

# **CARVER COLLEGE OF MEDICINE CURRICULUM VITAE**

**Polly J. Ferguson, M.D.**

**July 2023**

## **I. EDUCATIONAL AND PROFESSIONAL HISTORY**

### **A. EDUCATION**

1986	B.S.	University of Iowa Iowa City, Iowa
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1990	M.D.	University of Iowa Iowa City, Iowa
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### **CERTIFICATION**

1990	Federal LICENSURE Examination
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1993, 2000, 2007	ABP-General Pediatrics
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1996, 2002, 2010	ABP-Pediatric Rheumatology
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### **LICENSURE**

1996 - 2000	Virginia License
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2000 - 2005	Alabama License
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2002 - pres	Iowa License
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## **B. PROFESSIONAL AND ACADEMIC POSITIONS HELD**

### **POST GRADUATE TRAINING**

Pediatric Intern	1990-1991	University of Virginia Charlottesville, Virginia
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Pediatric Resident	1991-1993	University of Virginia Charlottesville, Virginia
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Pediatric Immunology & Rheumatology Fellow	1993-1997	University of Virginia Charlottesville, Virginia
Post-Doctoral Research Fellow	1997-1999	University of Virginia Charlottesville, Virginia
Research Associate (50%) Pediatric Fellow (50%)	1999-2000	University of Virginia Charlottesville, Virginia

### **FACULTY APPOINTMENTS**

Assistant Professor, Pediatrics	2000-2002	University of Alabama at Birmingham Birmingham, Alabama
Assistant Professor, Pediatrics	2002-2011	University of Iowa Iowa City, IA
Director, Pediatric Rheumatology (Pediatric Allergy, Immunology added in 2019)	2007-present	University of Iowa
Associate Professor, Pediatrics	2011-2016	University of Iowa
Tenure	2011	University of Iowa
UI Inflammation Program	2015 - present	University of Iowa
Professor, Pediatrics	2016 - present	University of Iowa
Chair Transition Assistant	09/2021-12/2022	University of Iowa
Executive Vice Chair, Pediatrics	2022- present	University of Iowa

### **C. HONORS, AWARDS, RECOGNITIONS, OUTSTANDING ACHIEVEMENTS**

1985	Phi Beta Kappa (elected junior year)	University of Iowa
1985	Steven's Memorial Scholarship (Phi Beta Kappa)	Iowa
1994	University of Virginia Children's Medical Center Research Grant	
1996-97	Fellow, Diabetes and Hormone Action Training Grant (UVA)	
1996-97	University of Virginia Children's Medical Center Research Grant	

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1997-99	Juvenile Diabetes Foundation Post-Doctoral Fellowship Grant (UVA)
1997	Kendig Pediatric Research Award (University of Virginia)
1998	University of Virginia Children's Medical Center Research Grant
1999	Sandra Tate Russell Memorial Research Award (UVA)
2003	National Institutes of Health Pediatric Research Loan Repayment Grant
2004	National Institutes of Health Loan Repayment Grant
2006	Society for Pediatric Research
2007	American College of Rheumatology/European Union League Against Rheumatism (ACR/EULAR) International Academic Exchange Program (1 of 3 ACR members chosen)
2008	Nominated for the 2008 ACR Henry Kunkel Young Investigator Award
2009 - pres	Best Doctors in America (Pediatric Rheumatology)
2010	Healthcare Hero (Corridor Business Journal, physician category)
2010	Leadership Recognition Award, Department of Pediatrics and Carver College of Medicine, University of Iowa
2017	Member, American Pediatric Society
2017	Inaugural Award: Castle Connolly Exceptional Women in Medicine
2017	NIH Board of Scientific Counselors, NIAID and NIAMS, <i>ad hoc</i>
2017-2018	Kate Daum Professorship
2018- 2023	NIH Board of Scientific Counselors, NIAID (5 yr term); co-chair x 2 yrs.
2018- pres	Marjorie K. Lamb Professorship
2019	American College of Rheumatology Distinguished Service Award

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### **II. TEACHING**

#### **Patient/Lay Education**

- 03/01 “Spring Break Out” (Alabama Chapter of the Arthritis Foundation), Birmingham, AL, featured speaker: “New treatments for Juvenile Rheumatoid Arthritis”
- 07/01 Camp M\*A\*S\*H (for children with rheumatologic disorders) Arthritis Foundation Alabama Chapter. Birmingham, AL. Group leader, two panel discussions, featured speaker.
- 03/03 KXIC Radio Interview for UIHC Today: “New Treatments for Juvenile Arthritis”
- 04/03 Juvenile Arthritis Awareness Conference (Iowa Chapter of the Arthritis Foundation) featured speaker.
- 10/03 Camp M\*A\*S\*H, Arthritis Foundation Alabama Chapter, Mobile, AL. Featured speaker.
- 01/04 WBHM, National Public Radio Birmingham, AL affiliate: “Shortage of Pediatric Rheumatologists”
- 02/04 Get Away for JRA, Arthritis Foundation Iowa Chapter, Des Moines, IA. Featured speaker.
- 03/04 KXIC Radio Interview for UIHC Today: “Juvenile Arthritis Awareness Week”
- 04/04 KXIC Radio Interview for UIHC Today: “Juvenile Arthritis”
- 05/04 Health Beat Radio Interview with Dean Borg: “May is National Arthritis Month”
- 09/04 Arthritis Foundation’s Cedar Rapids Arthritis Walk. Medical Ambassador.
- 10/04 Arthritis Foundation, Iowa Chapter, Sleepy Hollow Juvenile Arthritis Event, Des Moines, IA
- 10/04 Camp M\*A\*S\*H, Arthritis Foundation Alabama Chapter, Mobile, AL. Featured speaker.
- 04/05 Get Away for JRA, Arthritis Foundation Iowa Chapter, Des Moines, IA. Featured speaker.

