy in macrophage activation syndrome: a dreadful condition which is likely underrecognized (abstract). *Arthritis Rheumatol.* 72 (suppl ??):S?? [PRSYM 2020, New Orleans, LA]
171. Zhang, M., Cron, R.R., Absher, D., Atkinson, P., Chatham, W.W., and **Cron, R.Q.** 2020. Characterization of *DOCK8* as a novel gene associated with hemophagocytic lymphohistiocytosis (abstract). *J. Immunol.* 204 (1 Supplement) 145.4. [AAI Meeting 2020, Honolulu, HI]

Oral Presentations by Dr. Cron (International bolded):

172. **Cron, R.**, Pardoll, D., Sachs, D.H., and Bluestone, J.A. 1987. Activation of peripheral T3+, Lyt2-, L3T4- T-cells using anti-T3 mAb (abstract). *Fed. Proc.* 46:1026. [FASEB Meeting, Washington, D.C.]
173. **Cron, R.Q.**, Bort, S.J., Schubert, L.A., and Lewis, D.B. 1998. Decreased NFAT1: a potential mechanism for decreased cytokine production by neonatal T cells (abstract). *Pediatr. Res.* 43:7. [Pediatric Academic Societies' Annual Meeting, New Orleans, LA]
174. **Cron, R.Q.**, Schubert, L.A., and Lewis, D.B. 1998. Identification of an enhancer element located downstream of the CD40-ligand gene (abstract). *Arthritis Rheum.* 41 (suppl 9):S235. [American College of Rheumatology Annual Scientific Meeting, San Diego, CA]
175. **Cron, R.Q.**, and Brunner, M. 2000. Transcriptional regulation of CD154 (CD40-ligand) in primary CD4 T lymphocytes (abstract). MAPS-CHRC national meeting, Bethesda, MD.
176. **Cron, R.Q.**, Genin, A., and Brunner, M. 2001. Regulation of CD154 in systemic lupus erythematosus (abstract). *Ann. Rheum. Dis.* 60 (suppl I):A33-34. [EULAR meeting, **Prague, Czech Republic**]
177. **Cron, R.Q.**, Lee, P., Genin, A., and Lewis, D.B. 2001. Generation of conditional NFAT1 transgenic mice (abstract). American College of Rheumatology Annual Scientific Meeting, San Francisco, CA.
178. **Cron, R.Q.**, and Brunner, M. 2002. Identification of a novel GATA-regulated CD154 transcriptional enhancer (abstract). SLE: Targets for New Therapeutics. Bethesda, MD.
179. **Cron, R.Q.**, Genin, A., and Brunner, M. 2002. Identification of a novel GATA-regulated CD154 transcriptional enhancer (abstract). Experimental Biology meeting, New Orleans, LA. *FASEB J.* 16:A694. [**1 citation**]
180. **Cron, R.Q.**, Genin, A., and Brunner, M. 2002. A novel GATA-regulated CD154 transcriptional enhancer (abstract). EULAR meeting. **Stockholm, Sweden.** *Ann. Rheum. Dis.* 61 (suppl I):8.
181. **Cron, R.Q.**, Brunner, M., and Genin, A. 2003. Regulation of CD154 in pediatric systemic lupus erythematosus (abstract). Pediatric Rheumatology International Meeting, Snowmass, CO, *Pediatr. Rheumatol. Online J.*, in press.
182. **Cron, R.Q.**, Genin, A., and Brunner, M. 2003. Identification of a novel GATA-regulated CD154 transcriptional enhancer (abstract). Society for Pediatric Research Meeting, Seattle, WA. *Pediatr. Res.*, 53:17A.
183. **Cron, R.Q.**, Bandyopadhyay, R., Genin, A., Brunner, M., Kersh, G.J., and Crow, M.K. 2003. Egr-1 regulates CD154 transcription (abstract). Arthritis Research Conference, Keystone, CO, *accepted*.
184. **Cron, R.Q.**, Bandyopadhyay, R., Genin, A., Brunner, M., Kersh, G.J., and Crow, M.K. 2003. Egr-1 regulates CD154 transcription (abstract). American College of Rheumatology Meeting, Orlando, FL. *Arthritis Rheum.* 48 (suppl 9):S650-S651.
185. **Cron, R.Q.**, Centola, M., Frank, B., Dozmoroz, I., Genin, A., and Torgerson, T.R. 2006. Inhibition of NFAT2 expression by FOXP3 (abstract). Keystone Symposia – Lymphocyte Activation and Signaling, Steamboat, CO.

186. **Cron, R.Q.**, and Torgerson, T.R. 2006. Inhibition of NFAT2 transcription by the regulatory T cell transcription factor, FOXP3 (abstract). American College of Rheumatology Annual Scientific Meeting, Washington, D.C.
187. **Cron, R.Q.**, Wells, A.D., and Torgerson, T.R. 2008. Inhibition of NFAT2 expression by FOXP3 (abstract). Experimental Biology Annual Scientific Meeting. San Diego, CA. *Faseb J.* 22 (suppl 1):848.
188. **Cron, R.Q.** 2009. TMJ in JIA, the most frequently used joint is the most commonly involved (abstract). EULAR Annual Scientific Congress, **Copenhagen, Denmark**. *Ann. Rheum. Dis.* ??
189. **Cron, R.Q.**, Zhang, M., Bemrich-Stolz, C.J., and Beukelman, T. 2012. Rapid and effective response to immunosuppression in treating macrophage activation syndrome associated with a heterozygous dominant negative mutation in RAB27a leading to decreased cytolytic capacity (abstract). *Arthritis Rheum.* 64 (suppl 10):S1125. [ACR 2012, Washington, DC]
190. **Cron, R.Q.**, and Zhang, M. 2013. Blurring of the distinction between hemophagocytic lymphohistiocytosis and macrophage activation syndrome (abstract). *J. Immunol.* 190:175.1. [AAI Meeting, Honolulu, HI]
191. **Cron, R.Q.**, and Zhang, M. 2013. Blurring of the distinction between hemophagocytic lymphohistiocytosis and macrophage activation syndrome (abstract). *Ann. Rheum. Dis.* 72 (suppl 3):A53-A54. [EULAR Meeting, **Madrid, Spain**]
192. **Cron, R.Q.**, Weiser, P., Shakoory, B., and Chatham, W.W. 2014. Treatment of MAS: immunomodulation versus chemotherapy (abstract). *Pediatr. Blood Cancer* 62 (suppl S1):??. [30th Annual Histiocyte Society Meeting, **Toronto, ON**]
193. Zhang, M., Bracaglia, C., Prencipe, G., Bemrich-Stolz, C.J., Beukelman, T., Dimmitt, R.A., Chatham, W.W., Zhang, K., Li, H., Walter, M.R., De Benedetti, F., Grom, A.A., and **Cron, R.Q.** 2016. A heterozygous *RAB27A* mutation causes delayed cytolytic granule polarization and hemophagocytic lymphohistiocytosis in 2 unrelated teenagers (abstract). *J. Immunol.* 196 (suppl 1):193.1. [AAI Meeting, Seattle, WA] [**1 citation**]
194. **Cron, R.Q.**, Schulert, G., Zhang, M., Husami, A., Fall, N., Brunner, H., Zhang, K., and Grom, A. 2018. Novel *UNC13D* intronic variant altering a NFκB enhancer in a patient with recurrent macrophage activation syndrome and systemic juvenile idiopathic arthritis (abstract). *J. Immunol.* (suppl 1):??. [Block Symposium talk, AAI Meeting, Austin, TX]
195. Zhang, M., Cron, R.R., Absher, D., Atkinson, P., Chatham, W.W., and **Cron, R.Q.** 2020. Characterization of *DOCK8* as a novel gene associated with cytokine storm syndrome (abstract). *Arthritis Rheumatol.* 72 (suppl ??):S?? [Genetics & Pathogenesis session, PRSYM 2020, New Orleans, LA]
196. **Cron, R.Q.**, Cron, R.R., Absher, D., Atkinson, P., Chatham, W.W., Verecha, A., Lozinsky, S., Fein Levy, C., and Zhang, M. 2020. Characterization of *DOCK8* as a novel gene associated with cytokine storm syndrome (abstract). *Pediatr. Blood Cancer* ?? [Histiocyte Society Annual Meeting 2020, virtual]
197. Zhang, M., Cron, R.R., Absher, D., Atkinson, P., Chatham, W.W., and **Cron, R.Q.** 2020. Characterization of *DOCK8* as a novel gene associated with cytokine storm syndrome (abstract). *Arthritis Rheumatol.* 72 (suppl 10):S?? [ACR 2020, Washington, DC]

