

CURRICULUM VITAE

Date: January 26, 2016



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

RANK/TITLE: Professor/Director, Division of Pediatric Rheumatology 2007
Director, Pediatric Rheumatology Fellowship Program 2009

Department: Pediatrics

Business Address: Children's of Alabama (CoA)
Department of Pediatrics, Division of Rheumatology
1601 4th Avenue South, Suite 210
Birmingham, AL 35233
Phone: (205) 996-9191

Secondary Appointment Senior Scientist 2013
UAB Comprehensive Cardiovascular Center (CCVC)

Secondary Appointment Professor 2009
Department: Medicine Division of Clinical Immunology and Rheumatology

Secondary Appointment Scientist 2008
UAB Center for AIDS Research (CFAR)

Secondary Appointment Faculty 2008
UAB Graduate Biomedical Sciences Program in Immunology

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

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, medac PHARMA, Dallas, TX 2016

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

Dec. 1998 – Oct. 1999 Clinical Instructor, Department of Pediatrics, Stanford University School of Medicine

AWARDS/HONORS:

- 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
- 1986 Graduate Scholarship, The International Fraternity of Phi Gamma Delta
- 1986 Research Scholar, Howard Hughes Medical Institute/National Institutes of Health
- 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
- 1996 Postdoctoral Research Fellowship, Howard Hughes Medical Institute
- 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
- 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 Dorrough 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
- 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
- 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 Rud Polhill/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

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, American Association of Immunologists Annual Scientific Meeting (2016)
- American Board of Pediatrics

- General Pediatrics Board, question writer (1995-2006)
 - Pediatric Rheumatology Board, question writer (1999-2006)
- 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)
- American Medical Association
American Pediatric Society (APS) (2015-present)

- Leadership Mentoring program (2015-present)
- AMIGO (ACR/CARRA Mentoring Interest Group), Mentor (2011-present)
 - Mentor to Dr. Grant Schulert (University of Cincinnati) (2013-present)
 - Mentor to Dr. Catherine Biggs (Harvard University) (2014-present)
- Arthritis Foundation
 - 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)
- 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)
- Childhood Myositis Heterogeneity Collaborative Study Group (2006-present)
- EuroTMJoint Network (2011-present)
 - Intraarticular Corticosteroid Treatment Subcommittee (2011-present)
 - Expert analyst, Clinical Examination workgroup (2015)
- 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)
- OMERACT – TMJ MRI reading in juvenile idiopathic arthritis (2012-present)
- Pediatric Rheumatology Collaborative Study Group (2004-present)
 - Certified joint assessor (2013-present)
- Rheum4yAL
 - Founder and board member (2013-present)
- Society for Pediatric Research (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)
- 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

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

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
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, SISCAR (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, 2008-2011
24. Interviewer, 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-present
37. UAB Immunology, Autoimmunity, Transplantation Steering Committee, Adaptive Immunology Work Group, 2011-present
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. Developer, Development of Anakinra Hospital Use Guidelines, Protocol, and Consent, Children's of Alabama Medication Safety Committee, and Medical Executive Committee, 2013
48. Member, Transition/Maximum Age for Eligibility of Care Task Force Committee, 2013
49. Member, Department of Pediatrics Career Evaluation and Promotions Committee, 2013-present, interim chair, 2014, 2015
50. Member, Search Committee for Chairperson of the Department of Pediatrics at UAB, 2013-2014
51. Member, Pediatrics Workforce Taskforce, 2013
52. Member, MCRC (Rheumatology P60) Executive Committee, 2013-2018
53. Member, Taskforce on Role of CoA in Autism Spectrum Disorders, 2014-present
54. Member, Committee for Faculty Recruitment to Pediatric Gastroenterology Division at UAB, 2014-present
55. Member, Search Committee for Vice Chairman for Office of Faculty Development, Department of Pediatrics, 2014-2015
56. Member, Committee on Endowed Chairs in the Department of Pediatrics, 2014-present
57. Member, Committee for Faculty Recruitment to Pediatric Allergy & Immunology Division at UAB, 2014-present
58. Judge, Research Day Poster Competition, World AIDS Day, UAB CFAR, 2014
59. Member, CCTS Research Commons – Panels Done Quickly (PDQ) for “Type-I Interferons as a Regulator of Immunity and Inflammation”, 2015

60. Member, Research Training Program in Musculoskeletal Diseases Research (RTP) Internal Advisory Committee, 2015-present
61. Grant reviewer, Alabama Drug Discovery Alliance (ADDA), 2015
62. Mentor, UAB Department of Pediatrics, Basic Science facilitator and mentor for junior faculty, 2015-present

(University of Mississippi):

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

EDITORIAL BOARD MEMBERSHIPS:

Arthritis and Rheumatism, Advisory Editor, 2007-2010
Arthritis Care & Research, Editorial Board, 2015-2017
Clinical and Diagnostic Laboratory Immunology, 2002-2005
Clinical and Vaccine Immunology, 2006-2010
Genes and Immunity, 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, Basic Science Editor, 2002-2006

MAJOR RESEARCH INTERESTS:

1. Dysregulation of CD154 in systemic lupus erythematosus.
2. Mutations in cytolytic pathway proteins contributing to macrophage activation syndrome.
3. CD4 T cell host factor regulation of HIV-1 LTR transcriptional activity and latency.
4. Opposing roles of NFAT2 and FOXP3 transcription factors in CD4 T cell effector function.
5. Diagnosis and treatment of temporomandibular joint arthritis in childhood arthritides.
6. Diagnosis and treatment of macrophage activation syndrome in rheumatic disorders.

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, DE, October 2004

(University of Alabama at Birmingham):

15. Lecturer, "Juvenile Connective Tissue Disease - I", for adult Rheumatology Fellow's conference, University of Alabama at Birmingham, Birmingham, AL, December 2007
16. Lecturer, "Juvenile Connective Tissue Disease", for Pediatric Residents' education, Children's Hospital of Alabama, Birmingham, AL, January 2008
17. Lecturer, "JIA, an Update on Classification, Diagnosis, and Treatment", Department of Orthopedics Seminar, Children's Hospital of Alabama, Birmingham, AL, January 2008
18. Lecturer, "Juvenile Connective Tissue Disease - II", for adult Rheumatology Fellow's conference, University of Alabama at Birmingham, Birmingham, AL, May 2008
19. Lecturer, "Macrophage Activation Syndrome", University of Alabama at Birmingham School of Medicine, Allergy/Immunology Fellow's Conference, October 2008
20. Lecturer, "Juvenile Idiopathic Arthritis: An Update on Classification and Therapy", Rheumatology CME course, Huntsville, AL, February 2009
21. Lecturer, "Pediatric Rheumatology Oddities and Rarities", for Pediatric Residents' education, Children's Hospital of Alabama, Birmingham, AL, February 2009
22. 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
23. Lecturer, "Be Afraid, Be Very Afraid of Macrophage Activation Syndrome", UAB Medicine, Pulmonary/Critical Care conference, April 2009
24. Lecturer, "Juvenile Connective Tissue Disease", for senior Pediatric Residents' boards review, Children's Hospital of Alabama, Birmingham, AL, May 2009