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- 05/05 KXIC Radio Interview for UI Health Care Today: "Juvenile Arthritis"
- 08/05 Camp M\*A\*S\*H, Arthritis Foundation Alabama Chapter, Mobile, AL. Featured speaker.
- 10/05 Arthritis Foundation, Iowa Chapter, "Science to the MAX" Juvenile Arthritis Family Event. Event planning and featured speaker.
- 08/06 Camp M\*A\*S\*H, Arthritis Foundation Alabama Chapter, Mobile, AL. Featured speaker.
- 08/07 Camp M\*A\*S\*H, Arthritis Foundation Alabama Chapter, Mobile, AL. Featured speaker; camp doctor.
- 08/08 Camp M\*A\*S\*H, Arthritis Foundation Alabama Chapter, Mobile, AL. Featured speaker; camp doctor.
- 07/09 Camp M\*A\*S\*H, Arthritis Foundation Alabama Chapter, Mobile, AL. Featured speaker; camp doctor
- 03/10 KXIC Radio Interview for UI Health Care Today: "Pediatric Rheumatology"
- 07/13 National Juvenile Arthritis Conference sponsored by the Arthritis Foundation. Featured speaker on research in pediatric rheumatology. July 2013, Anaheim, CA

### **High School Research and/or Job Shadowing**

- |       |               |                                  |
|-------|---------------|----------------------------------|
| 01/98 | Jessica Cross | Job Shadowing (Medical Genetics) |
| 2006  | Erin Sullivan | Murray Summer Research Program   |

### **Undergraduate Job Shadowing**

- |       |                    |
|-------|--------------------|
| 11/07 | Whitney M Leverich |
| 01/11 | Madeline Knott     |
| 04/11 | Nikki Goldman      |
| 09/14 | Russell Valentin   |

### **Undergraduate Research Supervision**

- |           |   |
|-----------|---|
| 1993-1995 | Kirsten Greene                                |
| 1995-1996 | Kathryn Lopez, MD (Unknown practice location) |

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- 2006 Sara Francis, PhD; UI SUMR summer research program for prospective MSTP students [graduated with MD, PhD University of Iowa] (Current Position: Pediatric Resident, Case Western)
- 2015-2016 Rory Metcalf – UI Undergraduate Honors Research Program (Current position: University of Iowa Medical Student)
- 2015 – 2016 Caleb Wassink, UI undergraduate
- 2016- 2018 Cassie Wassink, UI post-baccalaureate student (Current position: University of Iowa Medical Student)
- 2018 Jessica Knobbe, UI SUMR program (Undergrad, Univ of Oklahoma)
- 2021 Ben Madden UI undergraduate

### **Post-baccalaureate**

- 2022-2023 Swetha Ramachandran (current position – medical student 2023)

### **Medical Student Research Mentor (Summer Research Fellowships)**

- |            |                      |   |
|------------|----------------------|---|
| 2004, 2005 | Luis Ochoa           | Role of <i>LPIN2</i> in psoriasis<br>Immunologic abnormalities in the cmo mouse<br>(Current: Assistant Prof, Peds Cardiology, University of Iowa) |
| 2004       | Amar Mahgoub         | Genetics of murine chronic multifocal osteomyelitis<br>(Current: Assistant Prof, Peds GI, University of Minnesota)                                |
| 2006       | Roya Ijadi-Maghsoodi | Role of <i>LPIN2</i> and <i>PSTPIP2</i> in sporadic CRMO<br>(Current: Assistant Prof, Pediatric and Adolescent Psychiatry, UCLA)                  |
| 2006       | Leah Muhle           | Role of <i>LPIN2</i> in psoriasis<br>(Current: Psychiatry, private practice)  |
| 2016       | Rachel Ullrich       | Pstpip2 interacting partners  |

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(Current: Pediatric Resident, Children's  
Hospital of Wisconsin, Milwaukee, WI)

### **Medical Student Research Distinction Track Mentor (4-year research mentorship)**

2004-2008 Luis Ochoa, MD; Graduated with Research Distinction, May 2008  
2016- 2019 Rachel Ullrich, MD; Graduated with Research Distinction, May 2019

### **Medical Student Research Elective**

07/08 M4 Research Elective co-mentor: Shawn Sato. Radiologic and clinical presentations of CRMO.