Oral Presentations by Co-Authors:

198. Hamilton, B.J., Genin, A., **Cron, R.Q.**, and Rigby, W.F.C. 2002. Delineation of a novel pathway that regulates CD154 (CD40 Ligand) expression (abstract). *Arthritis Rheum.* 45 (suppl 9):S196-S197. [presented as a plenary talk at the national rheumatology (ACR) meeting by Dr. Rigby]
199. Hamilton, B.J., Genin, A., **Cron, R.Q.**, and Rigby, W.F.C. 2003. CD154 (CD40 Ligand) expression is regulated through a unique post-transcriptional pathway (abstract). Arthritis Research Conference, Keystone, CO, *accepted*. [oral presentation by Dr. Rigby]
200. Cahill, A.M., Kaye, R.D., Baskin, K.M., Arabshahi, B., Dewitt, E.M., **Cron, R.**, and Towbin, R.B. 2004. CT guided percutaneous steroid injection for treatment of inflammatory arthropathy of the temporomandibular joint (TMJ) in children (abstract). Cardiovascular and Interventional Radiologic Society of Europe Annual Meeting. [accepted for oral presentation by Dr. Cahill]
201. Burnham, J.M., Jr., Shults, J., Finkel, T.H., **Cron, R.Q.**, Sherry, D.D., Zemel, B.S., and Leonard, M.B. 2004. Cortical bone strength, trabecular volumetric density, and muscle mass are decreased in JRA (abstract). *Arthritis Rheum.* 50 (suppl 9):S265. [oral presentation by Dr. Burnham]
202. Zoltick, P.W., Genin, A., Flake, A.W., and **Cron, R.Q.** 2005. Gene therapy for X-linked hyper-IgM syndrome (abstract). Stokes Scientific Symposium, *invited to speak*, page 19.
203. Zoltick, P.W., Genin, A., Flake, A.W., and **Cron, R.Q.** 2005. Gene therapy for X-linked hyper-IgM syndrome (abstract). *Clin Immunol.* 116:304.
204. Behrens, E., Beukelman, T., Tustin, N., **Cron, R.Q.**, and Pessler, F. 2005. Secondary hemophagocytic lymphohistiocytosis: clinical and laboratory features in a recent cohort (abstract). *Clin Immunol.* 116:298-299.
205. Doris, B., Parks, J., Rankin, C., Schonbeck, U., **Cron, R.**, St. Clair, R., and Mishra, N. 2005. Histone deacetylase inhibitors may prevent atherosclerosis while treating lupus (abstract). *Arthritis Rheum.* 52 (suppl 9):S698. [1 citation]
206. Pessler, F., Dai, L., Einhorn, E., **Cron, R.Q.**, and Schumacher, H.R. 2006. Over-expression of the calcium-calcineurin-NFAT (NFAT) signaling pathway in rheumatoid arthritis synovium (abstract). *Ann. Rheum. Dis.* 65 (suppl 1):A23. Annual European Workshop for Rheumatology Research, Heraklion, Crete, *invited talk*.
207. Mehta, J., Genin, A., Brunner, M., Beukelman, T., Scalzi, E.V., Mishra, N., and **Cron, R.Q.** 2008. Prolonged CD154 expression in pediatric lupus CD4 T cells correlates with increased NFAT activity, NFATc1 levels, and glomerulonephritis (abstract). *Pediatr. Rheumatol.*, *accepted for oral presentation by Dr. Mehta*.
208. Mehta, J., Genin, A., Brunner, M., Beukelman, T., Scalzi, E.V., Mishra, N., and **Cron, R.Q.** 2008. Prolonged CD154 expression in pediatric lupus CD4 T cells correlates with increased NFAT activity, NFATc1 levels, and glomerulonephritis (abstract). Clinical Immunology Society, Spring School in Systemic Autoimmune Diseases, *accepted for oral presentation by Dr. Mehta*.
209. Davi, S., Lattanzi, B., Rosina, S., Demirk, E., Ruperto, N., Martini, A., **Cron, R.Q.**, and Ravelli, A. 2011. Sensitivity and specificity of current diagnostic guidelines in children with macrophage syndrome complicating systemic juvenile idiopathic arthritis (abstract).

- Pediatr. Rheumatol. Online J.* 9 (suppl 1):P101. [PREs Congress, Bruges, Belgium] [presented as an oral presentation by Dr. Davi] [4 citations]
210. Bernatsky, S., Labrecque, J., Clarke, A.E., von Scheven, E., Schanberg, L., Silverman, E., Brunner, H., **Cron, R.Q.**, O'Neil, K., Oen, K., Rosenberg, A., Duffy, C., Lee, J.L., Kale, M., Turnball, E., and Ramsey-Goldman, R. 2012. Cancer risk in pediatric-onset SLE (abstract). *Arthritis Rheum.* 64 (suppl 10):S1043-S1044. [ACR 2012, Washington, DC] [presented as an oral presentation by Dr. Bernatsky]
211. Stoll, M.L., Morlandt, A.B.P., Terrawattanapong, S., Young, D., Waite, P.D., and **Cron, R.Q.** 2012. Safety and efficacy of intra-articular infliximab therapy for treatment resistant temporomandibular joint arthritis in children (abstract). *Arthritis Rheum.* 64 (suppl 10):S716-S717. [ACR 2012, Washington, DC] [presented as an oral presentation by Dr. Stoll]
212. Lowe, R.M., Zhang, M., and **Cron, R.Q.** 2013. Role of FoxP3 in blocking transcriptional activation of HIV-LTR in regulatory T cells (abstract). [CNIHR meeting, Kuala Lumpur, Malaysia] [presented as an oral presentation by Dr. Lowe]
213. Davi, S., Lattanzi, B., Demirkaya, E., Rosina, S. Novelli, A., Ruperto, N., Martini, A., **Cron, R.Q.**, and Ravelli, A. 2013. Clinical and therapeutic features of 270 patients with macrophage activation syndrome enrolled in a multinational survey (abstract). *Ann. Rheum. Dis.* 72 (suppl 3):99. [EULAR Meeting, Madrid, Spain]
214. Dunnivant, F.D., Guleria, S., Vaid, Y.N., Young, D.W., Royal, S.A., **Cron, R.Q.**, and Stoll, M.L. 2013. Magnetic resonance imaging of the temporomandibular joint in juvenile idiopathic arthritis and other pediatric rheumatologic diseases (abstract). *Radiology, accepted* [Radiological Society of North America (RSNA) Annual Meeting 2013, Chicago, IL] [presented as an oral presentation by Dr. Dunnivant]
215. Lowe, R.M., Genin, A., and **Cron, R.Q.** 2013. Epigenetic regulation of the CD154 gene in children and adults with lupus (abstract). [2013 CHRC Annual Retreat, Aurora, CO] [presented as an oral presentation by Dr. Lowe]
216. Shakoory, B., Carcillo, J.A., **Cron, R.Q.**, and Opal, S.M. 2014. Serum ferritin levels may identify macrophage activation syndrome and guide immune modulation with IL-1 receptor antagonist in a severe sepsis cohort (abstract), [9th International Congress on Autoimmunity, Nice, France] [presented as an oral presentation by Dr. Shakoory]
217. Lowe, R.M., Zhang, M., and **Cron, R.Q.** 2014. Role of FoxP3 inhibition of transcriptional activation of HIV-LTR in regulatory T cells (abstract). [CNIHR meeting, Melbourne, Australia] [presented as an oral presentation by Dr. Lowe]
218. Minoia, F., Davi, S., Bovis, F., Pistorio, A., Arico, M., Avcin, T., Behrens, E., De Benedetti, F., Filipovich, L., Grom, A., Henter, J.I., Horne, A., Ilowite, N., Jordan, M., Khubchandani, R., Kitoh, T., Lehmborg, K., Lovell, D., Miettunen, P., Nichols, K., Pachlopnik, J., Ozen, S., Ramanan, A.V., Russo, R., Schneider, R., Sterba, G., Wallace, C., Wouters, C., Wulffraat, N., Uziel, Y., Ruperto, N., Martina, A., **Cron, R.Q.**, and Ravelli, A. 2014. Development of new classification criteria for macrophage activation syndrome complicating systemic juvenile idiopathic arthritis (abstract). *Pediatr. Rheumatol. Online J.* 12(Suppl 1):O1. [PREs Meeting, Belgrade, Serbia] [presented as an oral presentation by Dr. Ravelli] [7 citations]

