

CURRICULUM VITAE

Date: July 26, 2017



PERSONAL INFORMATION:

Name: Randy Q. Cron, M.D., Ph.D.

Citizenship: U.S.A.

Social Security Number: xxx-xx-xxxx

Home address: 3401 N. Woodridge Road
Birmingham, AL 35223

Phone: (205) 306-9522

Email: rcron@peds.uab.edu

Lab webpage: <http://www.uab.edu/medicine/immunology/faculty?id=81:cron&catid=39:faculty>

Pediatric Rheumatology Division webpage: <http://www.uab.edu/medicine/peds/rheum>

Children's of Alabama webpage: <https://www.childrensal.org/dr-randy-cron-md-phd-rheumatology>

UAB SOM webpage: <http://apps.medicine.uab.edu/FacultyDirectory/FacultyData.asp?FID=30608>

Clinical Immunology and Rheumatology Division webpage:

<https://www.uab.edu/medicine/rheumatology/faculty/35-area-2/pediatric-rheumatology-faculty/62-randy-q-cron-md-phd>

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 M10
Birmingham, AL 35233

Phone: (205) 996-9191

Secondary Appointment UAB	Senior Scientist Comprehensive Cardiovascular Center (CCVC)	2013
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Secondary Appointment Department: Medicine	Professor Division of Clinical Immunology and Rheumatology	2009
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Secondary Appointment UAB	Scientist Center for AIDS Research (CFAR)	2008
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Secondary Appointment UAB	Faculty Graduate Biomedical Sciences Program in Immunology	2008
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Secondary Appointment UAB	Faculty Graduate Biomedical Sciences Program in Pathobiology & Molecular Medicine	2008
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HOSPITAL AND OTHER (NON ACADEMIC) APPOINTMENTS:

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

PROFESSIONAL CONSULTANTSHIPS:

Systemic Juvenile Idiopathic Arthritis Advisory Board, Genentech, San Francisco, CA	2011-12
Systemic Juvenile Idiopathic Arthritis Advisor, Swedish Orphan Biovitrum, Chicago, IL	2011, 2013
Systemic Juvenile Idiopathic Arthritis Advisory Board, Novartis, New Orleans, LA	2012-14
Anti-tumor necrosis factor patents, consultant, AbbVie	2015
Use of subcutaneous methotrexate in JIA Advisory Board, medacPHARMA, Dallas, TX	2016
North American Advisory Board for Use of Anakinra in Sepsis, SOBI, Washington, D.C.	2016
Specialist Reviewer (Pediatric Rheumatology), MedStudy Peds Core Curriculum	2016

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/Kaul Pediatric Research Institute (KPRI) grant recipient
- 2013 Invited Lecturer, EuroTMjoint Meeting, Aarhus, Denmark
- 2013 Alabama Society for Rheumatic Diseases, re-elected as President
- 2013 selected as a Top Rheumatologist in Birmingham, AL by Internat. Assoc. of Health Care Profess.
- 2013 Department of Pediatrics Excellence in Teaching Award
- 2013 Invited Lecturer, AAOMS (American Association of Oral and Maxillofacial Surgeons) Annual Meeting, Orlando, FL
- 2013 Invited Lecturer, 10th Annual Lectureship in Oral & Maxillofacial Surgery, UAB
- 2014 American College of Rheumatology RRF/AMGEN Pediatric Rheumatology Visiting Professor
- 2014 Invited Lecturer, EuroTMjoint Meeting, Tampere, Finland
- 2014 Department of Pediatrics Excellence in Medical Education Award
- 2014 Invited Lecturer, 30th Annual Histiocyte Society meeting, Toronto, ON
- 2015 American Pediatric Society (APS), elected member
- 2015 Invited Lecturer, 8th Annual Conference of the Rheumatology Nurses Society, Orlando, FL
- 2015 selected as Castle Connolly Top Doctor, *America's Top Doctors*®
- 2015 selected as Top Doctor by *B-Metro Magazine*®
- 2015 Department of Pediatrics Excellence in Teaching Award
- 2016 Rud Polhill/Kaul Pediatric Research Institute (KPRI) grant recipient
- 2016 APS International Travel Grant Program (ITPF) recipient to attend the European Academy of Paediatric Societies (EAPS) meeting in Geneva, Switzerland
- 2016 selected member, American Board of Pediatrics Content Development Team, Peds. Rheum.
- 2016 selected member, ACR RRF Scientific Advisory Council
- 2016 selected as Top Doctor by *B-Metro Magazine*®
- 2016 Department of Pediatrics Excellence in Teaching Award

- 2016 UAB/HudsonAlpha Center for Genomic Medicine grant recipient
- 2017 Histiocytosis Association, grant recipient
- 2017 Key Note Lecturer, James and Nancy Cassidy Endowed Lecture in Pediatric Rheumatology, University of Missouri, Columbia, MO
- 2017 American College of Rheumatology RRF/AMGEN Pediatric Rheumatology Visiting Professor
- 2017 Chair, ACR Pediatric Rheumatology Visiting Professorship program

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)
- Content Development Team, Pediatric Rheumatology (2016-present)

American College of Rheumatology, including Pediatrics subsection

- ACR/EULAR Exchange group (2001-present)
 - ACR/EULAR Exchange Study Group, Organizer and Moderator, ACR meeting (2005-2007)
- Senior Host (2012-2013)
- “Understanding Children with Rheumatic Diseases: Issues in Clinical Care and Ontogeny of the Immune System”, Study Group Co-Organizer, ACR meeting (2002)
- Young Investigator Subcommittee, Committee on Research (2003-2008)
 - “Transitioning from Fellowship to Your First Academic Appointment”, Young Investigators Subcommittee of the Committee on Scientific Research, Organizer and Moderator, ACR meeting (2005)
 - Mentoring Award for ACR national meeting, developer (2008)
- “Lymphocyte Activation and Regulation”, Abstract Selection Subcommittee, ACR meeting (2003)
- “Pediatric Rheumatology”, Abstract Selection Subcommittee, ACR meeting (2003)
- “Pediatric Rheumatology: Pathogenesis and Genetics I”, Co-Moderator, ACR meeting (2006)
- *Arthritis and Rheumatism*, Advisory Editor (2007-2010)
- “Pediatric Rheumatology Pathogenesis and Genetics”, Abstract Selection Subcommittee, ACR meeting (2007)