04/20 MSTP M3 Research Elective mentor: Mathew Grunewald. Dissecting genetically driven mechanisms of autoinflammatory disease.

### **Medical Student Clinical Mentor**

07/01 UAB Scholar's Week: Alyce Oliver, PhD, 4th year medical student. "Pediatric Rheumatology"

Clinical Connections Program for MSTP students: "Pediatric Rheumatology"  
Attend pediatric rheumatology clinic (1/2 day) on > or = 4 occasions to learn about the pathogenesis of pediatric rheumatologic disorders and to explore pediatric rheumatology as a possible career.

2005 Becky Benson  
2010 Sara (Francis) Reed  
2012 Gwendolyn M. Clay – [also did M4 Peds Rheum elective in 2015]  
2013 Dortehea "Lori" Wheeler  
2014 Michael Zhang  
2014 Matthew Grunewald  
2018 Shakoora Sabree

2013 – 2014: Longitudinal Clinical Mentorship Preceptor for Michael Dunlay  
09/15: M4 Pediatric Rheumatology Elective – Gwen Clay

### **Medical Student (MSTP) Career Mentor**

2020- present Shakoora Sabree, University of Iowa MSTP student

### **Pediatric Resident Mentor**

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07/07- 07/10	Rebecca Benson, MD, PhD
07/11- 0/6/14	Lyndsay Harshmann (Physician Scientist Training Pathway)
01/21-01/21	Jeremy Sandgren, MD, PhD (PSTP rotation in lab 3 weeks)

### **Research Elective Internal Medicine Residents (one month in lab)**

2010	Abha Goyal, MD
2010	Lindsay Orris, MD
2010	Amanda Steele, MD

### **Pediatric Fellowship Scholarship Oversight Committee**

2005-2008	Marie-Ellen Sarvida, MD; Hematology/Oncology Fellow
2011-2014	Luis Ochoa, MD; Pediatric Cardiology Fellow
2012-2015	Govinda Paudel, MD; Pediatric Cardiology Fellow
2018-2020	Catherina Pinnaro, MD; Pediatric Endocrinology Fellow
2019-2021	Neeraja Swaminathan, MD; Pediatric Heme/Onc Fellow
2019-2021	Rhanda Darville, MD; Pediatric Gastroenterology Fellow
2023- pres	Benjamin Palmer, MD; Pediatric Endocrinology Fellow

### **Fellowship/Post Doctoral Research Mentor**

2007–2009	Firas Rabi, MD (Fellowship research co-mentor with Dr. El-Shanti) (Current: Director Pediatric Critical Care, Dubai, UAE)
2011-2012	Monica Sandu (Budianu), MD [Current: Scripps, LaJolla, CA]
2012-2013	Manisha Sharma, MD [Current: Fresno, CA]
2019- 2021	Rhanda Darville, MD
2019 - 2021	Barun Poudel, PhD

### **Graduate Student Supervision**

2003 – 2008	Shilpi Verma, PhD (Thesis Committee Member) Interdisciplinary Immunology Graduate Program, University of Iowa
2005 – 2011	Carla-Maria Alexander, PhD (Thesis Committee Member) Interdisciplinary Immunology Graduate Program, University of Iowa

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2010- 2011	Beichen Chen, MS (Master's Thesis Committee Member) Biology Program, University of Iowa
2012 - 2016	Allison Cox, PhD (Doctoral student in Bassuk/Ferguson lab; Thesis Committee Member & Co-Mentor): 'Use of whole exome sequencing to delineate the genetic basis of CRMO'. PhD bestowed Dec 2016. Winner of the Outstanding Dissertation in the Genetics Program and the 2017 Rex Montgomery Dissertation Prize from the University of Iowa Graduate College. (Current: Fellow, Molecular Genetics Laboratory program, Yale University, New Haven, CT)
2016 - 2021	Marcus Toral (Thesis Committee Member) Molecular & Cellular Biology Program, Univ of Iowa
2016 - 2021	Kellie Schaefer (Thesis Committee Member) Molecular & Cellular Biology Program, Univ of Iowa
2018- 2021	Lucy Evans (Thesis Committee Member) Molecular & Cellular Biology Program, Univ of Iowa
2019- 2020	Lindsay Agostinelli (Thesis Committee Member) Neuroscience Program, University of Iowa
2019-2022	Shakoora Sabree (Thesis Committee Member) Interdisciplinary Program [Immunology], U of Iowa
2020-2021	Lalita Mazgaeen (Comprehensive Exam Committee) Toxicology Program, University of Iowa
2023	Sammy Santiago Valle (Comprehensive Exam Committee)

### **Medical Student Education**

- 05/04 Foundations of Clinical Practice IV, Rheumatology Small Group Session,  
"Introduction to Rheumatology". 90-minute session.
- 09/04 UI Medical Student Research Club: "The Unique Opportunities of the  
Physician Scientist"
- 04/05 Foundations of Clinical Practice IV, Rheumatology Small Group Session  
"Introduction to Rheumatology" Two, 90 minutes sessions (4/27 & 4/28)