25. Lecturer, “Juvenile Idiopathic Arthritis”, for adult Rheumatology Fellow’s conference, University of Alabama at Birmingham, Birmingham, AL, August 2009
26. 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
27. Lecturer, “JIA, an Update on Classification, Diagnosis, and Treatment”, for adult Rheumatology Fellow’s conference, University of Alabama at Birmingham, Birmingham, AL, August 2010
28. Lecturer, “Juvenile Connective Tissue Disease”, for senior Pediatric Residents’ boards review, Children’s Hospital of Alabama, Birmingham, AL, December 2010
29. 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
30. 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
31. 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

(University of Miami - Visiting Professorship):

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

(Albany Medical College - Visiting Professorship):

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

UNIVERSITY COURSES:

(University of Pennsylvania):

39. Lecturer, Immunology 999/599, Immunology Faculty Research Seminar, University of Pennsylvania Medical School, 2000-2006
40. Founder and course director, CHOP Pediatric Rheumatology Grand Rounds (CME accredited), 2001-2007
41. Co-director, Immunology 599, Fall 2001, 2002 and Spring 2002, 2003

42. Faculty Mentor, Immunology 605, Current Topics in Molecular and Cellular Immunology, Spring 2001 (Marina Kremyanskaya)
43. Lecturer, Immunology 605, March 2002
44. Faculty Tutor, Immunology 520, Elective Tutorials in Immunology, Fall 2002 (Emily Rowell)
45. Lecturer, University of Pennsylvania, Biochemistry Seminar Series, September 2002
46. Mentor, Doctor-Patient Relationship course (MD301), Fall 2002, Spring 2004, Fall 2005, Fall 2006
47. Co-director, Immunology 605, Spring 2003
48. Course Director, Immunology 520, Fall 2003, 2004
49. Faculty Mentor, Immunology 605, Spring 2004 (Jodi Buckler)
50. Lecturer, CAMB 542, Topics in Molecular Medicine, University of Pennsylvania MD/PhD program, 2004
51. Lecturer, Immunology 506, Immune Mechanisms, Fall 2004
52. Preceptor, MD305, Introduction to Clinical Medicine, Fall 2004
53. Lecturer, Immunology 508, Immune Responses, Spring 2005, 2006, 2007
54. Lecturer, Chalk Talks, Microbiology, Virology, & Parasitology Program, Fall 2006
55. Lecturer, University of Pennsylvania Medical School "Frontiers in Medicine", Winter 2007

(University of Alabama at Birmingham):

56. Case Presentation, University of Alabama at Birmingham School of Medicine, "Patient Centered Teaching", Medicine/Rheumatology, Spring 2008, Fall 2009
57. 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
58. Lecturer, "Juvenile Idiopathic Arthritis", UAB School of Medicine Musculoskeletal and Skin Module, September 2009, 2010, 2011, 2012, 2013, 2014, 2015
59. Mentor, Integration of Basic Science and Clinical Medicine for 3rd year medical students, 2010-present
60. Lecturer, "Transcription Factors in Autoimmunity and Autoimmune Diseases", Advanced Course in Autoimmunity, Spring 2010
61. Course Director, Pediatric Rheumatology Acting Internship for medical students, 2010-present
62. Participating Faculty member, Pediatric Dentistry Physical Assessment I, Clinical Rotation, Fall 2010-present
63. Evaluator, PROSCE (Pediatric Rheumatology Objective Structured Clinical Examination), Northwestern University, November 2011
64. 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:

65. Mentor for Palav Babaria, Harvard University undergraduate, Summer 2001 (Yale Medical School, Internal Medicine Residency core faculty member at Highland Hospital, Oakland, CA)
66. Mentor for Elizabeth Dejewski (Reetz), LaSalle University undergraduate, 2001-2002 (Family physician in Baltimore, MD)

67. 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)
68. 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)
69. 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)
70. Mentor for Barrett Larussa, Sewanee University of the South undergraduate, Summer 2011 (works at UAB)
71. Mentor for Brian Lefchak, Drexel University (Philadelphia, PA) undergraduate, Summer 2011 (medical student at Drexel University College of Medicine)

GRADUATE STUDENTS:

72. Thesis committee member for immunology graduate student, Mark Ma, 2001-2006
73. Mentor for Leanne Johnson, University of Pennsylvania rotating graduate student, 2002-2003, IMUN 699
74. Mentor for Jennifer Kozak, University of Pennsylvania medical student, 2003 (awarded American College of Rheumatology Research and Education Foundation scholarship)
75. External reviewer for Mark Cotton's thesis proposal, Stellenbosch University, South Africa, 2004
76. 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)
77. Thesis committee member for immunology graduate student, Leanne Johnson, 2005-2007
78. Thesis committee member for immunology graduate student, Eric Allenspach, 2005-2007
79. Mentor for Greta Weiss, University of Pennsylvania rotating graduate student, 2005, IMUN 699
80. Mentor for Nural Orgun, University of Pennsylvania rotating graduate student, 2005, IMUN 699
81. Mentor for Audrey Daggan, Tufts Medical School medical student, 2006 (awarded Goldie Simon preceptorship from the Lupus Foundation)
82. Mentor for Sarah White, Drexel University College of Medicine medical student, 2006 (awarded APS/SPR Student Research scholarship)
83. Mentor for Ian Ferguson, New Jersey Medical School, 2006 (funded by Stokes Institute)
84. Thesis committee member for CAMB graduate student, Haitao Hu, 2006-2007
85. 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
86. Thesis committee member for immunology graduate student, Sarah Whitley, 2009-2011
87. Mentor for Dr. Christopher Dodd, Children's Hospital of Alabama pediatrics resident, 2009-2010
88. 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)

89. Mentor for Tyler Sharpe, UAB medical student, 2010-2011
90. Mentor for Dr. Melissa Mannion, Children's Hospital of Alabama pediatrics resident, 2010-2011
91. 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)
92. Mentor for Dr. John McLendon, Children's Hospital of Alabama pediatrics resident, 2010-2011
93. Mentor for George Atkinson, UAB medical student, 2010-2011
94. Mentor for Tanya Robinson, University of Alabama at Birmingham, rotating immunology graduate student, 2010
95. Mentor for Caroline Colvin, Children's Hospital of Alabama pediatrics resident, 2010
96. Mentor for Emily Fain, UAB medical student, 2010-2011
97. Mentor for Qing Zhao, University of Alabama at Birmingham, rotating microbiology graduate student, 2010
98. Mentor for Hyungwoo Nam, University of Alabama at Birmingham, rotating immunology graduate student, 2011
99. Mentor for Timothy Rohrbach, University of Alabama at Birmingham, rotating immunology graduate student, 2011
100. Mentor for Stephen M. Johnson, UAB medical student, 2011
101. 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
102. Mentor for Kimberly Westhoven, UAB medical student, 2011
103. Mentor for Susan Wiltrakis, UAB medical student, 2011
104. Mentor for Shane McKinney, UAB medical student, 2011
105. Mentor for Leanne Bowman, UAB pediatric dental student, 2011
106. Mentor for Suwat Teerawattanapong, UAB Oral & Maxillofacial (OMF) Surgery resident, 2011
107. Rina Mina, M.D., M.Sc. (2011-2012), University of Cincinnati Pediatric Rheumatology fellow, studying iontophoresis of corticosteroids to treat TMJ arthritis in JIA
108. Mentor for Ashley Shafferman, UAB medical student, 2012, 2014
109. Mentor for Ajay Tambralli, UAB medical student, 2012, 2014
110. Mentor for Benjamin Abt, DMD, OMF surgery resident, 2012
111. Mentor for Anthony Morlandt, DDS, MD, OMF surgery resident, 2012
112. Qualifying exam committee member for Microbiology thesis student, Victor Du, 2012
113. Mentor for Courtney Crayne, UAB medical student, 2012
114. Mentor for Ashley Conoway, University of Alabama at Birmingham, rotating HHMI immunology graduate student, 2012
115. Mentor for Floyd Dunnavant, UAB radiology resident, 2012
116. Thesis committee member for immunology graduate student, Victor Du, 2012-
117. Mentor for Roxanna Sabghi, UAB medical student, 2013
118. Thesis committee member for immunology graduate student, Sara Stone, 2013-
119. Mentor for Sulaiman Al-Ruwaily, DDS, MD, OMF surgery fellow, 2013
120. Mentor for Saji Azerf, UAB medical student, 2014
121. Mentor for Rachel Harvey, UAB dental student, 2014
122. Mentor for Leslie Avant, UAB medical student, 2015
123. Mentor for Catherine Poholek, UAB medical student, 2015