- “Basic Sciences”, Abstract Selection Subcommittee, ACR Keystone Pediatric Rheumatology Symposium (2008)
- “T-Cell Biology and Targets in Autoimmune Disease”, Abstract Selection Subcommittee, ACR meeting (2008)
- “T-Cell Signaling in Autoimmune Disease”, Moderator, ACR meeting (2008)
- Macrophage Activation Syndrome Study Group, Founder, Organizer & Co-Moderator, ACR meeting (2009-present)
- Juvenile Idiopathic Arthritis Treatment Guidelines, Core Expert Panel member (2009-2011)
- Juvenile Arthritis Workgroup (JAW) TMJ Study Group, Founder, Organizer & Co-Moderator, ACR meeting (2010-present)
- Research and Education Foundation (REF) basic science study section member/grant reviewer (2011-2015)
 - Chair, study section C (2013-2015)
- Pediatric Rheumatology “Top 5” list Core Membership Panel (2012-present)
- “Macrophages Gone Wild”, State-of-the-Art symposium, Co-Moderator, ACR Meeting (2014)
- *Arthritis Care & Research*, Editorial board member (2015-2017)
- “Pathogenesis and Genetics of Pediatric Rheumatology”, Abstract Selection Subcommittee, ACR Meeting (2015)
- “Nuts and Bolts of Macrophage Activation Syndrome”, Organizer & Co-Moderator, ACR Meeting (2015)
- Selected member, ACR RRF Scientific Advisory Council (2016-present)
- “Pediatric Rheumatology”, Abstract Selection Subcommittee, ACR meeting (2017)
- Pediatric Rheumatology Visiting Professorship program, Chair (2017)

American Medical Association

American Pediatric Society (APS) (2015-present)

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

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

- Mentor to Dr. Grant Schulert (University of Cincinnati) (2013-2015)
- Mentor to Dr. Catherine Biggs (Harvard University) (2014-2016)
- Mentor to Dr. Angel Alberto Herrera Guerra (Emory University) (2016-present)

Arthritis Foundation

- Speaker, Juvenile Arthritis National Conference (2007, 2010, 2011, 2012, 2016)
- Board of Directors, Alabama Chapter (2009-2010)
- Alabama Advisory Board (2010-2013)
- Scientific Review Committee for grants proposals (2010, 2012)
- Board of Directors, Southeast Region (2010-2013)

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

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
HIV Basic Sciences Research 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

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

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

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

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

UNIVERSITY ACTIVITIES:
(University of Washington):

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

(Stanford University):

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

(University of Pennsylvania):

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

(University of Alabama at Birmingham):

17. Chair, Scientific Review Committee for Pediatric Rheumatology, 2007-present
18. Children's Center for Research & Innovation, grant reviewer, 2007, 2009, 2010, 2013, 2014
19. Committee for faculty recruitment to adult Rheumatology Division at UAB, 2007-present
20. Executive Committee Member for the UAB Rheumatic Diseases T32 training grant, 2007-present
21. Co-Study Coordinator, 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-present
24. Interviewer and selection committee member, Department of Pediatrics Residency Program, Children's Hospital of Alabama, Birmingham, AL, 2008-present
25. UAB Arthritis and Musculoskeletal Center Steering Committee, 2009-present
26. Presenter, Children's Hospital of Alabama Pediatrics Residency Research Mentor Day, 2009
27. Mentor, UAB Summer Premedical Student Program (doctor shadowing), Ms. Tishi Shah, 2009
28. Committee for faculty recruitment to Pediatric Endocrinology Division at UAB, 2009-2011
29. Mentor, UAB Summer Premedical Student Program (doctor shadowing), Mr. Kishorbhaj Gangani, 2010
30. Pediatric Rheumatology Medical Service Representative for iConnect Computerize Physician Order Entry (CPOE), 2009-present

31. Member, UAB Distinguished Faculty Lecturer Committee, 2010-2012, champion for candidate, Dr. Sergio Stagno, 2012 (awarded to Dr. Stagno in 2015)
32. Reviewer, scientific abstracts for oral presentations, UAB Medical Student Research Day, 2010
33. Pediatric Residency Recruiting Committee, 2010-present
34. UAB Arthritis and Musculoskeletal Center Training Program Steering Committee, 2010-present
35. UAB CFAR Internal Advisory Core Directors Committee, 2010-present
36. UAB Immunology, Autoimmunity, Transplantation Steering Committee, 2010-2015
37. UAB Immunology, Autoimmunity, Transplantation Steering Committee, Adaptive Immunology Work Group, 2011-2015
38. Interviewer, UAB, Medical Scientist Training Program, 2011-present
39. Interviewer, UAB Immunology Theme Graduate Student Program, 2011-present
40. Member, NIAMS Multidisciplinary Clinical Research Center (MCRC) Executive Committee, 2011-2013
41. Judge, Poster exhibits for Graduate Biomedical Sciences first year theme students, 2011
42. Interviewer, UAB Pathobiology & Molecular Medicine Graduate Student Program, 2012
43. Member, UAB Clinical Immunology & Rheumatology MCRC Executive Committee, 2012-present
44. Mentor, UAB Pediatrics Child Health Research Center Development Award, K12, 2012-2013
45. Member, UAB Healthcare Leadership Academy Advisory Board, 2012-present
46. Member, CoA CPOE and Chemotherapy Committee, 2012-present
47. 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, 2013-2017, 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 Dr. Mark Walter, "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

63. Member, CCTS Research Commons – Panels Done Quickly (PDQ) for Dr. Stephanie Sabbaj, “Differentiation of Tissue Resident Memory (TrM) CD8 T cells and the Maintenance and Function of CD4 Th17 cells”, 2016
64. Member, CCTS Research Commons – Panels Done Quickly (PDQ) for Dr. Laura Timares, “T cell populations in HIV-infected/ART-treated (HIV/ART) patients are imprinted by the immunologic stress of the initial rampant infection, causing them to remain in a stable state of dysfunction”, 2016

(University of Mississippi):

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

EDITORIAL BOARD MEMBERSHIPS:

Arthritis and Rheumatism, Advisory Editor, 2007-2010
Arthritis Care & Research, Editorial Board, 2015-2017
Clinical and Diagnostic Laboratory Immunology, Editorial Board, 2002-2005
Clinical and Vaccine Immunology, Editorial Board, 2006-2010
Genes and Immunity, Editorial Board, 2002-present
Journal of Immunology, Associate Editor, 2005-2008; Section Editor, 2014-2018
Pediatric Rheumatology, Section Editor, 2007-2008; Senior Editor, 2008-present
Pediatric Rheumatology Online Journal, 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.
7. Role of the microbiota in spondyloarthritis.