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- 04/07 Foundations of Clinical Practice IV, Rheumatology Small Group Session  
“Introduction to Rheumatology” Two, 90 minutes sessions (4/21)
- 05/07 Foundations of Clinical Practice IV, Rheumatology Small Group Session  
“Rheumatology Case-Based Wrap Up” One, 120 minutes sessions (5/4)
- 05/08 Foundations of Clinical Practice IV, Rheumatology Small Group Session  
“Rheumatology Case-Based Wrap Up” Two, 120 minutes sessions (5/5)
- 04/11 Hot Topics M1 Immunology: “Hereditary Autoinflammatory Bone Disorders”
- 09/16 Plenary Speaker for Summer Medical Student Research Banquet:  
“Autoinflammatory Bone Disease”.
- 2016 - present Early Clinical Experiences (fall and spring semesters)

### **Graduate (MD/PhD & PhD) Student Education**

- 09/98 Clinical Correlation: “The Immunology of Mycobacteria” UVA Medical  
Microbiology
- 04/99 “Genetic Control of Autoimmunity”, UVA Molecular Medicine for MD/PhD  
program
- 05/99 “Genetic Control of Autoimmunity”, UVA Molecular Medicine for MD/PhD  
program
- 10/09 “Development/relevance of genetically modified animals”, Lecture as part of  
the Translational Histopathology Course
- 11/10 “Application of Genetically Modified Animals”, Lecture as part of the  
Translational Histopathology Course
- 06/11 “Autoinflammatory Bone Disorders”; Lecture to undergrads and MSTP  
students as part of the summer research series
- 11/11 “Autoinflammatory Disorders: Application of Genetically Modified Animals”,  
Lecture as part of the Translational Histopathology Course
- 07/20 “Mentoring” MSTP Analyzing and Presenting Medical Literature Series (2<sup>nd</sup>  
year students) – 1 hour session – led in 2020, 2021 and 2022.

**Pediatric Resident Education -Didactic**

- 02/96 UVA Pediatric Noon Conference: "Systemic Onset Juvenile Rheumatoid Arthritis"
- 06/96 UVA Pediatric Noon Conference: "Clinical Manifestations of Systemic Lupus Erythematosus"
- 01/01 UAB Pediatric Noon Conference: "Clinical Manifestations of Systemic Lupus Erythematosus"
- 02/01 UAB Pediatric Noon Conference: "Juvenile Dermatomyositis"
- 05/01 UAB Pediatric Noon Conference: "Henoch-Schönlein Purpura"
- 08/01 UAB Pediatric Noon Conference: "Positive ANA: What does it mean?"
- 10/01 UAB Med/Peds Noon Conference: "Differential Diagnosis of Childhood Arthritis"
- 11/01 UAB Pediatric Noon Conference: "Juvenile Rheumatoid Arthritis"
- 01/02 UAB Pediatric Noon Conference: "Periodic Fever"
- 06/02 UAB Pediatric Noon Conference: "Non-Rheumatic Causes of Joint Complaints"
- 09/02 UI Pediatric Resident Core Curriculum Conference: "JRA"
- 10/02 UI Pediatric Resident Core Curriculum Conference: "Non-Rheumatologic Disorders Presenting with Rheumatologic Manifestations"
- 01/03 UI Pediatric Resident Core Curriculum Conference: "Pediatric SLE"
- 03/03 UI Pediatric Resident Case Conference: "15 year old with Renal Failure: What is the Diagnosis?" presented by Dr. Sita Canady, Pediatric Resident. P. Ferguson, C. Porter, M. Abu-Hasan, S. Sethi, Faculty.
- 05/03 UI Pediatric Resident Core Curriculum Conference: "Juvenile Dermatomyositis"

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- 05/03 Pediatric Therapeutics and Toxicology Conference: "Biologic Agents in the Treatment of Childhood Inflammatory Diseases"
- 12/04 UI Pediatric Resident Core Curriculum Conference: "Henoch Schönlein Purpura"
- 1/04 UI Pediatric Resident Core Curriculum Conference: "Interpretation of a positive ANA test"
- 02/04 UI Pediatric Resident Core Curriculum Conference: "Juvenile Idiopathic Arthritis"
- 03/04 UI Pediatric Resident Core Curriculum Conference: "Rheumatologic Manifestations of Non-Rheumatologic Diseases"
- 03/04 UI Pediatric Resident Core Curriculum Conference: "Periodic Fever Syndromes"
- 05/04 UI Pediatric Resident Case Conference: "ANCA Positive Vasculitis", presented by Dr. Adam Paul. Faculty Advisor: P. Ferguson.
- 10/04 UI Pediatric Resident Core Curriculum Conference: "Systemic Lupus Erythematosus"
- 11/04 UI Pediatric Resident Core Curriculum Conference: "Juvenile Dermatomyositis"
- 02/05 UI Pediatric Resident Core Curriculum Conference: "How to Interpret an Antinuclear Antibody Test"
- 04/05 UI Pediatric Resident Core Curriculum Conference: "Juvenile Arthritis"
- 06/05 UI Pediatric Resident Core Curriculum Conference: "Henoch-Schonlein Purpura"
- 10/05 UI Pediatric Resident Core Curriculum Conference: "Rheumatologic Manifestations of Non-Rheumatologic Diseases"
- 10/05 UI Pediatric Resident Core Curriculum Conference: "Autoinflammatory and Periodic Fever Syndromes"
- 03/06 UI Pediatric Resident Core Curriculum Conference: "SLE"