- 124. Thesis committee member for immunology graduate student, Molly Bolland, 2015-
- 125. Mentor for Surabhi Vinod, UAB medical student, 2016

CLINICAL RHEUMATOLOGY FELLOWS:

FORMER FELLOWS (University of Pennsylvania):

- 126. Lisabeth V. Scalzi, M.D. (1999-2002), recipient of a Fellowship Award from the American Heart Association; currently an NIH K23 award-funded faculty member at Pennsylvania State University
- 127. Frida Gudmundsdottir, M.D. (2000), *ad astra*
- 128. Jonathan M. Burnham, M.D. (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
- 129. Esi M. DeWitt, M.D. (2002-2005), recipient of a CHORD Fellowship Award, and an ACR/REF Rheumatology Fellowship Training Award; currently faculty at University of Cincinnati
- 130. 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)
- 131. 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
- 132. Mara Becker, M.D. (2005-2006), fellow at A.I. Dupont Children's Hospital, currently Assistant Professor of Pediatrics at Children's Mercy Hospitals and Clinics (University of Kansas Medical Center), Kansas City, MO
- 133. 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
- 134. Timothy Beukelman, M.D. (2004-2007), Ruth L. Kirschstein National Research Service Award (NRSA)/NIH; Fellows Scholar Travel Award – American College of Rheumatology; Assistant Professor of Pediatrics, University of Alabama, Birmingham
- 135. 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, Assistant Professor of Pediatrics, University of Pennsylvania, Philadelphia, PA

136. 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, Assistant Professor of Pediatrics, University of Texas Southwestern, Dallas, TX
137. Eric Hanson, M.D. (2005-2007), Senior Clinical Fellow, Henry Metzger Scholar, Autoimmunity Branch, Immunoregulation Section, NIAMS/NIH, Bethesda, MD
138. Jay Mehta, M.D. (2006-2007), recipient of an ACR/REF physician scientist development award, Assistant Professor of Pediatrics, Pediatric Rheumatology Fellowship Program Director, Schneider Children's Hospital, Bronx, NY; currently faculty University of Pennsylvania
139. 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

FORMER FELLOWS (University of Alabama at Birmingham):

140. 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
141. 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
142. Will Sasser, M.D. (2010-2011), co-mentor for Legionella trigger vasculitis, Pediatric Pulmonary fellow, University of Alabama at Birmingham
143. Christy Bemrich-Stolz, M.D. (2010-2011), UAB Pediatric Hematology/Oncology fellow, studying heterozygous HLH mutations in secondary MAS
144. Naren Vadlamudi, M.D. (2011-2012), UAB Pediatric Gastroenterology fellow
145. Tracy Jester, M.D. (2012-2013), UAB Pediatric Gastroenterology fellow
146. Melissa Mannion, M.D. (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)

CURRENT FELLOWS (University of Alabama at Birmingham):

147. Grant Schultert, M.D., Ph.D. (2013-), Univ. of Cincinnati Pediatric Rheumatology fellow
148. Lauren "Beth" Shipman, M.D. (2014-), UAB Pediatric Rheumatology fellow, Chu Family Educational Scholarship (2015); UAB CCTS Clinical and Translational Science Training Program award recipient (2016)
149. Catherine, Biggs, M.D. (2014-), Harvard University Pediatric Allergy & Immunology fellow
150. Courtney B. Crayne, M.D. (2016-), UAB Pediatric Rheumatology fellow

LABORATORY POST-DOCTORAL FELLOWS

PAST FELLOWS:

151. Michael Brunner, Ph.D. (2000-2004), currently research teaching specialist, Robert Wood Johnson Medical School/UMDNJ, *ad astra*
152. Shyamala Arunachalam, Ph.D. (2003-2004), currently adjunct laboratory lecturer at University of North Florida
153. Rebecca Shilling, M.D. (2005), University of Chicago Immunology, KO8 Advisory committee
154. Ashley Harms, Ph.D. (2011-2015), UAB Neurosciences, Michael J. Fox Foundation grant to study MHC class II in mouse model of Parkinson disease

CURRENT FELLOWS:

155. 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)

JUNIOR FACULTY ADVISOR/MENTOR:

156. 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
157. 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
158. 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
159. Robert Lowe, M.D., Ph.D. (2011-present), 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

160. 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)
161. Hilary Haines, M.D. (2011-present), Assistant Professor of Pediatrics, Division of Hematology and Oncology, University of Alabama at Birmingham, Birmingham, AL
162. Bitu Shakoory, M.D. (2012-present), Assistant Professor of Medicine, Division of Rheumatology, Temple University, Philadelphia, PA, then George Washington, University, Washington, DC
163. Melissa Mannion, M.D., M.S.P.H. (2014-present), Assistant Professor of Pediatrics, Division of Rheumatology, University of Alabama at Birmingham, UAB SOM
164. Nina Washington, M.D., M.P.H. (2015-present), Assistant Professor, Division of Rheumatology, Department of Pediatrics, University of Mississippi SOM

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

165. Pediatric Rheumatology Clinic, Lucile Salter Packard Children’s Hospital at Stanford, attending physician one day per week, 1998-1999
166. Attending Physician on the Pediatric Rheumatology Service, Lucile Salter Packard Children’s Hospital at Stanford, two months per year, 1998-1999
167. Pediatric Rheumatology Clinic, Children’s Hospital of Philadelphia, attending physician one day per week, 1999-2007
168. Attending Physician on the Pediatric Rheumatology Service, Children’s Hospital of Philadelphia, two months per year, 2000-2007
169. Pediatric Rheumatology Clinic, Children’s Hospital of Alabama, attending physician 1.5 days per week, 2007-present
170. Attending Physician on the Pediatric Rheumatology Service, Children’s Hospital of Alabama, three months per year, 2007-present
171. Collaborative Physician for Pediatric Nurse Practitioner, Annette Reed, CRNP, Children’s Hospital of Alabama, 2007-present
172. Attending Physician, Children’s Rehabilitation Service, Children’s Hospital of Alabama, once monthly, 2008-2011
173. Attending Physician, UAB Pediatric Rheumatology Fellow’s Clinic, 0.5 days per week, seven weeks per year, 2011-present