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, December 2016
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
32. Lecturer, “Macrophage Activation Syndrome – Kill or Be Killed”, for the Juvenile Arthritis Research Symposium in Honor of Dr. Carol Wallace, Seattle Children’s Research Institute, May 2016

(University of Miami - Visiting Professorship):

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

(Albany Medical College - Visiting Professorship):

37. Lecturer, “Pediatric Connective Tissue Diseases”, Pediatrics Resident Conference, Children’s Hospital at Albany Medical Center, June 2015
38. Lecturer, “Juvenile Idiopathic Arthritis”, Pediatrics Resident Conference, Children’s Hospital at Albany Medical Center, June 2015
39. 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):

40. Lecturer, Immunology 999/599, Immunology Faculty Research Seminar, University of Pennsylvania Medical School, 2000-2006
41. Founder and course director, CHOP Pediatric Rheumatology Grand Rounds (CME accredited), 2001-2007
42. Co-director, Immunology 599, Fall 2001, 2002 and Spring 2002, 2003
43. Faculty Mentor, Immunology 605, Current Topics in Molecular and Cellular Immunology, Spring 2001 (Marina Kremyanskaya)
44. Lecturer, Immunology 605, March 2002
45. Faculty Tutor, Immunology 520, Elective Tutorials in Immunology, Fall 2002 (Emily Rowell)
46. Lecturer, University of Pennsylvania, Biochemistry Seminar Series, September 2002
47. Mentor, Doctor-Patient Relationship course (MD301), Fall 2002, Spring 2004, Fall 2005, Fall 2006
48. Co-director, Immunology 605, Spring 2003
49. Course Director, Immunology 520, Fall 2003, 2004
50. Faculty Mentor, Immunology 605, Spring 2004 (Jodi Buckler)
51. Lecturer, CAMB 542, Topics in Molecular Medicine, University of Pennsylvania MD/PhD program, 2004
52. Lecturer, Immunology 506, Immune Mechanisms, Fall 2004
53. Preceptor, MD305, Introduction to Clinical Medicine, Fall 2004
54. Lecturer, Immunology 508, Immune Responses, Spring 2005, 2006, 2007
55. Lecturer, Chalk Talks, Microbiology, Virology, & Parasitology Program, Fall 2006
56. Lecturer, University of Pennsylvania Medical School "Frontiers in Medicine", Winter 2007

(University of Alabama at Birmingham):

57. Lecturer, Pathology 795, Rheumatology/CAMBAC Journal Club, 2008-present
58. Case Presentation, University of Alabama at Birmingham School of Medicine, "Patient Centered Teaching", Medicine/Rheumatology, Spring 2008, Fall 2009
59. 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
60. Lecturer, "Juvenile Idiopathic Arthritis", UAB School of Medicine Musculoskeletal and Skin Module, September 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016
61. Mentor, Integration of Basic Science and Clinical Medicine for 3rd year medical students, 2010-present
62. Lecturer, "Transcription Factors in Autoimmunity and Autoimmune Diseases", Advanced Course in Autoimmunity, Spring 2010
63. Course Director, Pediatric Rheumatology Acting Internship for medical students, 2010-present
64. Participating Faculty member, Pediatric Dentistry Physical Assessment I, Clinical Rotation, Fall 2010-present
65. Evaluator, PROSCE (Pediatric Rheumatology Objective Structured Clinical Examination), Northwestern University, November 2011
66. 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:

67. Mentor for Palav Babaria, Harvard University undergraduate, Summer 2001 (Yale Medical School, Internal Medicine Residency core faculty member at Highland Hospital, Oakland, CA)
68. Mentor for Elizabeth Dejewski (Reetz), LaSalle University undergraduate, 2001-2002 (Family physician in Baltimore, MD)
69. 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)
70. 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)
71. 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)
72. Mentor for Barrett Larussa, Sewanee University of the South undergraduate, Summer 2011 (works at UAB)
73. Mentor for Brian Lefchak, Drexel University (Philadelphia, PA) undergraduate, Summer 2011 (medical student at Drexel University College of Medicine)

GRADUATE STUDENTS:

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

88. Thesis committee member for immunology graduate student, Sarah Whitley, 2009-2011
89. Mentor for Dr. Christopher Dodd, Children's Hospital of Alabama pediatrics resident, 2009-2010
90. 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)
91. Mentor for Tyler Sharpe, UAB medical student, 2010-2011
92. Mentor for Dr. Melissa Mannion, Children's Hospital of Alabama pediatrics resident, 2010-2011
93. 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)
94. Mentor for Dr. John McLendon, Children's Hospital of Alabama pediatrics resident, 2010-2011
95. Mentor for George Atkinson, UAB medical student, 2010-2011
96. Mentor for Tanya Robinson, University of Alabama at Birmingham, rotating immunology graduate student, 2010
97. Mentor for Caroline Colvin, Children's Hospital of Alabama pediatrics resident, 2010
98. Mentor for Emily Fain, UAB medical student, 2010-2011
99. Mentor for Qing Zhao, University of Alabama at Birmingham, rotating microbiology graduate student, 2010
100. Mentor for Hyungwoo Nam, University of Alabama at Birmingham, rotating immunology graduate student, 2011
101. Mentor for Timothy Rohrbach, University of Alabama at Birmingham, rotating immunology graduate student, 2011
102. Mentor for Stephen M. Johnson, UAB medical student, 2011
103. Thesis advisor for graduate student, Tanya Robinson, CFAR "Basic Mechanisms in AIDS Pathogenesis" T32 recipient, 2011-2015, AAI Careers in Immunology Fellowship recipient, 2015-2016; 2017 – postdoctoral fellow at University of Texas MD Anderson Cancer Center with a PhD in Immunology
104. Chairperson, thesis committee for immunology graduate student, Tanya Robinson, 2011-2016
105. Mentor for Kimberly Westhoven, UAB medical student, 2011
106. Mentor for Susan Wiltrakis, UAB medical student, 2011
107. Mentor for Shane McKinney, UAB medical student, 2011
108. Mentor for Leanne Bowman, UAB pediatric dental student, 2011
109. Mentor for Suwat Teerawattanapong, UAB Oral & Maxillofacial (OMF) Surgery resident, 2011
110. Rina Mina, M.D., M.Sc. (2011-2012), University of Cincinnati Pediatric Rheumatology fellow, studying iontophoresis of corticosteroids to treat TMJ arthritis in JIA
111. Mentor for Ashley Shafferman, UAB medical student, 2012, 2014
112. Mentor for Ajay Tambralli, UAB medical student, 2012, 2014
113. Mentor for Benjamin Abt, DMD, OMF surgery resident, 2012
114. Mentor for Anthony Morlandt, DDS, MD, OMF surgery resident, 2012
115. Qualifying exam committee member for Microbiology thesis student, Victor Du, 2012
116. Mentor for Courtney Crayne, UAB medical student, 2012
117. Mentor for Ashley Conoway, University of Alabama at Birmingham, rotating HHMI immunology graduate student, 2012