219. Minoia, F., Horne, A., Bovis F., Davi, S., Pagani, L., Espada, G., Gao, Y-j., Insalaco, A., Lehmborg, K., Sanner, H., Shenoi, S., Weitzman, S., Ruperto, N., Martini, A., **Cron, R.Q.**, and Ravelli, A. 2016. Development and initial validation of the “MH score”, a new diagnostic tool that differentiates primary hemophagocytic lymphohistiocytosis from macrophage activation syndrome (abstract). *Arthritis Rheumatol.* 68 (suppl 10):S??. [ACR 2016, Washington, DC]
220. Eloiseily, E.M., Minoia, F., Beukelman, T., Ravelli, A., and **Cron, R.Q.** 2017. The ferritin to erythrocyte sedimentation rate ratio: a simple measure to distinguish macrophage activation syndrome from systemic arthritis flare (abstract). *Arthritis Rheumatol.* 69 (suppl 10):S?? [ACR 2017, San Diego, CA] [presented as an oral presentation by Dr. Eloiseily]
221. Mitchell, C., Crayne, C. and **Cron, R.** 2019. Failure of B cell repopulation following repeated rituximab infusions (abstract). [Southern Regional Meeting, Southern Society of Pediatric Research, New Orleans, LA] [presented as an oral presentation by Chace Mitchell; Dr. Crayne, **SSPR Trainee Travel Award Winner**]
222. Minoia, F., Bovis, F., Davi, S, Horne, A., Fischbach, M., Frosch, M., Huber, A., Jelusic-Drazic, M., Sawhney, S., McCurdy, D., Silva, C.A., Rigante, D., Unsal, E., Ruperto, N., Martini, A., **Cron, R.Q.**, and Ravelli, A. 2019. Development and initial validation of the MS score for diagnosis of macrophage activation syndrome in systemic juvenile idiopathic arthritis (abstract). *Arthritis Rheumatol.* 71 (suppl 10):S?? [ACR 2019, Atlanta, GA] [presented as an oral presentation by Dr. Minoia]

PATENTS:

- Sept., 2003 “Methods and Compositions for Increasing CD4+ T Lymphocyte Immune Responses”, US Application No. 10/673,882, University of Pennsylvania
- Aug., 2013 “T cell pseudo-anergy-like molecular mechanisms that control latent HIV-1 infection and therapeutically trigger HIV-1 reactivation”, US Application No. 61/839,499, University of Alabama at Birmingham

JOURNAL ARTICLE REVIEWER:

Section Leader for Paper Reports:

Arthritis Research, 2001-2003

Ad-Hoc Reviewer:

Advances in Medical Sciences
AIDS Research and Human Retroviruses
American Journal of Human Genetics
American Journal of Pathology
American Journal of Physiology – Cell Physiology
American Journal of the Medical Sciences
Annals of the Rheumatic Diseases
Archives of Disease in Childhood
Archives of Pediatric & Adolescent Medicine
Arthritis
Arthritis & Rheumatism
Arthritis & Rheumatology
Arthritis Care & Research
Arthritis Research & Therapy
Blood
Blood Advances
Blood and Lymphatic Cancer: Targets and Therapy
Blood Reviews
BMC Immunology
BMC Medicine
BMC Pediatrics
BMJ Case Reports
Cancer
Case Reports in Hematology
Clinical and Developmental Immunology
Clinical and Diagnostic Laboratory Immunology
Clinical Drug Investigation
Clinical and Experimental Immunology
Clinical and Experimental Rheumatology
Clinical and Vaccine Immunology
Clinical Immunology
Clinical Investigation
Clinical Neurology and Neurosurgery
Clinical Rheumatology
Clinics and Practice
European Journal of Immunology
European Journal of Oral Sciences
European Journal of Pediatrics
Expert Opinion on Biological Therapy

Expert Opinion on Drug Safety
Expert Opinion on Orphan Drugs
Expert Opinion on Pharmacotherapy
Expert Review of Clinical Immunology
F1000 Faculty Reviews
FASEB Journal
Frontiers in Immunology
Frontiers in Pharmacology
Future Rheumatology
Gene Therapy
Genes and Immunity
Haematologica
Hematological Oncology
Histology and Histopathology
Human Immunology
Immunological Investigations
Immunology
Infection and Immunity
Inflammation
International Immunology
International Journal of Immunogenetics
International Journal of Inflammation
International Journal of Rheumatology
Italian Journal of Pediatrics
JAMA Pediatrics
Journal of Advanced Research
Journal of Allergy and Clinical Immunology
Journal of Antivirals & Antiretrovirals
Journal of Biological Chemistry
Journal of Blood Research and Hematologic Diseases
Journal of Clinical Immunology
Journal of Clinical Investigation
Journal of Clinical Investigation Insight
Journal of Clinical Rheumatology
Journal of Immunology
Journal of Infection and Public Health
Journal of International Medical Research
Journal of Leukocyte Biology
Journal of Oral & Facial Pain and Headache
Journal of Pediatric Hematology/Oncology
Journal of Pediatric Intensive Care
Journal of Pediatric Neurology
Journal of Pediatrics
Journal of Perinatology

Journal of Rheumatology
Lancet
Lancet Haematology
Lancet Respiratory Medicine
Lancet Rheumatology
Leukemia Research
MedicalScience
Molecular and Cellular Biology
Molecular Diagnosis & Therapy
Nature Reviews Rheumatology
New England Journal of Medicine
Pediatric Drugs
Pediatric Nephrology
Pediatric Research
Pediatric Rheumatology
Pediatric Rheumatology Online Journal
Pediatrics
Pediatrics International
Pharmaceuticals
PLoS One
PLoS Pathogens
Rheumatology
Scandinavian Journal of Rheumatology
Scientific Reports
Seminars in Arthritis and Rheumatism
Swiss Medical Weekly
Translational Research
Virology
Virology Journal
Virus Research
World Journal of Pediatrics

BOOK PROPOSAL REVIEWER:

Pediatrics in Systemic Autoimmune Diseases (Elsevier publisher)

MISCELLANEOUS/VOLUNTEER WORK:

1. American Board of Pediatrics, General Pediatrics Board, question writer, 1995-2006
2. American Board of Pediatrics, Pediatric Rheumatology Board, question writer, 1999-2006
3. Camp JRA – camp physician/co-medical director, Millville, PA, July 2000-2007
4. Interviewee for West Chester University undergraduate course, History 445, April 2001
5. Assisting Editor/Medical Advisor for *Families in Touch* newsletter, a publication of the American Juvenile Arthritis Organization, 2002-present
6. Medical Advisor for *Kids Get Arthritis, Too*, a publication of the Arthritis Foundation, 2003
7. Invited speaker/guest, Juvenile Myositis Fund Raiser, Berretone Family Golf Outing/Auction, September 2003-2006
8. Speaker, “Genetics and Juvenile Arthritis” - American Juvenile Arthritis Organization (AJAO) National Conference, Hershey, PA, July 2007
9. Speaker, JIA Saturday, Arthritis Foundation sponsored outing for families of children with rheumatic diseases, Birmingham, AL, September 2007
10. Speaker, Arthritis Foundation, Jingle Bell Run/Walk for Arthritis, Kick-off Luncheon, St. Vincent’s Hospital, Birmingham, AL, October 2007
11. Non-paid consultant to book author, Kelly Rouba, for a book on juvenile arthritis, “Juvenile Arthritis: The Ultimate Teen Guide”, from Scarecrow Press as part of the “It Happened to Me” series, 2008
12. Camp MASH – camp physician, Mobile, AL, August 2008-present
13. Interviewee for University of Alabama, education graduate student, Ashley Perry, for course, BCE 542, Medical Aspects of Disabilities, October 2008
14. Speaker, “Cars, Keys and a Cure” Birmingham car show gala fund raiser for Autism and Arthritis, November 2008
15. Speaker, JIA Saturday, Arthritis Foundation sponsored outing for families of children with rheumatic diseases, Huntsville, AL, February 2009, 2010
16. Arthritis Foundation
 - Board of Directors, Alabama Chapter (2009-2010)
 - Alabama Advisory Board (2010-2013)
 - Board of Directors, Southeast Region (2010-2013)
17. Medical advisor to Jacksonville State University student, Tamara Tellis, for feature article in the COM 410 course, Media Features, 2010
18. Speaker, “JIA & Jaw Issues” - American Juvenile Arthritis Organization (AJAO) National Conference, Philadelphia, PA, July 2010
19. Speaker, “JIA & Jaw Issues” - American Juvenile Arthritis Organization (AJAO) National Conference, Crystal City, VA, July 2011
20. Speaker, Arthritis Foundation, JIA Saturday, Homewood, AL, August 2011
21. Speaker, “Pediatric Sjogren Disease” - Birmingham area Sjogren Support Group, National Sjogren Foundation, Birmingham, AL, March 2012
22. Speaker, “Temporomandibular Joint Arthritis (TMJ) in Childhood Arthritis” -American Juvenile Arthritis Organization (AJAO) National Conference, St. Louis, MO, July 2012
23. Speaker, Arthritis Foundation, JIA Sunday, Montgomery, AL, October 2012
24. Founder & Board Member, Rheum4yAL (2013-present)
25. Interviewee, “Prescribing patterns in sJIA”, Alka Bhatt, Rutgers University pharmacy student, 2015



26. Speaker, “College and Beyond – Many Good Options, Some Much Less Expensive than Others”, Birmingham Math Academy, 2015
27. Non-paid consultant to book author, Christine Schwab (<http://www.christineschwab.com/cswp/>), for a book on juvenile arthritis, 2016
28. Speaker, “Systemic Juvenile Idiopathic Arthritis and Autoinflammation – We’ve Come a Long Way, Baby” - Juvenile Arthritis National Conference, Philadelphia, PA, 2016
29. Medical Advisor for *Kids Get Arthritis, Too*, a publication of the Arthritis Foundation, 2016
30. Speaker, on college application process, Birmingham Math Academy, Birmingham, AL 2017
31. Interviewee, on the topic of “sJIA and MAS”, for MPH degree of UCSF student, Nicole Nielsen-Bowles, 2017
32. Speaker, “Uncork for a Cure” wine dinner to raise funds for juvenile arthritis research, Montgomery, AL, 2019
33. Book endorsement, “Learning About Juvenile Idiopathic Arthritis – Sometimes Kids Get Arthritis”, from Tell Me Town Foundation as part of Tell Me Town Books series, 2019



LAY PRESS:

[Covering the article: Arabshahi, B., Dewitt, E.M., Cahill, A.M., Kaye, R.D., Baskin, K.M., Towbin, R.B., and **Cron, R.Q.** 2005. Utility of corticosteroid injection for temporomandibular joint arthritis in children with juvenile idiopathic arthritis. *Arthritis Rheum.* 52:3563-3569.]

1. Kilgore, C. 2005. Steroid injections effective in early TMJ arthritis. *Rheumatology News* 4:13. <http://download.journals.elsevierhealth.com/pdfs/journals/1541-800/PIIS1541980005708127.pdf>
2. Boggs, W. 2005. Corticosteroid injection effective for temporomandibular arthritis. *Reuters Health Information:* http://www.redorbit.com/news/health/331233/steroid_injection_effective_for_tmj_arthritis/

[Covering the article: Yin, J., Ma, Z., Shivers, D.K., **Cron, R.Q.**, and Finkel, T.H. 2006. Effective gene suppression using small interfering RNA in hard-to-transfect human T cells. *J. Immunol. Methods* 312:1-11.]

1. 2006. Interfering RNA silences genes in "slippery" immune cells. *Newswise:* <http://www.newswise.com/articles/view/520/292/>

[Covering the development of a new Pediatric Rheumatology clinic at the University of Alabama at Birmingham School of Medicine/Children's Hospital of Alabama.]

1. Valesco, A. 2007. Specialists in juvenile arthritis start at Children's. *Birmingham News:* http://blog.al.com/spotnews/2007/09/specialists_in_juvenile_arthri.html
2. Lockridge, D. 2007. Pediatric rheumatology comes to Birmingham. *Birmingham Medical News:* <http://www.birminghammedicalnews.com/news.php?viewStory=1044>
3. Valesco, A. 2009. Center celebrates second birthday, addition of third doctor for children with arthritis. *Birmingham News:* <http://www.al.com/news/birminghamnews/metro.ssf?/base/news/1252570531170670.xml&coll=2#continue>
4. Freeman, L. 2012. Pediatric Rheumatology: Stepping up to the challenge of childhood arthritis. *Birmingham Medical News:* <http://birminghammedicalnews.com/news.php?viewStory=1777>

[Covering the article: Weiss, P.F., Arabshahi, B., Johnson, A., Bilaniuk, L.T., Zarnow, D.M., Cahill, A.M., Feudtner, C., and **Cron, R.Q.** 2008. High prevalence of temporomandibular joint arthritis in children with new-onset juvenile idiopathic arthritis as detected by MRI but not by ultrasound. *Arthritis Rheum.* 58:1189-1196.]

1. Mahoney, D. 2008. Screen early for TMJ in juvenile idiopathic arthritis. *Rheumatology News* 7:12-13. <http://download.journals.elsevierhealth.com/pdfs/journals/1541-9800/PIIS1541980008703612.pdf>
2. Douglas, D. 2008. MRI shows frequent temporomandibular joint involvement in juvenile arthritis. *Reuters Health Information:* http://www.rehabpub.com/news/2008-05-14_01.asp

[Covering the abstract: Shakoory, B., Chatham, W.W., Alarcon, G.S., and **Cron, R.Q.** 2010. Renal dysfunction is associated with increased mortality in adults with macrophage activation syndrome (abstract). *Arthritis Rheum.* 62 (suppl 10):S695.]