MAJOR LECTURES AND VISITING PROFESSORSHIPS:

- 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 – Kill or Be Killed” - University of Washington, Adult Rheumatology Grand Rounds, Seattle, WA

- Aug. 2016 “Macrophage Activation Syndrome – The Killer Inside Us” - Juvenile Arthritis National Conference, Philadelphia, PA
- Nov. 2016 “The Best in Translational Science, 2016” - Pediatric Rheumatology Year in Review, American College of Rheumatology National Scientific Meeting, Washington, DC

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

CURRENT:

1. Swedish Orphan Biovitrum, "Treatment of Macrophage Activation Syndrome with Anakinra", Co-Principal Investigator: Cron, 2016-2018, \$300,000
2. 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)
3. 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

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, \$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, \$2,000

MENTORED GRANTS:

CURRENT (mentored grants):

1. 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
2. NIH/NAIMS P60, "Adaptive Immune Responses to Gut Microbiota in Juvenile & Adult Spondyloarthritis", Co-Investigator: Dr. Matthew Stoll, Mentor: Cron, 2013-2018, \$958,330

3. NIH/NIEHS R21, “Interactions between AHR ligands and the intestinal microbiota in murine arthritis”, Principal Investigator: Dr. Matthew Stoll, Mentor: Cron, 2014-2016, \$275,000

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

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
- March 2016 "Allergy, Immunology, and Rheumatology", Abstract Selection Subcommittee, Society for Pediatric Research (SPR), Philadelphia, PA
- May 2016 "Genetic Dysregulation in Immunodeficiencies and Immune-mediated Disease", Co-Moderator, American Association of Immunologists Annual Scientific Meeting, Seattle, WA

**BIBLIOGRAPHY [4,659 Scopus citations]; (h-index: 37; i10-index: 85; scholar.google.com):
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. **[322 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. **[93 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. **[305 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. **[52 citations]**
5. Houlden, B.A., Matis, L.A., **Cron, R.Q.**, Widacki, S.M., Brown, G.D., Pamperio, 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. **[92 citations]**
6. **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. **[135 citations]**
7. 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. **[168 citations]**
8. **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. **[21 citations]**
9. **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. **[19 citations]**
10. 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. **[47 citations]**
11. 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. **[4 citations]**
12. 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. **[33 citations]**
13. 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]**
14. 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. **[77 citations]**

15. **Cron, R.Q.**, Schubert, L.A., Lewis, D.B., and Hughes, C.C.W. 1997. Consistent transient transfection of DNA into non-transformed human and murine lymphocytes. *J. Immunol. Methods* 205:145-150. **[33 citations]**
16. **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. **[43 citations]**
17. **Cron, R.Q.**, Sharma, S., and Sherry, D.D. 1999. Current treatment by United States and Canadian pediatric rheumatologists. *J. Rheumatol.* 26:2036-2038. **[58 citations]**
18. **Cron, R.Q.**, Bartz, S., Clausell, A., Bort, S.J., Klebanoff, S.J., and Lewis, D.B. 2000. NFAT1enhances HIV-1 gene expression in primary human CD4 T cells. *Clin. Immunol.* 94:179-191. **[73 citations]**
19. **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. **[11 citations]**
20. 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. **[21 citations]**
21. 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) **[84 citations]**
22. 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. **[58 citations]**
23. 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. **[31 citations]**
24. 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. **[7 citations]**
25. 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. **[64 citations]**
26. **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]**
27. 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) **[16 citations]**
28. 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. **[48 citations]**

29. 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. **[17 citations]**
30. 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. **[72 citations]**
31. 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]**
32. 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. **[29 citations]**
33. 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. **[129 citations]**
34. 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. **[30 citations]**
35. 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. **[51 citations]**
36. 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. **[5 citations]**
37. 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. **[91 citations]**
38. 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. **[8 citations]**
39. 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. **[13 citations]**
40. 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. **[68 citations]**

41. 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. **[7 citations]**
42. 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. **[33 citations]**
43. 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. **[22 citations]**
44. 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. **[17 citations]**
45. 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. **[9 citations]**
46. Nigrovic, P.A., Mannion, M., Zeff, 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. **[159 citations]**
47. 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. **[234 citations]**
48. 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.] **[65 citations]**
49. 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. **[2 citations]**
50. 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. **[20 citations]**
51. 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. **[27 citations]**
 52. 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.] **[31 citations]**
 53. 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.] **[6 citations]**
 54. 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. **[5 citations]**
 55. 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. **[15 citations]**
 56. 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. **[9 citations]**
 57. 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. **[38 citations]**
 58. Weiser, P., Johnson, S., Lowe, R.M., and **Cron, R.Q.** 2013. Tempomandibular joint arthritis in juvenile dermatomyositis and pediatric mixed connective tissue disease. *Ann. Pediatr. Rheumatol.* 2:91-94.
 59. 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.] **[10 citations]**
 60. 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. **[3 citations]**

61. 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. **[6 citations]**
62. 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. **[10 citations]**
63. 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. **[2 citations]**
64. 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. **[1 citation]**
65. 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.
66. 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. **[2 citations]**
67. 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. **[11 citations]**
68. 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. **[16 citations]**

69. 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. **[9 citations]**
70. 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. **[2 citations]**
71. 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. **[3 citations]**
72. 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.] **[1 citation]**
73. 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.] **[1 citation]**
74. 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., Ktchio, 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.

CASE REPORTS/SERIES AND LETTERS:

75. **Cron, R.Q.**, and Sherry, D.D. 1995. Reiter's syndrome associated with cryptosporidial gastroenteritis. *J. Rheumatol.* 22:1962-1963. **[22 citations]**
76. **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]**
77. Bauman, C., **Cron, R.Q.**, Sherry, D.D., and Francis, J. 1996. Reiter syndrome initially misdiagnosed as Kawasaki disease. *J. Pediatr.* 128:366-369. **[13 citations]**
78. **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.] **[1 citation]**
79. **Cron, R.Q.**, and Gordon, P.V. 1997. Reactive arthritis to *Clostridium difficile* in a child. *West. J. Med.* 166:419-421. **[16 citations]**
80. **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]**
81. **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. **[46 citations]**
82. **Cron, R.Q.**, and Finkel, T.H. 2000. Nabumetone induced pseudoporphyria in childhood [letter]. *J. Rheumatol.* 27:1817-1818. **[8 citations]**
83. 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. **[10 citations]**
84. 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.
85. 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. **[17 citations]**
86. 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. **[7 citations]**
87. 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. **[16 citations]**
88. 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. **[33 citations]**
89. **Cron, R.Q.**, and Sullivan, K.E. 2006. Chronic arthritis without uveitis in velocardiofacial syndrome [letter]. *J. Pediatr.* 149:281. **[2 citations]**
90. 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]**
91. Behrens, E.M., Beukelman, T., and **Cron, R.Q.** 2007. JIA classification criteria: loopholes and diagnosis software [letter]. *J. Rheumatol.* 34:234. **[10 citations]**
92. 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]**

93. 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.
94. **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]**
95. 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. **[24 citations]**
96. 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. **[4 citations]**
97. 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. **[22 citations]**
98. 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. **[58 citations]**
99. 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. **[6 citations]**
100. 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. **[3 citations]**
101. 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. **[8 citations]**
102. 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]**
103. 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.
104. 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]**
105. 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. **[6 citations]**
106. 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.