118. Mentor for Floyd Dunnavant, UAB radiology resident, 2012
119. Thesis committee member for immunology graduate student, Victor Du, 2012-2016
120. Mentor for Roxanna Sabghi, UAB medical student, 2013
121. Thesis committee member for immunology graduate student, Sara Stone, 2013-
122. Mentor for Sulaiman Al-Ruwaily, DDS, MD, OMF surgery fellow, 2013
123. Mentor for Saji Azerf, UAB medical student, 2014
124. Mentor for Rachel Harvey, UAB dental student, 2014
125. Mentor for Leslie Avant, UAB medical student, 2015
126. Mentor for Catherine Poholek, UAB medical student, 2015
127. Thesis committee member for immunology graduate student, Molly Bolland, 2015-*ad astra*
128. Mentor for Surabhi Vinod, UAB medical student, 2016
129. Mentor for Bethany Johnson, UAB medical student, 2017
130. Mentor for Allison Blackerby, UAB Biotechnology Masters Program student, 2017
131. Mentor for Caroline Arata, UAB medical student, 2017
132. Mentor for Mahmoud Elsayed, UAB medical student, 2017

CLINICAL RHEUMATOLOGY FELLOWS:

FORMER FELLOWS (University of Pennsylvania):

133. 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
134. Frida Gudmundsdottir, M.D. (2000), *ad astra*
135. 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
136. 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
137. 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)
138. 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
139. 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

140. 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
141. 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
142. 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
143. 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
144. Eric Hanson, M.D. (2005-2007), Senior Clinical Fellow, Henry Metzger Scholar, Autoimmunity Branch, Immunoregulation Section, NIAMS/NIH, Bethesda, MD
145. 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
146. 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):

147. UAB Adult Rheumatology Fellows: Direct supervision and education of adult rheumatology fellows during their required training in pediatric rheumatology. Fellows trained to date (2007-): Allyson McDonough, Maria Danila, Zang Song, Elizabeth Perkins, Bitu Shakoory, Ajoy Chhabra, Bilal Kahn, Iris Navarro, Quynh Bao, Rebecca Belsom, Archana Jain, Yong Hwang, Jenny Lin, Xena Whittier, Matthew Mullen, Randall Beyl, Aprajita Jagpal, Lindsay Neely, Lopez Corbeto (Barcelona, Spain, visiting scholar)
148. 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
149. Will Sasser, M.D. (2010-2011), co-mentor for Legionella trigger vasculitis, Pediatric Pulmonary fellow, University of Alabama at Birmingham
150. Christy Bemrich-Stolz, M.D. (2010-2011), UAB Pediatric Hematology/Oncology fellow, studying heterozygous HLH mutations in secondary MAS
151. Naren Vadlamudi, M.D. (2011-2012), UAB Pediatric Gastroenterology fellow

- 152. Tracy Jester, M.D. (2012-2013), UAB Pediatric Gastroenterology fellow
- 153. 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):

- 154. 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)
- 155. Courtney B. Crayne, M.D. (2016-), UAB Pediatric Rheumatology fellow, Chu Family Educational Scholarship (2017)

LABORATORY POST-DOCTORAL FELLOWS

PAST FELLOWS:

- 156. Anna Genin, M.D., Ph.D. (2000-2015), retired
- 157. Michael Brunner, Ph.D. (2000-2004), *ad astra*
- 158. Shyamala Arunachalam, Ph.D. (2003-2004), adjunct laboratory lecturer at University of North Florida
- 159. Rebecca Shilling, M.D. (2005), University of Chicago Immunology, KO8 Advisory committee
- 160. Ashley Harms, Ph.D. (2011-2015), UAB Neurosciences, Michael J. Fox Foundation grant to study MHC class II in mouse model of Parkinson disease
- 161. Grant Schultert, M.D., Ph.D. (2013-2015), Univ. of Cincinnati Pediatric Rheumatology fellow
- 162. Catherine, Biggs, M.D. (2014-2016), Harvard University Pediatric Allergy & Immunology fellow

CURRENT FELLOWS:

- 163. 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)
- 164. Megan Yanik, M.D. (2016-present), UAB Pediatric Nephrology fellow
- 165. Angel Alberto Herrera Guerra, M.D. (2016-present), Emory University Pediatric Rheumatology fellow

JUNIOR FACULTY ADVISOR/MENTOR:

- 166. 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
167. 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
 168. 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
 169. Robert Lowe, M.D., Ph.D. (2011-2016), Assistant Professor of Pediatrics, Division of Rheumatology, University of Alabama at Birmingham, Kaul Pediatric Research Institute/Alabama Children’s Hospital Foundation grant, “Gene Replacement Therapy for the Treatment of X-Linked Hyper-IgM Syndrome” (PI); CHRC K12 grant, “Epigenetic regulation of the CD154 gene in children and adults with lupus”; Arthritis Foundation, “Epigenetic Regulation of CD154 Gene Expression” (PI); CNIHR (NIH CFAR), “Role of FoxP3 in Blocking Transcriptional Activation of HIV-LTR in T-reg Cells” (PI); Ruth L. Kirschstein National Research Service Award (NRSA)/NIH L30
 170. 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)
 171. Hilary Haines, M.D. (2011-present), Assistant Professor of Pediatrics, Division of Hematology and Oncology, University of Alabama at Birmingham, Birmingham, AL
 172. Bitu Shakoory, M.D. (2012-2016), Assistant Professor of Medicine, Division of Rheumatology, Temple University, Philadelphia, PA, then George Washington, University, Washington, DC
 173. Melissa Mannion, M.D., M.S.P.H. (2014-present), Assistant Professor of Pediatrics, Division of Rheumatology, University of Alabama at Birmingham, UAB SOM
 174. Nina Washington, M.D., M.P.H. (2015-2016), Assistant Professor, Division of Rheumatology, Department of Pediatrics, University of Mississippi SOM
 175. Esraa M. Elloseily, M.D., M.Sc. (2016-2017), Lecturer and Specialist (Pediatric Rheumatology), Department of Pediatrics, Assiut University, Assiut, Egypt

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

176. Pediatric Rheumatology Clinic, Lucile Salter Packard Children's Hospital at Stanford, attending physician one day per week, 1998-1999
177. Attending Physician on the Pediatric Rheumatology Service, Lucile Salter Packard Children's Hospital at Stanford, two months per year, 1998-1999
178. Pediatric Rheumatology Clinic, Children's Hospital of Philadelphia, attending physician one day per week, 1999-2007
179. Attending Physician on the Pediatric Rheumatology Service, Children's Hospital of Philadelphia, two months per year, 2000-2007
180. Pediatric Rheumatology Clinic, Children's Hospital of Alabama, attending physician 1.5 days per week, 2007-present
181. Attending Physician on the Pediatric Rheumatology Service, Children's Hospital of Alabama, 7-26 weeks per year, 2007-present
182. Collaborative Physician for Pediatric Nurse Practitioner, Annette Reed, CRNP, Children's Hospital of Alabama, 2007-present
183. Attending Physician, Children's Rehabilitation Service, Children's Hospital of Alabama, once monthly, 2008-2011
184. Attending Physician, UAB Pediatric Rheumatology Fellow's Clinic, 0.5 days per week, 7-10 weeks per year, 2011-present