1. RSi Reporting from the American College of Rheumatology. Nov. 12, 2010. <http://www.rsinewsrxreportingfrom.com/index.aspx?sel=1&myid=129>

[Covering the article: Nigrovic, P.A., Mannion, M., Zeft, A., Rabinovich, E., van Rossum, M.A.J., Cortis, E., Pardeo, M., Miettunen, P.M., Janow, G., Birmingham, J., Eggebeen, A., Janssen, E., Shulman, A.I., Son, M.B., Hong, S., Jones, K., Ilowite, N.T., **Cron, R.Q.**, and Higgins, G.C. 2011. Anakinra as first-line disease modifying therapy in systemic juvenile idiopathic arthritis: report of 46 patients from an international multicenter series. *Arthritis Rheum.* 63:545-555.]

1. Jancin, B. 2011. Big changes in treatment of systemic JIA. *Rheumatology News* 10:30.
2. Schonfeld, A.R. 2011. Systemic JIA guidelines urged early treatment. *Rheumatology News* 10:8,19. <http://download.journals.elsevierhealth.com/pdfs/journals/1541-9800/PIIS1541980011702368.pdf>

[Covering the article: Beukelman, T., Patkar, N.M., Saag, K.G., Tolleson-Rinehart, S., **Cron, R.Q.**, DeWitt, E.M., Ilowite, N.T., Kimura, Y., Laxer, R.M., Lovell, D.J., Martini, A., Rabinovich, C.E., and Ruperto, N. 2011. 2011 American College of Rheumatology recommendations for the treatment of juvenile idiopathic arthritis: initiation and safety monitoring of therapeutic agents for the treatment of arthritis and systemic features. *Arthritis Care Res.* 63:465-482.]

1. Schonfeld, A.R. 2011. ACR issues recommendations for the treatment of juvenile idiopathic arthritis. *Rheumatology News* 10:1,18-19. <http://download.journals.elsevierhealth.com/pdfs/journals/1541-9800/PIIS1541980011702320.pdf>
2. Schonfeld, A.R. 2011. Systemic JIA guidelines urged early treatment. *Rheumatology News* 10:8,19. <http://download.journals.elsevierhealth.com/pdfs/journals/1541-9800/PIIS1541980011702368.pdf>
3. Walsh, N. 2011. New JIA treatment recommendations published. *Medpage Today*: <http://www.medpagetoday.com/Rheumatology/Arthritis/25662>
4. Hollimon, K. 2011. New guidelines for rheumatologists who treat JIA – evidence and consensus-based recommendations reflects current knowledge about initiation of therapy. *The Rheumatologist* 4:60-62. http://www.the-rheumatologist.org/details/article/1052245/New_Guidance_for_Rheumatologists_who_Treat_JIA.html
5. Kelly, J. 2011. First ACR advice for juvenile idiopathic arthritis treatment. *Medscape News*. <http://www.medscape.com/viewarticle/740148>

6. Eustice, C. 2011. ACR recommendations for the treatment of juvenile idiopathic arthritis. About.com. <http://arthritis.about.com/b/2011/04/24/acr-recommendations-for-the-treatment-of-juvenile-idiopathic-arthritis.htm>
7. Walter, T. Formulary.
8. Mehcatic, E. 2011. Is using two biologics in sJIA worth the risk? *Rheumatology News* 10:1,32. <http://download.journals.elsevierhealth.com/pdfs/journals/1541-9800/PIIS1541980011706342.pdf>

[Covering the article: Miettunen, P.M., Narendran, A., Jayanthan, A., Behrens, E.M., and **Cron, R.Q.** 2011. Successful treatment of severe paediatric rheumatic disease-associated macrophage activation syndrome with interleukin-1 inhibition following conventional immunosuppressive therapy: case series with 12 patients [letter]. *Rheumatol.* 50:417-419.]

1. Schonfeld, A.R. 2011. Systemic JIA guidelines urged early treatment. *Rheumatology News* 10:8,19. <http://download.journals.elsevierhealth.com/pdfs/journals/1541-9800/PIIS1541980011702368.pdf>

[Covering the article: Record, J.L., Beukelman, T., and **Cron, R.Q.** 2011. Combination therapy of abatacept and anakinra in children with refractory systemic juvenile idiopathic arthritis: a retrospective case series [letter]. *J. Rheumatol.* 38:179-181.]

1. Mehcatic, E. 2011. Is using two biologics in sJIA worth the risk? *Rheumatology News* 10:1,32. <http://download.journals.elsevierhealth.com/pdfs/journals/1541-9800/PIIS1541980011706342.pdf>

[Covering the participation in the American College of Rheumatology/European League Against Rheumatism Exchange Program and referencing the article: **Cron, R.Q.**, and Schulze-Koops, H. 2011. 1.5 decades later: bearing fruits from the ACR/EULAR exchange program. *Pediatr. Rheumatol. Online J.* 9:14.]

1. Beyer, C., Basu, N., and Scherer H.U. 2013. Speak Out Rheum: ACR/EULAR Exchange Program Expands Rheumatology Networks. *The Rheumatologist* 7:10. http://www.the-rheumatologist.org/details/article/4567591/Speak_Out_Rheum_ACREULAR_Exchange_Program_Expands_Rheumatology_Networks.html

[Covering the article: Tambralli, A., Beukelman, T., Weiser, P., Atkinson, T.P., **Cron, R.Q.***, and Stoll, M.L. 2013. High doses of infliximab in the management of juvenile idiopathic arthritis. *J. Rheumatol.* 40:1749-1755. (* - corresponding author)]

1. Thiel, B. 2013. High-dose infliximab safely, effectively treated JIA patients. <http://www.healio.com/rheumatology/juvenile-arthritis/news/online/%7B7E88D32E-3D14-4991-A0EE-9E2412D3D17F%7D/High-dose-infliximab-safely-effectively-treated-JIA-patients>

2. Cron: High-dose Infliximab an Option for JIA. September, 2013. *Synopsis*, the E-newsletter for UAB. Physicians.

[Covering the article: Stoll, M.L., Kumar, R., Morrow, C.D., Lefkowitz, E.J., Cui, X., Genin, A., **Cron, R.Q.**, and Elson, C.O. 2014. Altered microbiota triggering abnormal humoral immune responses to commensal organisms in juvenile spondyloarthritis. *Arthritis Res. Ther.* 16:486-495.]

1. Walsh, N., and Swift, D. 2014. The Gut and Arthritis: The Evidence Grows - Microbiome implicated in ankylosing spondylitis and pediatric enthesitis-related arthritis. *MEDPAGE TODAY, RHEUMATOLOGY (Top 5 Stories of December)*, 12.11.2014.
<http://www.medpagetoday.com/Rheumatology/Arthritis/49074>

[Covering the article: Behrens, E.M., and **Cron, R.Q.** 2015. Kill or be killed. *J. Immunol.* 194:5041-5043.]

1. Podcast: <http://www.jimmunol.org/site/podcast/POI2015Jun01.mp3>

[Covering the temporomandibular joint services and research conducted at Children's of Alabama.]