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- 04/06 UI Pediatric Resident Core Curriculum Conference: "Juvenile Dermatomyositis"
- 09/06: UI Pediatric Resident Core Curriculum Conference: "How to Interpret an ANA Test"
- 09/06 UI Pediatric Case Conference: "Systemic Lupus Erythematosus: The Great Imitator" presented by Dr. Lana Hattar, PL3. Faculty advisor: P. Ferguson
- 10/06 UI Pediatric Resident Core Curriculum Conference: "Rheumatologic Manifestations of Non-Rheumatologic Diseases"
- 05/07 UI Pediatric Resident Core Curriculum Conference: "Henoch-Schonlein Purpura"
- 05/07 UI Pediatric Case Conference: "HSP" presented by Dr. Sarah Haskell, PL3. Faculty advisors: P. Ferguson and C. Porter
- 09/07 UI Pediatric Resident Core Curriculum Conference: "Juvenile Idiopathic Arthritis"
- 06/08 UI Pediatric Resident Core Curriculum Conference: "Autoinflammatory/Periodic Fever syndromes"
- 02/09 UI Pediatric Resident Core Curriculum Conference: "Rheumatologic Manifestations of Non-Rheumatologic Diseases"
- 09/09 UI Pediatric Resident Core Curriculum Conference: "Monogenic Autoinflammatory Syndromes"
- 12/09 UI Pediatric Resident Core Curriculum Conference: "Musculoskeletal Manifestations of Non-Rheumatologic Diseases"
- 04/10 UI Pediatric Resident Core Curriculum Conference: "Juvenile Dermatomyositis and Scleroderma"
- 06/10 UI Pediatric Resident Core Curriculum Conference: "Henoch-Schönlein Purpura and Kawasaki Disease"

### **Pediatric Resident Morning Report/Case Conference**

07/05- 07/09: Faculty Facilitator (Biweekly)

### **Fellow Education**

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- 05/01 UAB Pediatric ER Fellows Conference: "Cutaneous Manifestations of Rheumatologic Illness"
- 10/02 UI Rheumatology Fellow's Conference: "JRA and Juvenile Spondyloarthropathy"
- 01/04 UI Rheumatology Fellows Case Conference: "The Stiff Twin, Multicentric Reticulohistiocytosis in Childhood" and "Juvenile Dermatomyositis Presenting with Severe Rhabdomyolysis"
- 03/06 UI Allergy and Immunology Fellow Conference: "Introduction to Pediatric Rheumatology"
- 07/08 UI Pediatric Fellows' Core Curriculum Seminar: Research Survival Skills Series #1: "Is Basic Research Right for You?" Role: Commentator
- 08/09 UI Pediatric Fellows' Core Curriculum Seminar: "Is Basic Research Right for You?" Role: Commentator
- 08/09 UI Pediatric Fellows' Core Curriculum Seminar: "Collaborative Science", Role: Commentator
- 09/10 UI Pediatric Fellows' Core Curriculum Seminar: "Laboratory Transition from Fellow to Faculty". Role: Commentator
- 07/14 UI Pediatric Fellows' Core Curriculum Seminar: "Is Basic Research Right for You?" Role: Presenter
- 12/14 UI Allergy and Immunology Fellow Conference: "Periodic Fever Syndromes"
- 07/15 UI Pediatric Fellows' Core Curriculum Seminar: "Is Basic Research Right for You?" Role: Presenter
- 2008-present: UI Pediatric Fellows' Core Curriculum Seminar when fellows present their research (as available)

### **Mentor for Junior Faculty – career mentor (Current = bold)**

2008-	Sandy Hong MD, clinical track (pediatric rheumatology)
2010-	Carla Nester MD, tenure track (pediatric nephrology)
2010 - 2022	Jennifer Jetton MD, clinical track (pediatric nephrology)
2011-	Janice Staber MD, tenure track (pediatric hematology)
2012 - 2016	Ghada Abusin MD, clinical track (pediatric oncology)
2012 - 2018	Yuri Chaly PhD, tenure track (pediatric rheumatology)