MAJOR LECTURES AND VISITING PROFESSORSHIPS:

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

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

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

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

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

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

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

- April 2012 “Temporomandibular Joint Arthritis in Pediatric Inflammatory Arthropathies” - Pediatric Research Seminar, University of Miami, Leonard M. Miller School of Medicine, Miami, FL
- May 2012 “Developing the Researcher’s Toolkit” - Health Care Leadership Academy graduation, University of Alabama at Birmingham, Birmingham, AL
- May 2012 “FOXP3 and NFAT2, Transcription Factors with Competing Interests” - Research in Progress Seminar Series, UAB Comprehensive Musculoskeletal and Autoimmunity Center, Birmingham, AL
- June 2012 “Be Afraid, Be Very Afraid of Macrophage Activation Syndrome” - Pediatric Grand Rounds, State University of New York (SUNY) at Stony Brook, NY
- June 2012 “Temporomandibular Joint Arthritis in Pediatric Inflammatory Arthropathies” - Pediatric Research Seminar, State University of New York (SUNY) at Stony Brook, NY
- July 2012 “Temporomandibular Joint Arthritis (TMJ) in Childhood Arthritis” - American Juvenile Arthritis Organization (AJAO) National Conference, St. Louis, MO
- Sept. 2012 “HLH and Burkitt’s Lymphoma” - Third Annual HLH Boot Camp, University of Cincinnati, OH
- Nov. 2012 “Rapid and Effective Response to Immunosuppression in Treating Macrophage Activation Syndrome Associated with a Heterozygous Dominant Negative Mutation in RAB27a Leading to Decreased Cytolytic Capacity” - American College of Rheumatology National Scientific Meeting, Washington, DC
- Nov. 2012 “Be Afraid, Be Very Afraid of Macrophage Activation Syndrome” - 2012 ACR/EULAR Exchange Program Participants Colloquium, NIAMS, National Institutes of Health, Bethesda, MD
- Nov. 2012 “Be Afraid, Be Very Afraid of Macrophage Activation Syndrome” - Rheumatology Rounds, Johns Hopkins University, Baltimore, MD
- Nov. 2012 “Be Afraid, Be Very Afraid of Macrophage Activation Syndrome” - ACR/EULAR Exchange Program Participants Colloquium, Feinstein Institute for Medical Research, Manhasset, NY
- Dec. 2012 “5 Years Later, The Vision is Realized: Solidifying Pediatric Rheumatology in Alabama” - Arthritis Foundation National Annual Meeting and Volunteer Leadership Conference, Colorado Springs, CO [presented as video in my absence]

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

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

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

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

CURRENT:

1. Kaul Pediatric Research Institute, "Inhibition of HIV-1 Expression by Regulatory CD4 T Cells", Principal Investigator: Cron, 2016-2018, \$100,000
2. Swedish Orphan Biovitrum, "Treatment of Macrophage Activation Syndrome with Anakinra", Co-Principal Investigator: Cron, 2017-2019, \$300,000
3. 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)
4. NIH/NIAID R56, "Overcoming HIV-1 transcriptional latency in unresponsive CD4 T cells", Co-Investigator: Cron, 2016-2017, \$350,000 (\$122,846 to Cron lab)
5. UAB/HudsonAlpha Center for Genomic Medicine, "Genetic Defects in Cytolysis in Patients with Macrophage Activation Syndrome Enrolled in a Clinical Trial to Explore Interleukin-1 Blockade Therapy", Principal Investigator: Cron, 2016-2018, \$200,000
6. Histiocytosis Association, Principal Investigator: Cron, "Genetic Defects in Cytolysis in Patients with Macrophage Activation Syndrome Enrolled in a Clinical Trial to Explore Interleukin-1 Blockade Therapy", 2017-2018, \$50,000
7. AB2 Bio, "Multicenter, randomized, double-blind, placebo-controlled trial with Tadekinig alfa (rh IL-18BP) in patients with IL-18 driven monogenic autoinflammatory conditions: NLRC4 mutation and XIAP deficiency," Site Principal Investigator: Cron, 2017-forward, \$14,000 per patient enrolled
8. American College of Rheumatology Research & Education Foundation/AMGEN, Pediatric Rheumatology Visiting Professorship Award, Recipient, 2017, \$2,000
9. NIH/NIAID R01, "Overcoming HIV-1 transcriptional latency in unresponsive CD4 T cells", Co-Investigator: Cron, 2017-2021, \$1,250,000 (\$400,000 to Cron lab)

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
33. American Pediatric Society Travel Grant, “A heterozygous RAB27A mutation causes delayed cytolytic granule polarization and hemophagocytic lymphohistiocytosis in 2 unrelated teenagers”, Recipient: Cron, 2016, \$3,500
34. American Association of Immunologists Careers in Immunology Fellowship Award, “The Effect of Regulatory CD4 T Cells on HIV-1 Infection of Polarized M1 and M2 Macrophages”, Principal Investigator: Cron, 2015-2016, \$22,920

MENTORED GRANTS:

CURRENT (mentored grants):

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

PAST (mentored grants):