1. Cron leads worldwide efforts to unlock the puzzle of TMJ arthritis. 2015. *Inside Pediatrics – A Publication of Children's of Alabama* 1:8-9. [Photo of Dr. Cron on the cover of the inaugural issue]

[Covering the article: Schulert, G.S., Zhang, M., Fall, N., Husami, A., Kissell, D., Hanosh, A., Zhang, K., Davis, K., Jentzen, J.M., Napolitano, L., Siddiqui, J., Smith, L.B., Harms, P.W., Grom, A.A., and **Cron, R.Q.** 2015. Whole exome sequencing reveals mutations in hemophagocytic lymphohistiocytosis and macrophage activation syndrome linked genes among fatal cases of H1N1 influenza. *J. Infect. Dis.* 213:1180-1188.] [Cover of journal issue image derived from manuscript figure]

1. Miller, N., and Shepard, B. 2015. Study finds genetic risk factor can lead to hyperinflammatory disorder, death after viral infection. UAB News, Innovation & Development, Nov. 24.
<http://www.uab.edu/news/innovation/item/6770-study-finds-genetic-risk-factor-can-lead-to-hyperinflammatory-disorder-death-after-viral-infection>
2. Benz, M. 2015. Genetic links to fatal inflammatory flu reaction discovered. MedicalResearch.com, Nov. 25.
<http://medicalresearch.com/genetic-research/genetic-links-to-fatal-inflammatory-flu-reaction-discovered/19628/>
3. Featured in the UAB School of Medicine Annual Report 2015/2016.
<https://issuu.com/uabsom/docs/annualreport2015-16>

[Covering the article: Shakoory, B., Carcillo, J.A., Chatham, W.W., Amdur, R.L., Zhao, H., Dinarello, C.A., **Cron, R.Q.**, and Opal, S.M. 2016. Interleukin-1 receptor blockade is associated with reduced mortality in sepsis patients with features of macrophage activation syndrome: re-analysis of a prior Phase III trial. *Crit. Care Med.*, *in press.*] [listed as a Feature article and as an Editor's Choice article; featured in the editorial: Johnson, D.W., and Kalil, A.C. 2016. Is interleukin-1 receptor blockade ready for prime time in patients with severe sepsis and macrophage activation syndrome? *Crit. Care Med.* 44:443-444]

1. Listed on PANLAR President's website:
http://paper.li/carvicab/1325594128?edition_id=14b7fa20-be0a-11e5-96f4-002590a5ba2d#!tag-rheum
2. Hong Kong Society of Critical Care Medicine, *Critical Care Medicine* highlights (Feb. 2, 2016).
http://www.hkscm.org/index.php?option=com_content&view=article&id=4957:2016-feb-interleukin-1-receptor-blockade-is-associated-with-reduced-mortality-in-sepsis-patients-with-features-of-macrophage-activation-syndrome-reanalysis-of-a-prior-phase-iii-trial&catid=216:critical-care-medicine&Itemid=9994&lang=en

[Covering the article: Ravelli, A., Minoia, F., Davi, S., Horne, A., Bovis, F., Pistorio, A., Arico, M., Avcin, T., Behrens, E.M., De Benedetti, F., Filipovic, L., Grom, A.A., Henter, J.-I., Ilowite, N.T., Jordan, M.B., Khubchandani, R., Ktiah, T., Lehmsberg, K., Lovell, D.J., Miettunen, P., Nichols, K.E., Ozen, S., Pachlopnik-Schmid, J., Ramanan, A.V., Russo, R., Schneider, R., Sterba, G., Uziel, Y., Wallace, C., Wouters, C., Wulffraat, N., Demirkaya, E., Brunner, H.I., Martini, A., Ruperto, N., and **Cron, R.Q.** on behalf of the Pediatric Rheumatology International Trials Organization, the Childhood Arthritis & Rheumatology Research Alliance, the Pediatric Rheumatology Collaborative Study Group, and the Histiocyte Society. 2016. 2016 classification criteria for macrophage activation syndrome complicating systemic juvenile idiopathic arthritis. *Arthritis Rheumatol.* 68:566-576.]

1. ACR eNewsRheum. The ACR Publishes Classification Criteria for MAS in sJIA Patients.
<http://dmmsclick.wiley.com/click.asp?p=11101578&m=96106&u=2497197>

[Covering the article: Stoll, M.L., Kumar, R., Lefkowitz, E., **Cron, R.Q.**, Morrow, C., and Barnes, S. 2016. Fecal metabolomics in pediatric spondyloarthritis implicate decreased metabolic diversity and altered tryptophan metabolism as pathogenic factors. *Genes Immun.* 17:400-405.]

1. Pullen, L.C. 2016. Fetal Metabolomics Implicate Tryptophan Pathway in Pediatric Spondyloarthritis. *The Rheumatologist* 12.12.2016.
<http://www.the-rheumatologist.org/article/fecal-metabolomics-implicate-tryptophan-pathway-pediatric-spondyloarthritis/>

[Covering the March for Science in Birmingham, Alabama, April 22, 2017. Dr. Randy Cron, a pediatric rheumatologist at UAB, attended the March for Science in downtown Birmingham, Alabama on April 22, 2017, and spoke in an interview about the importance of funding for scientific research (interviewed by Tom Gordon).]

1. <https://www.youtube.com/watch?v=8HtYBhvuu0I>
2. Gordon, T. 2017. March for Science links Birmingham to National Movement. *Weld, Birmingham's Newspaper*.
<http://weldbham.com/blog/2017/04/22/march-science-links-birmingham-national-movement/>

[Covering the article: Vinod, S.S., Reed, A.B., Maxwell, J., **Cron, R.Q.**, and Stoll, M.L. 2018. Pediatric rheumatology infusion center: report on therapeutic protocols and infusions given over 4 years with focus on adverse events over 1 year. *Pediatr. Rheumatol. Online J.* 16:16.]

1. Laday, J. 2018. Less than 2% of infusions for pediatric rheumatic diseases result in adverse events. *Healio Rheumatol.* April 11 (Top Story).
<https://www.healio.com/rheumatology/juvenile-arthritis/news/online/%7B1b2f0093-4e92-4d13-9805-0e97652f276d%7D/less-than-2-of-infusions-for-pediatric-rheumatic-diseases-result-in-adverse-events>

[Covering the 2019 American College of Rheumatology Annual Scientific Meeting (Atlanta, GA), symposium on “Therapeutic Approaches to Macrophage Activation Syndrome”]

1. Gebhart, F. 2019. New approaches to treating macrophage activation syndrome. ACR publication.

[Covering the first ever textbook devoted to cytokine storm syndromes: Cytokine Storm Syndrome (1st edition). **R.Q. Cron**, and E.M. Behrens, Eds., Springer, Cham, Switzerland, pp. i-xxi, 1-617, 2019.]

1. <https://www.uab.edu/medicine/peds/news-events/department-news/2163-dr-cron-co-editor-of-first-ever-textbook-devoted-to-cytokine-storm-syndrome>
2. <https://www.springer.com/gp/book/9783030220938#aboutBook>
3. Windsor, M. 2019. Here's a playbook for stopping deadly cytokine storm syndrome. <https://www.uab.edu/reporter/know-more/publications/item/8909-here-s-a-playbook-for-stopping-deadly-cytokine-storm-syndrome>
4. Anderton, K. 2019. New textbook on mysterious and deadly cytokine storm syndrome. News Medical Life Sciences. <https://www.news-medical.net/news/20191111/New-textbook-on-mysterious-and-deadly-cytokine-storm-syndrome.aspx>

[Covering the article: Eloseily, E.M., Weiser, P., Crayne, C.B., Haines, H.L., Mannion, M.L., Stoll, M.L., Beukelman, T., Atkinson, T.P., and **Cron, R.Q.** 2020. Benefit of anakinra in treating pediatric secondary hemophagocytic lymphohistiocytosis. *Arthritis Rheumatol.* 72:326-334.]