[12 citations]

107. 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. **[6 citations]**
108. 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. **[5 citations]**
109. 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.
110. 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.

COLLABORATIVE AND STUDY GROUP CONTRIBUTIONS:

111. 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. **[40 citations]**
112. 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. **[13 citations]**
113. 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. **[12 citations]**
114. Wallace, C.A., Giannini, E.H., Huang, B., Irt, 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. **[77 citations]**
115. 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. **[24 citations]**

116. 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. **[9 citations]**
117. Rider, L.G., Shah, M., Mamurova, 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. **[21 citations]**
118. Huber, A.M., Mamurova, 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. **[6 citations]**
119. Rouster-Stevens, K.A., Ardoin, S.P., Cooper, A.M., Becker, M.L., Dragon, 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. **[1 citation]**

PhD THESIS:

120. **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:

121. 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.*, in press. [featured in the editorial: Canna, S.W., and Nigrovic, P.A. 2016. 21st century storm chasers: defining macrophage activation syndrome. *Arthritis Rheumatol.* ???-??-??.]
122. 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.*, *in press*.
123. 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.*, *in press*. [Cover of journal issue image derived from manuscript figure.]
 124. 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. Myositis autoantibodies, clinical features, and environmental factors at illness onset are associated with a chronic disease course in the juvenile idiopathic inflammatory myopathies. *Arthritis Rheumatol.*, *in press*.
 125. 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.*, *accepted*.
 126. 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:*in press*.

MANUSCRIPTS SUBMITTED BUT NOT YET ACCEPTED:

127. Shakoory, B., Sanders, R.D., Chatham, W.W., Reddy, V.B., and **Cron, R.Q.** 2016. CD163 immunostaining of diagnostic bone marrow biopsies in SLE patients reveals high frequency of hemophagocytosis and hemophagocytic syndrome. *Arthritis Res. Ther.*, *submitted*.
128. Mannion, M.L., Azert, S.P, Weiser, P, Beukelman, T., Stoll, M.L., Feig, D.I, and **Cron, R.Q.** 2016. Rituximab treatment for chronic Henoch-Schonlein purpura. *Pediatr. Rheumatol. Online J.*, *submitted*.
129. Stoll, M.L., Barnes, S., Kumar, R., **Cron, R.Q.**, Elson, C.O., Morrow, C., and Lefkowitz, E. 2016. Multi-omics studies in pediatric spondyloarthritis implicate decreased microbial diversity and altered aromatic amino acid metabolism as potential pathogenic factors. *Arthritis Res. Ther.*, *submitted*.
130. Avant, L., Tambralli, A., Jester, T.W., Beukelman, T., Dimmitt, R.A., **Cron, R.Q.**, and Stoll, M.L. 2016. High dose infliximab for pediatric inflammatory bowel disease. *J. Pediatr.*, *submitted*.
131. Stoustrup, P., Twilt, M., Spiegel, L., Kristensen, K.D., Koos, B., Pederson, T.K., Kuseler, A., **Cron, R.Q.**, and Herlin, T. on behalf of the EuroTMjoint network. 2016. Clinical Orofacial Examination in Juvenile Idiopathic Arthritis: International Consensus-based

Recommendations for Monitoring Patients in Clinical Practice and Research Studies.
Arthritis Rheumatol., provisionally accepted.

MANUSCRIPTS IN PREPARATION:

132. 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. 2016. Risk, timing and predictors of disease flare after discontinuation of anti-TNF therapy in children with polyarticular forms of juvenile idiopathic arthritis in clinical inactive disease. *Arthritis Rheumatol.*, in preparation.
133. 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. 2016. Malignancy in pediatric-onset systemic lupus erythematosus. *J. Rheumatol.*, in preparation.
134. Tolend, M., Kellenberger, C.J., **Cron, R.Q.**, and Doria, A.S. 2016. Towards establishing a standardized MR Image acquisition and interpretation protocol for temporomandibular joints (TMJs) in juvenile idiopathic arthritis (JIA): preliminary data. *J. Rheumatol.*, in preparation.
135. Hugle, B., Hotte, J., Wiens, S., Hass, J.-P., Vinod, S.S., Stoll, M.L., **Cron, R.Q.**, Herlin, T., and Twilt, M. 2016. Isolated arthritis of the temporomandibular joint as the initial manifestation of juvenile idiopathic arthritis. *J. Rheumatol.*, in preparation.
136. Stoll, M.L., Guleria, S., Young, D.W., Mannion, M.L., Royal, S.A., **Cron, R.Q.**, and Vaid, Y.N. 2016. Defining the normal appearance of temporomandibular joints by magnetic resonance imaging with contrast: a prospective study in non-inflamed children. *Arthritis Care Res.*, in preparation.
137. Zhang, M., Atkinson, T.P., and **Cron, R.Q.** 2016. 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.
138. Stoll, M.L., Amin, D., Poholek, C., Harvey, R.J., Al-Ruwaily, S., Brandwein-Gensler, M.S., Young, D., Vaid, Y.N., Guleria, S., **Cron, R.Q.**, and Waite, P.D. 2016. Risk factors for heterotopic bone of the temporomandibular joint in children with chronic arthritis treated with intraarticular therapy. *J. Oral Maxillofac. Surg.*, in preparation.
139. Weiser, P., Haines, H.L., Mannion, M.L., Lowe, R.M., Stoll, M.L., Beukelman, T., Atkinson, T.P., and **Cron, R.Q.** 2016. Benefit of anakinra-based immunosuppression for macrophage activation syndrome. *Arthritis. Rheumatol.*, manuscript in preparation.
140. Zhang, M., Robinson, T., Heath, S.L., Lowe, R.M., and **Cron, R.Q.** 2016. Regulatory T cells suppress HIV-1 infection of neighboring CD4 T cells through soluble factors. *PLoS One*, manuscript in preparation.