1. Elizabeth Glaser Pediatric AIDS Foundation, “Analysis of the role of the c-maf transcription factor in HIV”, Student: Eric Chen, Mentor: Cron, 2002, \$2,000
2. American College of Rheumatology Research & Education Foundation, “The Role of NFAT Proteins in CD154 Expression in SLE”, Student: Jennifer Kozak, Mentor: Cron, 2003, \$4,000
3. AMGEN, “AMGEN Rheumatology Fellowship Award Program”, Fellow: Ed Behrens, Mentor: Cron, 2004-2005, \$25,000
4. Goldie Simon Preceptorship Award, “CD154 and Lupus”, Student: Marie Ridenour, Mentor: Cron, 2005, \$1,000
5. Goldie Simon Preceptorship Award, “Role of STAT5 in IL-15-Augmented CD154 Transcription in SLE”, Student: Audrey Daggan, Mentor: Cron, 2006, \$1,000
6. Alpha Omega Alpha Carolyn L. Kuckein Student Research Fellowship, “Prevalence of Inflammatory Myositis in Patients with Pediatric Systemic Lupus Erythematosus in Alabama”, PI: Jessica Record, Mentor: Cron, 2010, \$5,000 [<http://tv.hs.uab.edu/synopsis/latest.html>]
7. UAB T35 Summer Research Program, “A Study on the Influence of FOXP3-Expressing Tregs on HIV-1 Infection of FOXP3-Negative HIV-1 Infected CD4 T Cells in Co-culture”, PI: Lindsey Harbin, Mentor: Cron, 2010, \$1,650
8. UAB Immunology, Autoimmunity & Transplantation Steering Committee, “Intestinal Flora in the Pathogenesis of Juvenile Spondyloarthritis”, Principal Investigator: Dr. Matthew Stoll, Mentor: Cron, 2012, \$30,000
9. Creative and Novel Ideas in HIV Research (National Institutes of Health Center for AIDS Research), “Role of FoxP3 in Blocking Transcriptional Activation of HIV-1 LTR in Treg Cells”, Principal Investigator: Dr. Robert Lowe, Mentor: Cron, 2012-2014, \$300,000
10. UAB Pediatrics Children’s Health Foundation/Kaul Pediatric Research Institute, “Gene Replacement Therapy for the Treatment of X-Linked Hyper-IgM Syndrome”, Principal Investigator: Dr. Robert Lowe, Mentor: Cron, 2012-2014, \$60,000

11. UAB Pediatrics CHRC, “Epigenetic Regulation of the CD154 Gene in Children and Adults with Lupus”, Principal Investigator: Dr. Robert Lowe, Mentor: Cron, 2012-2015, \$300,000
12. Arthritis Foundation, “Epigenetic Regulation of CD154 Gene Expression”, Principal Investigator: Dr. Robert Lowe, Mentor: Cron, 2012-2014, \$100,000
13. UAB/CCTS, “Antigen Discovery within the Gut Microbiome in Pediatric and Adult Spondyloarthritis”, Principal Investigator: Dr. Matthew Stoll, Mentor: Cron, 2013-2014, \$60,000
14. Kaul Pediatric Research Institute, “Identification of Target Antigens in Children with Spondyloarthritis”, Principal Investigator: Dr. Matthew Stoll, Mentor: Cron, 2013-2015, \$60,000
15. UAB CFAR “Basic Mechanisms in AIDS Pathogenesis” T32 training grant [5T32AI007493-18], “The Mechanism by Which Regulatory T Cells Induce M1 to M2 Polarization in Human Monocyte-Derived Macrophages in HIV-1 Infection”, Graduate Student: Tanya Robinson, Mentor: Cron, 2012-2015, \$76,500
16. Ruth L. Kirschstein National Research Service Award (NRSA)/NIH loan repayment program, Principal Investigator: Dr. Robert Lowe, Mentor: Cron, 2013-2015, \$65,000
17. Friends of CARRA pilot grant, “Enteric Flora in Newly Diagnosed Spondyloarthritis: A Collaborative Study”, Principal Investigator: Dr. Matthew Stoll, Mentor: Cron, 2013-2015, \$50,000
18. Michael J. Fox Foundation target validation grant, “Validation of the Class II MHC transactivator (CIITA) in models of PD”, Principal Investigator: Dr. Ashley S. Harms, Mentor: Cron, 2013-2015, \$250,000
19. American College of Rheumatology Research and Education Foundation, “Exploration of the Gut Microbiome in Spondyloarthritis”, Principal Investigator: Dr. Matthew Stoll, Mentor: Cron, 2013-2016, \$375,000
20. NIH/NIEHS R21, “Interactions between AHR ligands and the intestinal microbiota in murine arthritis”, Principal Investigator: Dr. Matthew Stoll, Mentor: Cron, 2014-2017, \$275,000

OTHER:

ORGANIZING ROLES IN SCIENTIFIC MEETINGS:

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

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

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

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

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148. Stoll, M.L. Morrow, C.D., Weiss, P.F., Weiss, J.A., Maynard, C.L., Duck, L.W., Elson, C.O., Zhang, M., **Cron, R.Q.**, Lefkowitz, E.J., Kumar, R., and Schoeb, T.R. 2017. *Akkermansia Muciniphila* may be permissive to arthritis in the K/BxN mouse model of arthritis (abstract). *Arthritis Rheumatol.* 69 (suppl ?):S??. [PRSYM meeting, Houston, TX]
149. Horne, A., Minoia, F., Bovis, F., Davi, S., Pal, P., Anton, J., Stein, K., Encisco, S., Kasapcopur, O., Jeng, M., Maritsi, D., **Cron, R.Q.**, and Ravelli, A. 2017. Factors associated with etoposide usage in children with macrophage activation syndrome complicating systemic juvenile idiopathic arthritis (abstract). *Arthritis Rheumatol.* 69 (suppl ?):S??. [PRSYM meeting, Houston, TX]

150. Tolend, M., Junhasavasdiku, T., Abramowicz, S., Appenzeller, S., **Cron, R.Q.**, Clemente, E.J., Jaremko, J.L., von Kalle, T., Kellenberger, C.J., Koos, B., Meyers, A.B., Miller, E., Panwar, J., Patel, H., Resnick, C., van Rossum, M.A., Saurenmann, R.K., Shelmerdine, S.C., Spiegel, L., Stimec, J., Twilt, M., Tzaribachev, N., and Doria, A.S. 2017. The use of a discrete choice experiment to determine relative importance weights in scoring of magnetic resonance imaging of temporomandibular joints in juvenile idiopathic arthritis (abstract). [European Society of Pediatric Radiology annual meeting, Davos, Switzerland]
151. Minoia, F., Bovis, F., Davi, S., Horne, A., Fischbach, M., Frosch, M., Huber, A., Jelusic-Drazic, M., Sawhney, S., McCurdy, D., Silva, C.A., Rigante, D., Ruperto, N., Martini, A., **Cron, R.Q.**, and Ravelli, A. 2017. A diagnostic score for early detection of macrophage activation syndrome in systemic juvenile idiopathic arthritis based on an improper linear model method. *Pediatr. Rheumatol. Online J.* ??(Suppl ?):??. [PReS annual meeting, Athens, Greece]
152. Stoll, M.L., Weiss, P.F., Weiss, J.E., Nigrovic, P.A., Edelheit, B.S., Bridges, S.L., Danila, M., Spencer, C.H., Punaro, M., Schikler, K., Reiff, A., Kumar, R., **Cron, R.Q.**, Morrow, C.D., and Lefkowitz, E.J. 2017. Children with treatment-naïve enthesitis-related arthritis have decreased fecal abundance of *Faecalibacterium prausnitzii* A2-165 and *Bacteroides fragilis*: a multi-center collaborative study. *Arthritis Rheumatol.* 68 (suppl 10):S?? [ACR 2017, San Diego, CA]
153. Eloiseily, E.M., Minoia, F., Beukelman, T., Ravelli, A., and **Cron, R.Q.** 2017. The ferritin to erythrocyte sedimentation rate ratio identifies macrophage activation syndrome. *Arthritis Rheumatol.* 68 (suppl 10):S?? [ACR 2017, San Diego, CA]
154. Minoia, F., Bovis, F., Davi, S., Fischbach, M., Frosch, M., Huber, A., Jelusic-Drazic, M., Sawhney, S., McCurdy, D., Silva, C.A., Rigante, D., Ruperto, N., Martini, A., **Cron, R.Q.**, and Ravelli, A. 2017. The MS score: a diagnostic score for early detection of macrophage activation syndrome in systemic juvenile idiopathic arthritis. *Arthritis Rheumatol.* 68 (suppl 10):S?? [ACR 2017, San Diego, CA]
155. Reed, A.B., Vinod, S.S., Eloiseily, E.M., Maxwell, J., Stoll, M.L., and **Cron, R.Q.** 2017. Pediatric rheumatology infusion center: report on therapeutic protocols and infusion reactions over 3 years. *Arthritis Rheumatol.* 68 (suppl 10):S?? [ACR 2017, San Diego, CA]