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2012- 2020	Diana Zepeda-Orozco MD, (peds nephrology)
2013 - 2016	Alvaro Serrano Russi, MD, clinical track (genetics)
2013 - 2023	Beth Newell, MD, tenure track (PICU)
2013-	Scott Lieberman, MD, PhD, tenured (ped rheumatology)
2015-	Takashi Shawn Sato, MD, clinical track (radiology)
2016 - 2021	Luis Ochoa, MD, clinical track (pediatric cardiology)
2018- 2022	Satsuki Matsomoto, MD, clinical track (child neurology)
<b>2019</b>	<b>Diana Bayer, DO, clinical track (ped allergy/immunology)</b>
<b>2019</b>	<b>Aleksander Lenert, MD, (adult rheum)</b>
2021- 2023	Katherine Schultz, MD, clinical track (ped rheumatology)
2021- 2023	Shima Yasin, MD, MS, tenure track (ped rheumatology)
<b>2023-</b>	<b>Dan Hinds, MD, clinical track (ped pulmonary)</b>
<b>2023-</b>	<b>Karen Cyndari, MD, PhD (emergency medicine)</b>

### **Individual K Award Mentoring**

Beth Newell- K08 co-Mentor – awarded R01 2023

Aleksander Lenert – K23 Primary Mentor – 2023 - pres

### **CHRC Scholar Mentoring - Departmental K12 entitled “Molecular and Cellular Research to Advance Child Health” (Current PI: Hirsch)**

2008 - 2011 Recruiter (20% effort)

2011 - present Program Director (10% effort)

Provide mentorship to ~ 3 junior faculty per year on the Departmental K12 Child Health Research Career Development Award (Hirsch: PI). This program will support and fosters research training of junior pediatric physician-scientists in cellular and molecular biology, applied genetics and genomics, animal models of human disease, and translational research.

### **CHRC Scholars (2008 – present):**

Rajeev Vibikar MD, PhD	7/01/05 - 1/31/08	Pediatric Oncology
Oscar Gomez MD, PhD	7/31/06 - 9/2/08	Pediatric Infectious Disease
Carla Nester, MD	7/01/08-6/30/13	Pediatric Nephrology
Heather Bartlett, MD	1/01/09 -12/31/11	Pediatric Cardiology
Christoph Randak, MD, PhD	2/15/09 - 3/31//09	Pediatric Pulmonary
Alexandria Paige Volk, MD	7/1/09 - 3/31/10	Pediatric Intensive Care
Janice Staber, MD	7/15/10- 7/15/14	Pediatric Hematology
Sarah Haskell,, MD	1/1/2012-12/31/14	Pediatric Intensive Care
Oleg Shchelochkov MD	7/1/14-6/30/15	Genetics
Jane Brumbaugh MD	7/1/14-6/30/15	Neonatal Intensive Care
Lyndsay Harshman, MD	7/1/16-8/31/16	Pediatric Nephrology
Elizabeth Newell MD	4/1/15 – 3/31/19	Pediatric Intensive Care
Anthony Fischer MD, PhD	7/27/15 - 7/01/17	Pediatric Pulmonary
Aaron Boes MD, PhD	7/31/16 - 7/01/17	Pediatric Neurology

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Diana Zepeda-Orozco MD	11/14/16 - 1/01/20	Pediatric Nephrology
Christina Cifra, MD	4/01/18 - 4/01/20	Pediatric Intensive Care
Catherine Pinnaro, MD	7/01/20 – 6/30/23	Pediatric Endocrinology
<b>Jessica Zimmerman, MD</b>	<b>7/01/20 – present</b>	<b>Pediatric Heme/Oncology</b>
<b>Hua Sun, MD, PhD</b>	<b>9/01/20 – present</b>	<b>Pediatric Nephrology</b>
<b>Lauren Bodilly, MD</b>	<b>07/12/23- present</b>	<b>Pediatric Critical Care</b>

### **CTSA KL2/K12 (role MPI with Alexander Bassuk, MD, PhD) 2022-pre**

Xiaoyang Hua, MD  
Martha Carvour, MD  
**Jacob Simmering, PhD**  
**Michelle Howard, PhD**  
**Raul Villacreses, MD**  
**Sarah Beattie, PhD**  
**Melissa Swee, MD**

### **Inflammation Program Mentoring (Junior Faculty Tenure Track)**

2017 - 2022                      Prajwal Gurung, PhD  
2018 - 2020                      Christine Cho, MD

### **Inter-institutional Mentoring**

2015-2018: AMIGO Mentor – **ACR/CARRA inter-institutional mentoring program in pediatric rheumatology (AMIGO)** mentor - Olha Halyabar, MD, Fellow, Boston Children's, Harvard University, Boston, MA

2014- present: Yongdong (Dan) Zhao, MD – **CARRA CRMO Workgroup** junior faculty leader (Ferguson senior faculty lead and career/research mentor), University of Washington/Seattle Children's, Seattle, WA

### **Clinical Based Education**

2002 - 2008: Pediatric Resident in Pediatric Rheumatology Clinic ½ day per week

2002 - present: Adult Rheumatology Fellow in Pediatric Rheumatology Clinic ½ day per week

2006 - present: Adult Allergy Fellow in Pediatric Rheumatology Clinic ½ day per week (~ 2 mo/yr)

2009: Intermittently have M3 rotate with Pediatric Rheumatology Clinic (~ ½ day 2 to 3x/yr).