141. Robinson, T., Zhang, M., Steele, C., Goepfert, P.A., Smythies, L.E., Smith, P.D., Kutsch, O., Lowe, R.M., and **Cron, R.Q.** 2016. Regulatory T cells have differential effects on HIV-1 infection of polarized macrophage populations. *J. Virol.*, *manuscript in preparation*.
142. Zhang, M., Duverger, A. Wolschendorf, F. Wagner, F., **Cron, R.Q.**, and Kutsch, O. 2016. The role of c-maf in HIV-1 latency. *J. Virol.*, *manuscript in preparation*.
143. Stoll, M.L., Grubbs, J.A., McGwin, G., Beukelman, T., Jester, T., Mannion, M.L., **Cron, R.Q.**, and Crain, M.J. 2016. Risk of tuberculosis among Alabama children and adolescents treated with tumor necrosis factor inhibitors. *J. Rheumatol.*, *manuscript in preparation*.
144. Minoia, F., Horne, A., 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.Q.**, and Ravelli, A. 2016. Macrophage activation syndrome and familial hemophagocytic lymphohistiocytosis: is their clinical phenotype really similar? *Arthritis. Rheumatol.*, *manuscript in preparation*.
145. Goh, K.S., Minoia, F., Ravelli, A., **Cron, R.Q.**, and Shakoory, B. 2016. An organ based diagnostic approach to macrophage activation syndrome in children demonstrates impaired reticuloendothelial system clearance. *Arthritis. Rheumatol.*, *manuscript in preparation*.
146. Lowe, R.M., Genin, A., and **Cron, R.Q.** 2016. STAT5 signaling and CD154 expression in lupus CD4 T cells. *Lupus*, *manuscript in preparation*.
147. Mannion, M.L., Weiser, P., Beukelman, T., and **Cron, R.Q.** 2016. Decreased pediatric intensive care unit admissions for lupus patients following arrival of pediatric rheumatologists to a children's hospital [letter]. *J. Rheumatol.*, *in preparation*.
148. **Cron, R.Q.**, Bort, S.J., Cleary, A.M., Genin, A., and Lewis, D.B. 2016. Lack of NFAT1 correlates with decreased cytokine and HIV-1 transcription in neonatal T cells. *Eur. J. Immunol.*, *in preparation*.
149. Arunchalam, S., Lee, P., Stepick-Biek, P., Genin, A., Lewis, D.B., and **Cron, R.Q.** 2016. Generation of T cell-specific NFAT1 conditional transgenic mice. *Transgenics*, *in preparation*.
150. Genin, A., Ma, M., Babria, P., Dejewski, E., Sadeghi, L., Finkel, T. H., and **Cron, R.Q.** 2016. 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*.
151. Zhang, M., Ma, M., Finkel, T.H., and **Cron, R.Q.** 2016. A method for optimizing plasmid ratios for co-transfection in primary CD4 T cells. *Faseb J.*, *in preparation*.
152. Dai, L., Schumacher H.R., Einhorn, E., Chen, L.X., **Cron, R.Q.**, and Pessler, F. 2016. Wide-spread expression of nuclear factor of activated T cells transcription factors in inflammatory synovium. *Arthritis Res.*, *in preparation*.
153. **Cron, R.Q.**, Zoltick, P.W., Genin, A., and Flake, A.W. 2016. Gene therapy for X-linked Hyper-IgM syndrome. *Nat. Med.*, *in preparation*.
154. Zhang, M., Ferguson, I., Ledderman, M., Tebas, P., and **Cron, R.Q.** 2016. Effect of cyclosporin A on NFAT levels in CD4 T cells from HIV-1-infected individuals. *Virology*, *in preparation*.

155. Ferguson, P.J., **Cron, R.Q.**, and Hagood, J.S. 2016. Arthritis associated with adenosine triphosphate-binding cassette-3 (ABCA3) mutations. *J. Rheumatol.*, in preparation.
156. Troxler, B., Wyvill, V., Hagood, J.S., and **Cron, R.Q.** 2016. A case of “fairy ring” pulmonary lesions in pediatric sarcoidosis. *Pediatr. Rheumatol. Online J.*, in preparation.
157. Oakes, J., and **Cron, R.Q.** 2016. Granuloma annulare and erosive arthritis in a single finger joint. *Pediatr. Rheumatol. Online J.*, in preparation.
158. Atkinson, T.P., Kelly, D., and **Cron, R.Q.** 2016. Macrophage activation syndrome following mycoplasma pneumonia in childhood. *Pediatr. Rheumatol. Online J.*, in preparation.
159. Ferguson, P.J., and **Cron, R.Q.** 2016. Systemic juvenile arthritis following Kawasaki disease. *Pediatr. Rheumatol. Online J.*, in preparation.
160. Shakoory, B., Alarcon, G.S, Brown, B.E., **Cron, R.Q.**, Chatham, W.W. 2016. Ferritin, triglyceride, and SLEDAI can provide clues to identification of macrophage activation syndrome in adults with SLE. *Arthritis Care Res.*, in preparation.
161. Sasser, W., Tucci, M., Walley, S., Winkler, M., Hoover, W., and **Cron, R.Q.** 2016. Presentation of pediatric Wegener granulomatosis complicated by Legionella pneumonia. *Pediatr. Rheumatol. Online J.*, in preparation.
162. Record, J.L., Beukelman, T., and **Cron, R.Q.** 2016. CD19 counts for monitoring B cell depletion in pediatric rheumatology patients treated with rituximab. *Pediatr. Rheumatol.*, in preparation.
163. Atkinson, G., Sharpe, T., Beukelman, T., Weiser, P., Atkinson, T.P., and **Cron, R.Q.** 2016. Joint distribution among the 7 juvenile idiopathic arthritis subtypes. *Pediatr. Rheumatol. Online J.*, in preparation.
164. Atkinson, G., Sharpe, T., Beukelman, T., Weiser, P., Atkinson, T.P., and **Cron, R.Q.** 2016. Joint distribution among pediatric rheumatic disorders in comparison to juvenile idiopathic arthritis. *Pediatr. Rheumatol. Online J.*, in preparation.
165. McLendon, J.P., Beukelman, T., Weiser, P., and **Cron, R.Q.** 2016. High dose infliximab in treating pediatric rheumatologic granulomatous disorders. *Pediatr. Rheumatol. Online J.*, in preparation.
166. Weiss, P.F., and **Cron, R.Q.** 2016. Treatment of chronic non-renal Henoch-Schonlein purpura. *Pediatr. Rheumatol. Online J.*, in preparation.
167. Gewanter, H.L., Wright, D.A., and **Cron, R.Q.** 2016. Linear scleroderma in children with juvenile idiopathic arthritis. *Pediatr. Rheumatol. Online J.*, in preparation.
168. Dodd, C.H., Jester, T., Beukelman, T., Dimmitt, R.A., Saeed, S.A., and **Cron, R.Q.** 2016. Similarities between a cohort of children with juvenile spondyloarthritis and those with inflammatory bowel disease. *Arthritis Care Res.*, in preparation.
169. Shakoory, B., Chatham, W.W., and **Cron, R.Q.** 2016. Early Treatment of macrophage activation syndrome with anakinra, cyclosporine, and corticosteroid in adults. *Arthritis Care Res.*, in preparation.
170. Shakoory, B., **Cron, R.Q.**, and Chatham, W.W. 2016. Increased mortality and prolonged hospitalization associated with macrophage activation syndrome in adults. *Arthritis Care Res.*, in preparation.