Oral Presentations by Dr. Cron:

156. **Cron, R.**, Pardoll, D., Sachs, D.H., and Bluestone, J.A. 1987. Activation of peripheral T3+, Lyt2-, L3T4- T-cells using anti-T3 mAb (abstract). *Fed. Proc.* 46:1026. [FASEB Meeting, Washington, D.C.]
157. **Cron, R.Q.**, Bort, S.J., Schubert, L.A., and Lewis, D.B. 1998. Decreased NFAT1: a potential mechanism for decreased cytokine production by neonatal T cells (abstract). *Pediatr. Res.* 43:7. [Pediatric Academic Societies' Annual Meeting, New Orleans, LA]
158. **Cron, R.Q.**, Schubert, L.A., and Lewis, D.B. 1998. Identification of an enhancer element located downstream of the CD40-ligand gene (abstract). *Arthritis Rheum.* 41 (suppl 9):S235. [American College of Rheumatology Annual Scientific Meeting, San Diego, CA]

159. **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.
160. **Cron, R.Q.**, Genin, A., and Brunner, M. 2001. Regulation of CD154 in systemic lupus erythematosus (abstract). *Ann. Rheum. Dis.* 60 (suppl 1):A33-34. [EULAR meeting, Prague, Czech Republic]
161. **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.
162. **Cron, R.Q.**, and Brunner, M. 2002. Identification of a novel GATA-regulated CD154 transcriptional enhancer (abstract). SLE: Targets for New Therapeutics. Bethesda, MD.
163. **Cron, R.Q.**, Genin, A., and Brunner, M. 2002. Identification of a novel GATA-regulated CD154 transcriptional enhancer (abstract). Experimental Biology meeting. New Orleans, LA. *FASEB J.* 16:A694. [1 citation]
164. **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 1):8.
165. **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.
166. **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.
167. **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*.
168. **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.
169. **Cron, R.Q.**, Centola, M., Frank, B., Dozmoroz, I., Genin, A., and Torgerson, T.R. 2006. Inhibition of NFAT2 expression by FOXP3 (abstract). Keystone Symposia – Lymphocyte Activation and Signaling, Steamboat, CO.
170. **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.
171. **Cron, R.Q.**, Wells, A.D., and Torgerson, T.R. 2008. Inhibition of NFAT2 expression by FOXP3 (abstract). Experimental Biology Annual Scientific Meeting. San Diego, CA. *Faseb J.* 22 (suppl 1):848.
172. **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.* ??
173. **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]
174. **Cron, R.Q.**, and Zhang, M. 2013. Blurring of the distinction between hemophagocytic lymphohistiocytosis and macrophage activation syndrome (abstract). *J. Immunol.* 190:175.1. [AAI Meeting, Honolulu, HI]
 175. **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]
 176. **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]
 177. Zhang, M., Bracaglia, C., Prencipe, G., Bemrich-Stolz, C.J., Beukelman, T., Dimmitt, R.A., Chatham, W.W., Zhang, K., Li, H., Walter, M.R., De Benedetti, F., Grom, A.A., and **Cron, R.Q.** 2016. A heterozygous *RAB27A* mutation causes delayed cytolytic granule polarization and hemophagocytic lymphohistiocytosis in 2 unrelated teenagers (abstract). *J. Immunol.* (suppl 1):193.1. [AAI Meeting, Seattle, WA] [1 citation]

Oral Presentations by Co-Authors:

178. 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]
179. 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]
180. 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]
181. 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]
182. 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.
183. 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.
184. Behrens, E., Beukelman, T., Tustin, N., **Cron, R.Q.**, and Pessler, F. 2005. Secondary hemophagocytic lymphohistiocytosis: clinical and laboratory features in a recent cohort (abstract). *Clin Immunol.* 116:298-299.
185. Doris, B., Parks, J., Rankin, C., Schonbeck, U., **Cron, R.**, St. Clair, R., and Mishra, N. 2005. Histone deacetylase inhibitors may prevent atherosclerosis while treating lupus (abstract). *Arthritis Rheum.* 52 (suppl 9):S698. [1 citation]

186. Pessler, F., Dai, L., Einhorn, E., **Cron, R.Q.**, and Schumacher, H.R. 2006. Over-expression of the calcium-calcieneurin-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*.
187. 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*.
188. 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*.
189. Davi, S., Lattanzi, B., Rosina, S., Demirk, E., Ruperto, N., Martini, A., **Cron, R.Q.**, and Ravelli, A. 2011. Sensitivity and specificity of current diagnostic guidelines in children with macrophage syndrome complicating systemic juvenile idiopathic arthritis (abstract). *Pediatr. Rheumatol. Online J.* 9 (suppl 1):P101. [PREs Congress, Bruges, Belgium] [presented as an oral presentation by Dr. Davi] **[4 citations]**
190. 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]
191. 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]
192. 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]
193. 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]
194. 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]
195. 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]

196. 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]
197. 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]
198. 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 Meeting, Belgrade, Serbia] [presented as an oral presentation by Dr. Ravelli] **[7 citations]**
199. Minoia, F., Horne, A., Bovis F., Davi, S., Pagani, L., Espada, G., Gao, Y-j., Insalaco, A., Lehmberg, K., Sanner, H., Shenoi, S., Weitzman, S., Ruperto, N., Martini, A., **Cron, R.Q.**, and Ravelli, A. 2016. Development and initial validation of the “MH score”, a new diagnostic tool that differentiates primary hemophagocytic lymphohistiocytosis from macrophage activation syndrome (abstract). *Arthritis Rheumatol.* 68 (suppl 10):S??. [ACR 2016, Washington, DC]