1. Smith, J. 2019. Anakinra for pediatric sHLH/MAS: does one size fit all? *Rheumatology News* 18:5.
<https://www.mdedge.com/rheumatology/article/208743/pediatrics/anakinra-treatment-pediatric-cytokine-storms-does-one-size?channel=39313>
2. Walsh, N. 2019. Anakinra shows benefit in cytokine storm – treatment success seen only with underlying autoimmune disease, not malignancy. MEDPAGE TODAY.
<https://www.medpagetoday.com/rheumatology/generalrheumatology/82198>
3. Anakinra treatment for pediatric ‘cytokine storms’. MDedge/Rheumatology.
<https://www.mdedge.com/rheumatology/clinical-edge/summary/all/anakinra-treatment-pediatric-cytokine-storms>
4. Pullen, L.C. 2020. Anakinra for the Treatment of Pediatric Secondary Hemophagocytic Lymphohistiocytosis. *Arthritis Rheumatol.* 72:A13.
5. Laday, J. 2020. Anakinra effective in pediatric secondary hemophagocytic lymphohistiocytosis. *Healio Rheumatol.* March 11.
<https://www.healio.com/rheumatology/juvenile-arthritis/news/online/%7B014db649-1e6d-4c0c-a764-08ef16cb7981%7D/anakinra-effective-in-pediatric-secondary-hemophagocytic-lymphohistiocytosis>

[Covering the UAB News report. Hansen, J. COVID-19: do not forget the host in treating this disease. March 16, 2020. <https://www.uab.edu/news/research/item/11176-covid-19-do-not-forget-the-host-in-treating-this-disease>]

1. Windsor, M. 2020. Covid-19: do not forget the host in treating this disease.
<https://www.uab.edu/news/research/item/11176-covid-19-do-not-forget-the-host-in-treating-this-disease>
2. Society for Pediatric Resarch Member News. March 24, 2020. Q&A with SPR member Dr. Randy Cron on cytokine storm syndrome (electronic SPR NEWS).
3. Mandavilli, A. April 1, 2020. The coronavirus patients betrayed by their own immune systems. *The New York Times*. 4/2/2020, page A4, the Times' daily "Tracking an Outbreak". Also, covered by Seattle Times.
<https://www.nytimes.com/2020/04/01/health/the-coronavirus-patients-betrayed-by-their-own-immune-systems.html>
4. AMA Morning Rounds. Bulk daily email. April 2, 2020. Some patients with coronavirus develop “cytokine storms” caused by the immune system continuing to react after the threat of the virus has passed.
5. WUSA Channel 9 (CBS in Washington DC) debunking concerns regarding elderberry juice and risk of coronavirus vulnerability.
<https://www.wusa9.com/article/news/verify/verify-does-elderberry-make-you-more-vulnerable-to-coronavirus/65-93540852-3cd2-4d4f-9ea1-ff3a7d780ec0>
6. Rabin, R.C. 2020. Can old vaccine stop the new coronavirus? *The New York Times*, 4/3/2020. <https://www.nytimes.com/2020/04/03/health/coronavirus-bcg-vaccine.html?referringSource=articleShare>
7. Brumfiel, G. 2020. Why some COVID-19 patients crash: the body’s immune system might be to blame. Natioanal Public Radio, 4/7/2020.

- <https://www.npr.org/sections/health-shots/2020/04/07/828091467/why-some-covid-19-patients-crash-the-bodys-immune-system-might-be-to-blame>
8. Zhang, S. 2020. The Best Hopes for a Coronavirus Drug. If there is a way to stop COVID-19, it will be by blocking its proteins from hijacking, suppressing, and evading humans' cellular machinery. *The Atlantic*. 4/8/2020.
<https://www.theatlantic.com/science/archive/2020/04/what-coronavirus-drug-will-look-like/609661/>
 9. Walker, J., and Hopkins, J.S. 2020. Haywire Immune Response Eyed in Coronavirus Deaths, Treatment. Researchers are looking at treatments to suppress 'cytokine storm', increasingly linked to the most severe Covid-19 cases. *The Wall Street Journal*. 4/9/2020.
https://www.wsj.com/articles/haywire-immune-response-eyed-in-coronavirus-deaths-treatment-11586430001?emailToken=3d547a2efbcc665ab1f7f820b37ad63bnYKR2vskaDQiVNWlIRr787wzxn+PdXjWq31lr+nm4JH/9VLdAIJtjmGbtzdBsBfymoqGNHyS0jDHhqcPRC5T5MPCep1LmwANoEP4KHqe10JI1GbYXFoJc1Eow1nH7md&reflink=article_email_share
 10. Robinson, K. 2020. Q&A: Rheumatologist Dr. Randy Cron on COVID-19 and the cytokine storm. *Rheumatology Network*. 4/9/2020.
<https://www.rheumatologynetwork.com/infectious-disease/qa-rheumatologist-dr-randy-cron-covid-19-and-cytokine-storm>
 11. Volansky, R. 2020. *Healio Rheumatology*. 4/14/2020. 2020;5:46-48. Weathering the Cytokine Storm in COVID-19: Telltale Signs, Therapeutic Hope on the Horizon.
<https://www.healio.com/rheumatology/practice-management/news/online/%7Ba124b49f-393c-4d30-a9b7-6960cf3f4086%7D/weathering-the-cytokine-storm-in-covid-19-telltale-signs-therapeutic-hope-on-the-horizon>
 12. Shields, J. 2020. *howstuffworks*. 4/15/2020. Cytokine Storms: When Your Immune System Defends You to Death. <https://health.howstuffworks.com/human-body/systems/immune/cytokine-storm.htm>
 13. Estes, C. 2020. *Forbes*. 4/16/2020. What Is The Cytokine Storm And Why Is It So Deadly For Coronavirus Patients?
<https://www.forbes.com/sites/claryestes/2020/04/16/what-is-the-cytokine-storm-and-why-is-it-so-deadly-for-covid-19-patients/#7a88e21e460f>
 14. Radcliffe, S. 2020. *healthline*. 4/18/2020. Experimental Drugs May Help Keep COVID-19 Patients Off Ventilators. <https://www.healthline.com/health-news/new-drug-may-help-keep-covid-19-patients-off-ventilators>
 15. Hamblin, J. 2020. *The Atlantic*. 4/21/2020. Why Some People Get Sicker Than Others – COVID-19 is proving to be a disease of the immune system. This could, in theory, be controlled. <https://www.theatlantic.com/health/archive/2020/04/coronavirus-immune-response/610228/>
 16. Williams, S., 2020. *The Scientist*. 4/21/2020. Could Curbing Runaway Immune Responses Treat COVID-19? Drugs targeting patients' immune systems, rather than the virus, itself, could be key to recovery from severe cases of the disease, some researchers suggest.