171. **Cron, R.Q.**, Behrens, E.M., Sterba, G., and Miettunen, P.M. 2016. Hypertension as a common finding among children with macrophage activation syndrome. *J. Rheumatol.*, in preparation.
172. Krishna, S., Lehman, T.J., **Cron, R.Q.**, Ahmed, T., and Cherian, J. 2016. High-dose anakinra in the treatment of a previously healthy pediatric patient presenting with refractory macrophage activation syndrome. *Pediatrics*, in preparation.
173. Mannion, M.L., Reed, A., and **Cron, R.Q.** 2016. Allergic reactions to rituximab amongst a pediatric rheumatology cohort. *J. Rheumatol.*, in preparation.
174. Westhoven, K., Mannion, M.L., and **Cron, R.Q.** 2016. Infliximab therapy for pediatric relapsing polychondritis. *Pediatr. Rheumatol. Online J.*, in preparation.
175. Waite, P.D., and **Cron, R.Q.** 2016. Unresponsive TMJ arthritis. *J. Oral Maxillofac. Surg.*, in preparation.
176. Vinod, S.S., Reed, A.B., Stoll, M.L., and **Cron, R.Q.** 2016. Pediatric Rheumatology infusion center: report on therapeutic protocols and infusion reactions over 7 years. *J. Spec. Pediatr. Nurs.*, 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] http://www.the-rheumatologist.org/details/article/7131051/Ebola_Hemorrhagic_Fever_and_Macrophage_Activation_Syndrome.html [2 citations]

EDITORIALS/COMMENTARIES:

1. **Cron, R.Q.** 2001. Treatment for JRA in the new millennium. *J. Clin. Rheumatol.* 7:283-285.
2. **Cron, R.Q.** 2005. A signal achievement in the treatment of arthritis. *Arthritis Rheum.* 52:2229-2232. [11 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. [20 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.
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>] [1 citation]

REVIEWS:

1. 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. **[3 citations]**
2. 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. **[87 citations]**
3. **Cron, R.Q.**, and Swetter, S.M. 1994. Scleredema revisited. A poststreptococcal complication. *Clin. Pediatr. (Phila.)* 33:606-610. **[25 citations]**
4. **Cron, R.** 1995. Index of suspicion. Case 2. Diagnosis: Peritonitis. *Pediatr. Rev.* 16:117-119.
5. **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.] **[20 citations]**
6. **Cron, R.Q.** 2002. Current treatment for chronic arthritis in childhood. *Curr. Opin. Pediatr.* 14:684-687. **[10 citations]**
7. **Cron, R.Q.** 2003. CD154 transcriptional regulation in primary human CD4 T cells. *Immunol. Res.* 27:185-202. **[34 citations]**
8. **Cron, R.Q.** 2003. CD154 and lupus. *Pediatr. Rheumatol. Online J.* 1:172-181. **[4 citations]**
9. 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. **[31 citations]**
10. 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. **[2 citations]**
11. Beukelman, T.G., and **Cron, R.Q.** 2005. JIA-associated growth failure and exogenous growth hormone therapy. *Pediatr. Rheumatol. Online J.* 3:99-108.
12. 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) **[20 citations]**
13. 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. **[11 citations]**
14. Arabshahi, B., and **Cron, R.Q.** 2006. Temporomandibular joint arthritis in juvenile idiopathic arthritis: the forgotten joint. *Curr. Opin. Rheumatol.* 18:490-495. **[56 citations]**
15. 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. **[14 citations]**
16. 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. **[30 citations]**
17. 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. [3 citations]
18. 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. [83 citations]
 19. Sarver, D.M., Janyavula, S., and **Cron, R.Q.** 2013. Condylar degeneration and diseases – local and systemic etiologies. *Semin. Orthod.* 19:89-96. [1 citation]
 20. 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. [2 citations]
 21. Stoll, M.L., and **Cron, R.Q.** 2014. Treatment of juvenile idiopathic arthritis: a revolution in care. *Pediatr. Rheumatol. Online J.* 12:13. [11 citations]
 22. 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. [15 citations]
 23. 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. [1 citation]
 24. **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. [1 citation]
 25. Ravelli, A., Davi, S., Minoia, F., Martini, A., and **Cron, R.Q.** 2015. Macrophage activation syndrome. *Hematol. Oncol. Clin. N. Am.* 29:927-941.
 26. 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.
 27. Zhang, M., Grom, A.A., Ravelli, A., Behrens, E.M., and **Cron, R.Q.** 2016. Macrophage activation syndrome, recognizing the tip of the iceberg. *Immunol. Res., invited review.*
 28. Stoll, M.L., and **Cron, R.Q.** 2016. The microbiome in juvenile idiopathic arthritis. *Curr. Opin. Rheumatol., invited review.*

PAPER REPORTS:

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

BOOKS:

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. 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 Pediatric Orthopaedics Text. 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: The Indian Textbook of Pediatric Rheumatology (edition). pp. ??, 2015.
16. **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. ??-??, 2016.
17. **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. ??-??, 2016.
 18. **Cron, R.Q.** Association of herpes family viruses with autoimmunity and autoinflammation. IN: The Microbiome and Autoimmunity (1st Edition). Atkinson, T.P., and Stoll, M.L. ???, 2016.

PUBLISHED ABSTRACTS:

Poster Exhibits:

1. **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.
2. **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.
3. **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.
4. **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.
5. **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.
6. **Cron, R.Q.**, Lee, P., and Lewis, D.B. 2000. Generation of conditional NFAT1 transgenic mice (abstract). *FASEB J.* 14:A1082.
7. 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.
8. **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.
9. 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.
10. **Cron, R.Q.**, Genin, A., and Clausell, A. 2001. Regulation of HIV-1 transcription by c-maf (abstract). *FASEB J.* 15:A696.
11. 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.
12. 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.
13. 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]
14. 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.
15. 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.
16. 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.

17. 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.
18. 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.
19. 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.
20. 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.
21. 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.
22. 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.
23. **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.
24. 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.
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). *FASEB J.* 18:A458.
26. 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.
27. 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.
28. 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.
29. 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]
30. 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.
31. 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.

32. 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). American College of Rheumatology Program Book Supplement for ACR Annual Scientific Meeting, page 10.
33. 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.
34. 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*.
35. 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.
36. 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.
37. 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.
38. 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]
39. 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.
40. 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.
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). Stokes Scientific Retreat. 15:6.
42. 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:??.
43. 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*.
44. 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.
45. 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. *invited talk*.
46. Behrens, E., Beukelman, T., **Cron, R.Q.**, and Pessler, F. 2005. Secondary hemophagocytic lymphohistiocytosis: clinical and laboratory features in a recent cohort (abstract). *Clin Immunol.* 116:298-299. *invited talk*.

47. **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.
48. 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.
49. Doris, B., Parks, J., Rankin, C., Schonbeck, U., **Cron, R.**, St. Clair, R., and Mishra, N. 2005. Histone deacytlase inhibitors may prevent atherosclerosis while treating lupus (abstract). *Arthritis Rheum.* 52 (suppl 9):S698. *invited talk.*
50. 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.
51. 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.
52. 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.
53. 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.*
54. 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.
55. 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). American College of Rheumatology Annual Scientific Meeting, Program Book Supplement, pages 36-37. Awarded Earl J. Brewer Research Award.
56. 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). American College of Rheumatology Annual Scientific Meeting, Program Book Supplement, pages 63-64.
57. 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). American College of Rheumatology Annual Scientific Meeting, Program Book Supplement, page 47.
58. 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). American College of Rheumatology Annual Scientific Meeting, Program Book Supplement, page 65.
59. 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). American College of Rheumatology Annual Scientific Meeting, Program Book Supplement, page 29. Awarded ACR/REF Pediatric Rheumatology Research Award.