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
American Journal of the Medical Sciences
Archives of Disease in Childhood
Archives of Pediatric & Adolescent Medicine
Arthritis
Arthritis & Rheumatism
Arthritis & Rheumatology
Arthritis Care & Research
Arthritis Research & Therapy
Blood
Blood and Lymphatic Cancer: Targets and Therapy
BMC Immunology
BMC Medicine
Clinical and Developmental Immunology
Clinical and Diagnostic Laboratory Immunology
Clinical Drug Investigation
Clinical and Experimental Immunology
Clinical and Experimental Rheumatology
Clinical and Vaccine Immunology
Clinical Immunology
Clinical Investigation
Clinical Neurology and Neurosurgery
Clinical Rheumatology
Clinics and Practice
European Journal of Immunology
European Journal of Oral Sciences
European Journal of Pediatrics
Expert Opinion on Biological Therapy

Expert Opinion on Orphan Drugs
Expert Opinion on Pharmacotherapy
Expert Review of Clinical Immunology
F1000 Faculty Reviews
FASEB Journal
Frontiers in Pharmacology
Future Rheumatology
Gene Therapy
Genes and Immunity
Haematologica
Hematological Oncology
Human Immunology
Immunological Investigations
Immunology
Infection and Immunity
Inflammation
International Journal of Immunogenetics
International Journal of Inflammation
International Journal of Rheumatology
Italian Journal of Pediatrics
JAMA Pediatrics
Journal of Allergy and Clinical Immunology
Journal of Biological Chemistry
Journal of Blood Research and Hematologic Diseases
Journal of Clinical Immunology
Journal of Clinical Investigation
Journal of Clinical Investigation Insight
Journal of Clinical Rheumatology
Journal of Immunology
Journal of Infection and Public Health
Journal of Leukocyte Biology
Journal of Pediatric Hematology/Oncology
Journal of Pediatric Intensive Care
Journal of Pediatrics
Journal of Perinatology
Journal of Rheumatology
Lancet
MedicalScience
Molecular and Cellular Biology
Molecular Diagnosis & Therapy
Nature Reviews Rheumatology
New England Journal of Medicine
Pediatric Drugs
Pediatric Nephrology

Pediatric Research
Pediatric Rheumatology
Pediatric Rheumatology Online Journal
Pediatrics
Pediatrics International
Pharmaceuticals
PLoS One
PLoS Pathogens
Rheumatology
Scandinavian Journal of Rheumatology
Scientific Reports
Seminars in Arthritis and Rheumatism
Translational Research
Virology
Virology Journal
Virus Research
World Journal of Pediatrics

BOOK PROPOSAL REVIEWER:

Pediatrics in Systemic Autoimmune Diseases (Elsevier publisher)

MISCELLANEOUS/VOLUNTEER WORK:

1. American Board of Pediatrics, General Pediatrics Board, question writer, 1995-2006
2. American Board of Pediatrics, Pediatric Rheumatology Board, question writer, 1999-2006
3. Camp JRA – camp physician/co-medical director, Millville, PA, July 2000-2007
4. Interviewee for West Chester University undergraduate course, History 445, April 2001
5. Assisting Editor/Medical Advisor for *Families in Touch* newsletter, a publication of the American Juvenile Arthritis Organization, 2002-present
6. Medical Advisor for *Kids Get Arthritis, Too*, a publication of the Arthritis Foundation, 2003
7. Invited speaker/guest, Juvenile Myositis Fund Raiser, Berretone Family Golf Outing/Auction, September 2003-2006
8. Speaker, “Genetics and Juvenile Arthritis” - American Juvenile Arthritis Organization (AJAO) National Conference, Hershey, PA, July 2007
9. Speaker, JIA Saturday, Arthritis Foundation sponsored outing for families of children with rheumatic diseases, Birmingham, AL, September 2007
10. Speaker, Arthritis Foundation, Jingle Bell Run/Walk for Arthritis, Kick-off Luncheon, St. Vincent’s Hospital, Birmingham, AL, October 2007
11. Non-paid consultant to book author, Kelly Rouba, for a book on juvenile arthritis, “Juvenile Arthritis: The Ultimate Teen Guide”, from Scarecrow Press as part of the “It Happened to Me” series, 2008
12. Camp MASH – camp physician, Mobile, AL, August 2008-present
13. Interviewee for University of Alabama, education graduate student, Ashley Perry, for course, BCE 542, Medical Aspects of Disabilities, October 2008



14. Speaker, "Cars, Keys and a Cure" Birmingham car show gala fund raiser for Autism and Arthritis, November 2008
15. Speaker, JIA Saturday, Arthritis Foundation sponsored outing for families of children with rheumatic diseases, Huntsville, AL, February 2009, 2010
16. Arthritis Foundation
 - Board of Directors, Alabama Chapter (2009-2010)
 - Alabama Advisory Board (2010-2013)
 - Board of Directors, Southeast Region (2010-2013)
17. Medical advisor to Jacksonville State University student, Tamara Tellis, for feature article in the COM 410 course, Media Features, 2010
18. Speaker, "JIA & Jaw Issues" - American Juvenile Arthritis Organization (AJAO) National Conference, Philadelphia, PA, July 2010
19. Speaker, "JIA & Jaw Issues" - American Juvenile Arthritis Organization (AJAO) National Conference, Crystal City, VA, July 2011
20. Speaker, Arthritis Foundation, JIA Saturday, Homewood, AL, August 2011
21. Speaker, "Pediatric Sjogren Disease" - Birmingham area Sjogren Support Group, National Sjogren Foundation, Birmingham, AL, March 2012
22. Speaker, "Temporomandibular Joint Arthritis (TMJ) in Childhood Arthritis" -American Juvenile Arthritis Organization (AJAO) National Conference, St. Louis, MO, July 2012
23. Speaker, Arthritis Foundation, JIA Sunday, Montgomery, AL, October 2012
24. Founder & Board Member, Rheum4yAL (2013-present)
25. Interviewee, "Prescribing patterns in sJIA", Alka Bhatt, Rutgers University pharmacy student , 2015
26. Non-paid consultant to book author, Christine Schwab (<http://www.christineschwab.com/cswp/>), for a book on juvenile arthritis, 2016
27. Speaker, "Systemic Juvenile Idiopathic Arthritis and Autoinflammation – We’ve Come a Long Way, Baby" - Juvenile Arthritis National Conference, Philadelphia, PA, 2016
28. Medical Advisor for *Kids Get Arthritis, Too*, a publication of the Arthritis Foundation, 2016
29. Speaker, on college application process, Birmingham Math Academy, Birmingham, AL 2017

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

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