- <https://www.the-scientist.com/news-opinion/could-curbing-runaway-immune-responses-treat-covid-19--67450>
17. Pawlowsky, A. 2020. *TODAY*. 4/17/2020. What is a cytokine storm? Why an ‘immune system gone wild’ harms COVID-19 patients – The phenomenon may be a factor in why younger, previously healthy people get so sick from coronavirus.
<https://www.today.com/health/what-cytokine-storm-exaggerated-immune-system-response-coronavirus-covid-19-t179072>
 18. Norton, A., 2020. *HealthyDay News*. 4/22/2020. Could an Ancient Drug Help Fight Severe COVID-19? <https://www.medicinenet.com/script/main/art.asp?articlekey=230649>
 19. Brody, B. 2020. *CreakyJoints*. 4/23/2020. What Is a ‘Cytokine Storm,’ Exactly? What Autoimmune Disease Patients Need to Know. Why this immune system activation happens to some people with autoimmune conditions – and why cytokine storms are involved in killing so many COVID-19 patients.
<https://creakyjoints.org/symptoms/cytokine-storm-covid-19-autoimmune-disease/>
 20. Foster, V. 2020. *Cancer Therapy Advisor*. 5/11/2020. Tocilizumab Shows Benefit in a Patient With COVID-19 and Multiple Myeloma.
<https://www.cancertherapyadvisor.com/home/cancer-topics/multiple-myeloma/covid19-coronavirus-multiple-myeloma-tocilizumab-shows-benefit-treatment/>
 21. Dance, A. 2020. *BBC*. 5/7/2020. Cytokine storms: When the body attacks itself.
<https://www.bbc.com/future/article/20200505-cytokine-storms-when-the-body-attacks-itself>
 22. Dance, A. 2020. *Knowable Magazine*. 4/10/2020. What is a cytokine storm?
<https://www.knowablemagazine.org/article/health-disease/2020/what-cytokine-storm>
 23. Bendix, A. 2020. *Business Insider*. 5/14/2020. ‘Cytokine storms’ that cause the body to attack itself might be a key factor in deadly coronavirus cases.
<https://www.businessinsider.com/cytokine-storm-severe-coronavirus-case-death-2020-5>
Covered by *yahoo! news*. 5/21/2020. ‘Cytokine storms’ that cause the body to attack itself might explain why some coronavirus infections turn deadly.
<https://news.yahoo.com/cytokine-storms-cause-body-attack-185900776.html>
 24. Stott, R. 2020. *Healio Rheumatology*. 6/1/2020. Features of critically ill patients infected with COVID-19 suggest the presence of a cytokine storm syndrome resulting in adult respiratory distress syndrome and multi-organ failure.
 25. Rogers, K. 2020. *FiveThirtyEight*. 5/28/2020. COVID-19 Is A Respiratory Disease. So Why Is It Affecting Patients’ Hearts and Brains.
<https://fivethirtyeight.com/features/covid-19-is-a-respiratory-disease-so-why-is-it-affecting-patients-hearts-and-brains/>
 26. Calabrese, L.H. 2020. *Healio Rheumatology*. 6/17/2020. How did rheumatology wind up in the cytokine storm? https://www.healio.com/news/rheumatology/20200609/how-did-rheumatology-wind-up-in-the-cytokine-storm?utm_source=selligent&utm_medium=email&utm_campaign=news&m_bt=305974350070
 27. Volansky, R. 2020. *Healio Rheumatology*. June 2020. Shelter from the cytokine storm: The changing role for rheumatology in COVID-19.

- <https://www.healio.com/news/rheumatology/20200609/shelter-from-the-cytokine-storm-the-changing-role-for-rheumatology-in-covid19>
28. Lewis, T. 2020. *Scientific American*. June 17, 2020. Common Steroid Could Be Cheap and Effective COVID-19 Treatment. The results of a trial that found dexamethasone reduced the risk of death in extremely ill coronavirus patients have yet to be published, but some doctors are already embracing them.
<https://www.scientificamerican.com/article/common-steroid-could-be-cheap-and-effective-covid-19-treatment/>
 29. Health day. 2020. *Health24 Infectious Diseases*. July 6, 2020. An ancient drug shows promise against severe Covid-19. A small Greek trial suggest that colchicine, an old gout medicine, may help curb severe Covid-19. <https://www.health24.com/Medical/Infectious-diseases/Coronavirus/an-ancient-drug-shows-promise-against-severe-covid-19-20200706-5>
 30. Norton, A. 2020. *WebMD*. July 23, 2020. Several Steroids May Also Help Battle COVID-19. <https://www.webmd.com/lung/news/20200723/steroids-other-than-dexamethasone-may-also-help-battle-covid-19#1>
 31. Velasquez-Monoff, M. 2020. *New York Times Magazine*. Augst 11, 2020. How Covid Sends Some Bodies to War with Themselves – Many Covid-19 pateints may be dying from their immune response to the virus, not the virus itself. Can science figure out how to save them? <https://www.nytimes.com/2020/08/11/magazine/covid-cytokine-storms.html>
 32. *DNYUZ*. August 11, 2020. How Covid Sends Some Bodies to War with Themselves. <https://dnyuz.com/2020/08/11/how-covid-sends-some-bodies-to-war-with-themselves/>
 33. Furlow, B. 2020. *Lancet Rheumatol*. Sept. 9, 2020. COVACTA trial raises questions about tocilizumab’s benefit in COVID-19.
[https://doi.org/10.1016/S2665-9913\(20\)30313-1](https://doi.org/10.1016/S2665-9913(20)30313-1)
 34. Alicea, J. 2020. *HCP Live*. Sept. 12, 2020. Randall Cron, MD, PhD: Cytokine Storm Syndrome and COVID-19. <https://www.hcplive.com/view/cron-cytokine-storm-syndrome-covid19>
 35. Volansky, R. 2020. *Healio Rheumatology*. Sept. 15, 2020. Focus on Cytokine Storm Syndrome may be Silver Lining in COVID-19.
<https://www.healio.com/news/rheumatology/20200914/focus-on-cytokine-storm-syndrome-may-be-silver-lining-in-covid19>
 - 36.

[Covering the grants, “Early Identification and Treatment of Cytokine Storm Syndrome in Covid-19” [NCT04362111] and “Glucocorticoid treatment of COVID-19 cytokine storm syndrome.”- funded by UAB School of Medicine philanthropic gifts and the UAB Hugh Kaul Precision Medicine Institute.]

1. Windsor, M. 2020. *UAB Reporter*. 4/29/2020. Cytokine storm treatment for coronavirus patients is focus of first-in-US study. <https://www.uab.edu/reporter/research/discoveries-innovations/item/9105-cytokine-storm-treatment-for-coronavirus-patients-is-focus-of-first-in-us-study>

2. Drs. Cron and Oates awarded funding for high-impact COVID-19 research. 2020. <https://www.uab.edu/medicine/peds/news-events/department-news/2334-drs-cron-and-oates-awarded-funding-for-high-impact-covid-19-research>
3. Drs. Cron and Oates awarded funding for high-impact COVID-19 research. 2020. <https://www.uab.edu/news/research/item/11470-uab-launches-second-round-of-urgent-high-impact-covid-19-research>
4. Hansen, J. 2020. *UAB News*. 8/5/2020. UAB launches second round of urgent, high impact COVID-19 research. <https://www.uab.edu/news/research/item/11470-uab-launches-second-round-of-urgent-high-impact-covid-19-research>
5. Windsor, M. 2020. *UAB Reporter*. 8/31/2020. Studying an alternative steroid treatment to calm cytokine storms in COVID-19. <https://www.uab.edu/reporter/research/discoveries-innovations/item/9233-studying-an-alternative-steroid-treatment-to-calm-cytokine-storms-in-covid-19>
- 6.

[Published RheumNow Blog containing advice numerous leaders in rheumatology, including Dr. Randy Cron, (Children’s Hospital of Alabama/University of Alabama at Birmingham.)

1. Cush, J. 2020. *RheumNow*. 8/3/2020. More Rheumatology Fellow Advice from the Mentors. <https://rheumnow.com/news/more-rheumatology-fellow-advice-mentors>

[Covering the June 18, 2020 NIH/FDA Immunology and Cytokine Interest Groups symposium. R.Q. Cron speaker: “Rationale for Effectiveness of Cytokines in Early Disease, and Cytokine Inhibition in Late Covid-19”] <https://nci.rev.vbrick.com/sharevideo/03106730-66cc-47ba-870b-f6e6274a998a>

1. Buszko, M., Park, J.-H., Verthelyi, D., Sen, R., Young, H.A., and Rosenberg, A.S. 2020. The dynamic change in cytokine responses in COVID-19: a snapshot of the current state of knowledge. *Nat. Immunol.*, *in press*.