60. **Cron, R.Q.**, and Torgerson, T.R. 2006. Inhibition of NFAT2 expression by FOXP3 (abstract). *J. Immunol.* 176 (suppl):S198-S199.
61. 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.
62. Pessler, F., Dai, L., Einhorn, E., **Cron, R.Q.**, and Schumacher, H.R. 2006. Over-expression of the calcium-calciueurin-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*.
63. 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.
64. 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.
65. 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.
66. **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.
67. 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
68. 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.
69. 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.
70. **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.
71. 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??.
72. 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). American College of Rheumatology Annual Scientific Meeting, Program Book Supplement, pages 30-31.
73. 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). American College of Rheumatology Annual Scientific Meeting, Program Book Supplement, page 33.
74. 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:S7.

75. 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.
76. 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.
77. 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*.
78. **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.
79. 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.
80. 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*.
81. **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.
82. 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.
83. Wright, 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). Southern Society for Pediatric Research annual meeting. New Orleans, LA, *submitted*.
84. **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.* 182:99.48.
85. 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.
86. 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.
87. 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.
88. **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.* 184:135.4.
89. 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*.
90. **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*.
91. 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 2010, Valencia, Spain]
92. 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]
93. 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]
94. Nigrovic, P.A., Mannion, M., Zeff, 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]
95. 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]
96. 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]
97. 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]
98. 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). Southern Society for Pediatric Research annual meeting. New Orleans, LA, *accepted*.

99. 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*.
100. 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]
101. 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]
102. 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]
103. **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]
104. **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.*, *submitted*. [AAI Annual Scientific Meeting, San Francisco, CA]
105. 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. *Pediatr. Rheumatol. Online J.* 9 (suppl 1):P110. [PReS Congress, Bruges, Belgium]
106. **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]
107. 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.*, *submitted*. [EULAR, Berlin, Germany]
108. 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]
109. Powell, T.C., 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., Alarcon, G.S., and Brown, E.E. 2012. Differences in the SLE clinical phenotype by age of diagnosis (abstract). *Arthritis Rheum.* 64 (suppl 10):S289. [ACR 2012, Washington, DC]
110. 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]

111. 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**
112. **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]
113. 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]
114. 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, Ljubljana, Slovenia]
115. 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, Ljubljana, Slovenia]
116. 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]
117. 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]
118. 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]
119. 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]
120. 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, Belgrade, Serbia]
121. 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):S??. [ACR 2014, Boston, MA]
122. 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):S??. [ACR 2014, Boston, MA]
123. Kwong, J., Andujar, J., Weiss, P., **Cron, R.Q.**, Chefitz, D., Craig, V., Weissmann, D., 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):S??. *accepted*. [ACAAI, American College of Allergy, Asthma & Immunology, Atlanta, GA]
124. 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.*, *accepted*. [AAI Meeting, New Orleans, LA]
125. 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]
126. 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]
127. 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):S??. [ACR 2015, San Francisco, CA]
128. Minoia, F., Horne, A., 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.Q.**, and Ravelli, A. 2015. Macrophage activation syndrome and familial hemophagocytic lymphohistiocytosis: is their clinical

- phenotype really similar (abstract)? *Arthritis Rheumatol.* 67 (suppl 10):S???. [ACR 2015, San Francisco, CA]
129. 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., submitted.* [AAI Meeting, Seattle, WA]
 130. 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. *J. Immunol., submitted.* [AAI Meeting, Seattle, WA]

Oral Presentations by Dr. Cron:

131. **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 #25). Pediatric Academic Societies' Annual Meeting. New Orleans, LA.
132. **Cron, R.Q.**, Schubert, L.A., and Lewis, D.B. 1998. Identification of an enhancer element located downstream of the CD40-ligand gene (abstract). American College of Rheumatology Annual Scientific Meeting. San Diego, CA. *Arthritis Rheum.* 41 (suppl 9):S235.
133. **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.
134. **Cron, R.Q.**, Genin, A., and Brunner, M. 2001. Regulation of CD154 in systemic lupus erythematosus (abstract). EULAR meeting. Prague, Czech Republic. *Ann. Rheum. Dis.* 60 (suppl I):82.
135. **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.
136. **Cron, R.Q.**, and Brunner, M. 2002. Identification of a novel GATA-regulated CD154 transcriptional enhancer (abstract). SLE: Targets for New Therapeutics. Bethesda, MD.
137. **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.
138. **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.
139. **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.*
140. **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.
141. **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.*

142. **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.
143. **Cron, R.Q.**, Centola, M., Frank, B., Dozmozor, I., Genin, A., and Torgerson, T.R. 2006. Inhibition of NFAT2 expression by FOXP3 (abstract). Keystone Symposia – Lymphocyte Activation and Signaling, Steamboat, CO.
144. **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.
145. **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. *J. Immunol.*
146. **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.* ??
147. **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]
148. **Cron, R.Q.**, and Zhang, M. 2013. Blurring of the distinction between hemophagocytic lymphohistiocytosis and macrophage activation syndrome (abstract). *J. Immunol.* ??.
[AAI Meeting, Honolulu, HI]
149. **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]
150. **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]

Oral Presentations by Co-Authors:

151. 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]
152. 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]
153. 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]
154. 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*.
155. 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.*
156. 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. *Pediatr. Rheumatol. Online J.* 9 (suppl 1):P101. [PReS Congress, Bruges, Belgium] [presented as an oral presentation by Dr. Davi]
 157. 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., Turnbull, 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]
 158. 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]
 159. 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]
 160. 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]
 161. Dunnavant, 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. Dunnavant]
 162. 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]
 163. 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]
 164. 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]
 165. 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., Lehmberg, 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, Belgrade, Serbia] [presented as an oral presentation by Dr. Ravelli]

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 Pathology
American Journal of Physiology – Cell Physiology
Archives of Disease in Childhood
Archives of Pediatric & Adolescent Medicine
Arthritis & Rheumatism
Arthritis & Rheumatology
Arthritis Care & Research
Arthritis Research & Therapy
Blood
BMC Medicine
Clinical and Developmental Immunology
Clinical and Diagnostic Laboratory Immunology
Clinical Drug Investigation
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 Orphan Drugs
Expert Opinion on Pharmacotherapy
Expert Review of Clinical Immunology
FASEB Journal
Future Rheumatology
Gene Therapy
Genes and Immunity
Human Immunology
Immunological Investigations
Immunology
Infection and Immunity
Inflammation
International Journal of Immunogenetics

International Journal of Inflammation
International Journal of Rheumatology
JAMA Pediatrics
Journal of Biological Chemistry
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 Leukocyte Biology
Journal of Pediatric Hematology/Oncology
Journal of Perinatology
Journal of Rheumatology
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
Seminars in Arthritis and Rheumatism
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



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., Zeff, 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. Mechcatie, 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. Mechcatie, 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.*, *in press.*] [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/>

[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