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2011: Pediatric Rheumatology elective for residents: supervise 0 to 1 resident, 1 day/week

2015: Ambulatory Care Pharmacy Resident – Brittany Bruch, Pharm D (1 month)

### **Contributions to Institutional Educational Programs (University of Iowa)**

2002-2003: Immune Disorders Clinical Conference (monthly)

2002-2009: Internal Medicine Rheumatology Clinical Conference

2005-2008: Pediatrics Morning Report/Case Conference

2008-2012: Pediatric Fellow Research Conference (~ twice monthly)

### **ADVOCACY**

09/01 American College of Rheumatology Governmental Advocacy for Arthritis  
Legislative Reception 9/11/01, Washington, DC—Canceled due to terrorism

02/02 American College of Rheumatology Governmental Advocacy for Arthritis  
Advocates for Arthritis, Washington, DC

09/02 American College of Rheumatology Legislative Reception, Washington, DC

02/03 American College of Rheumatology Governmental Advocacy for Arthritis  
Advocates for Arthritis, Washington, DC

04/03 National Women's Health Resources Center: "Immune Mediated  
Inflammatory Disorders", Chicago, IL

03/04 Arthritis Foundation Advocacy Summit, Washington, DC

09/04 American College of Rheumatology Legislative Reception, Washington, DC

02/05 American College of Rheumatology Governmental Advocacy for Arthritis,  
Washington, DC

03/07 American College of Rheumatology Governmental Advocacy,  
Washington, DC

05/13 American College of Rheumatology Governmental Advocacy,  
Washington, DC

## COLLEGE OF MEDICINE CURRICULUM VITAE

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### **COMMUNITY SERVICE**

2001- 2011	Arthritis Foundation, Alabama Chapter Consultant for issues pertaining to Pediatric Rheumatology
2003-2011	Camp MD for CAMP M*A*S*H (Make Arthritis Stop Hurting), Mobile, AL [month/year 07/03, 10/04, 08/05, 08/06, 08/07, 08/08, 07/09, 06/10, 07/11]
01/05- 05/11	Board of Directors, Arthritis Foundation, Iowa Chapter Served two 3-year terms
2005- 2011	Arthritis Foundation, Alabama Chapter Juvenile Arthritis Fund Task Force
02/23/06	Judge, "Invent Iowa" regional competition, Cedar Rapids, IA
02/09/07	Arthritis Foundation, benefit planning committee, SALUT, M.C. Ginsberg's, Iowa City, IA.
02/15/07	Judge, "Invent Iowa" regional competition, Cedar Rapids, IA
05/11-present	Arthritis Foundation, Heartland Region Consultant for issues pertaining to Pediatric Rheumatology
2013	Arthritis Foundation, speaker at National Juvenile Arthritis Conference, Anaheim, CA
2014-2016, 2018	Iowa Ladies Football Academy, volunteer physician
2022	Cassie and Friends, Canadian Parent/Patient support group Talk on CNO/CRMO (zoom, attended by ~ 400 individuals from 15 countries; and translated to French)
2022	Iowa Ladies Football Academy, volunteer physician

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2023

2<sup>nd</sup> annual 'Bone Dash' volunteer (fund raiser for Pediatric Rheumatology patient support group – co-founded by Courtney Kremer and Emma Leisinger)

### III. SCHOLARSHIP

#### **A. Publications of Creative Works [H-index = 38, Times cited > 7250 excluding group publications with the CARRA Registry]**

1. Finkel TH, Török TJ, **Ferguson PJ**, Durigon EL, Zaki SR, Leung DYM, Harbeck RJ, Gelfand EW, Saulsbury FT, Hollister JR, Anderson LJ: Chronic Parvovirus B19 infection and systemic necrotizing vasculitis: Opportunistic pathogen or aetiologic agent? *Lancet* 343:1255-1258, 1994. [Times cited: 278]
2. **Ferguson PJ**, Reist CJ, Martin EN, Johnson C, Greene KL, Kuhn S, Niebur J, Emlen W, Taylor RP: Antigen-Based Heteropolymers: A potential therapy for binding and clearing autoantibodies via erythrocyte CR1. *Arthritis and Rheum* 38:190-200, 1995. [Times cited: 36]
3. **Ferguson PJ**, Saulsbury FT: Cardiovascular and renal complications of HIV infection in children. *Immunol Allergy Clin North Am* 15:347-354, 1995. [Times cited: 1]
4. **Ferguson PJ**, Martin EN, Greene KL, Kuhn S, Cafiso DS, Taylor RP: Clearance of an autoantibody from the circulation: Antigen-Based Heteropolymers facilitate, via CR1, binding of an autoantibody and its clearance from the circulation in Rhesus monkeys. *J Immunol* 155:339-347, 1995. [Times cited: 20]
5. Taylor RP, **Ferguson PJ**: Primate erythrocyte complement receptor (CR1) as an anchor site for bispecific based therapies to clear pathogens or autoantibodies safely from the circulation. *J Hematotherapy* 4:357-362, 1995. [Times cited: 15]
6. **Ferguson PJ**, Saulsbury FT: Chronic Mycobacterium Abscessus Otitis Media: Successful treatment with clarithromycin. *Pediatr Infect Dis J* 15:384-385, 1996. [Times cited: 11]
7. **Ferguson PJ**, Dowell SF, Török TJ, Erdman DD, Anderson LJ, Saulsbury FT: The prevalence of Human Parvovirus B19 infection in children with Henoch- Schönlein Purpura. *Arthritis Rheum* 39:880,1996. [Times cited: 38]
8. Taylor RP, **Ferguson PJ**, Martin EN, Cooke J, Greene KL, Grinspun K, Guttman M, Kuhn S: Immune Complexes Bound to the Primate Erythrocyte Complement Receptor (CR1) Via Anti-CR1 Mabs are Cleared Simultaneously with Loss of CR1

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- in a Concerted Reaction in a Rhesus Monkey Model. Clin Immunol Immunopathol 82:49-59, 1997. [Times cited: 39]
9. Reinagel ML, Gezen M, **Ferguson PJ**, Kuhn S, Martin EN, Taylor RP: The Primate Erythrocyte Complement Receptor (CR1) as a Privileged Site. Binding of IgG to Erythrocyte CR1 does not Target Erythrocytes for Phagocytosis. Blood 89:1068-1077, 1997. [Times cited: 51]
  10. Taylor RP, Sutherland WM, Martin EN, **Ferguson PJ**, Reinagel M, Gilbert E, Lopez K, Incardona NL, Ochs HD: Bispecific Monoclonal Antibody Complexes Bound to Primate Erythrocyte Complement Receptor 1 Facilitate Virus Clearance in a Monkey Model. J Immunol 158:842-850, 1997. [Times cited: 43]
  11. **Ferguson PJ**, Blanton SH, Saulsbury FT, McDuffie MJ, Lemahieu V, Gastier JM, Francke U, Borowitz SM, Sutphen JL, Kelly TE: Manifestations and Linkage Analysis in X-linked Autoimmunity-Immunodeficiency Syndrome. Am J Med Genet 90:390-397, 2000. [Times cited: 60]
  12. Bennet CL, Christie J, Ramsdell F, Brunkow ME, **Ferguson PJ**, Whitesell L, Kelly TE, Saulsbury FT, Chance PF, Ochs H: Immunodeficiency, Polyendocrinopathy, Enteropathy, X-Linked (IPEX) is Caused by a Mutation of the Human Scurfy Gene. Nat Genet 27:20, 2001. [Times cited: 2570]
  13. Su K, Wu J, Edberg JC, Li X, **Ferguson P**, Cooper GS, Langefeld CD, Kimberly RP: A promoter haplotype of the ITIM-bearing FcγRIIb alters receptor expression and associates with autoimmunity. I. Regulatory FCGR2B polymorphisms and their association with systemic lupus erythematosus. J Immunol 172:7186, 2004. [Times cited: 143]
  14. Su K, Li X, Edberg JC, Wu J, **Ferguson P**, Kimberly RP: A promoter haplotype of the ITIM-bearing FcγRIIb alters receptor expression and associates with autoimmunity. II. Differential binding of GATA4 and YY1 transcription factors and correlated receptor expression and function. J Immunol 172:7192, 2004. [Times cited: 86]
  15. DiMeo DE, **Ferguson PJ**, Bishop WP: An unusual intestinal presentation of c-ANCA/PR-3 positive vasculitis in a child. J Pediatr Gastro Nutr 40:368, 2005. [Times cited: 3].
  16. **Ferguson PJ**, Chen S, Tayeh MK, Ochoa L, Leal SM, Pelet A, Munnich A, Lyonnet S, Majeed HA, El-Shanti H: Homozygous mutations in *LPIN2* are responsible for the syndrome of chronic recurrent multifocal osteomyelitis and congenital dyserythropoietic anemia. J Med Genet 42:551, 2005. [Times cited: 281]

17. **Ferguson PJ**, Bing X, Vasef M, Ochoa L, Mahgoub A, Waldschmidt T, Tygrett L, Schlueter A, El-Shanti, H: A missense mutation in *pstpip2* is associated with the murine autoinflammatory disorder chronic multifocal osteomyelitis. *Bone* 38:41, 2006. [Times cited: 155]
18. **Ferguson PJ**, Weinberger M: Shrinking Lung Syndrome in a 14-Year-Old Boy with Systemic Lupus Erythematosus. *Pediatr Pulmonol.* 41:194, 2006. [Times cited: 25]
19. Khanna G and **Ferguson P**: MR Imaging of Diabetic Cheiroarthropathy. *Amer J Roent* 188:W94, 2007. [Times cited: 9]
20. Al-Mosawi ZS, Al-Saad KK, Ijadi-Magsoodi R, El-Shanti H, **Ferguson PJ**: A splice site mutation confirms the role of *LPIN2* in Majeed Syndrome. *Arthritis Rheum* 56:960, 2007. [Times cited: 82]
21. El-Shanti HI, **Ferguson PJ**: Chronic Recurrent Multifocal Osteomyelitis: A Concise Review and a Genetic Update. *Clin Orthop Relat Res* 462:11, 2007. [Times cited: 83]
22. Ochoa L, **Ferguson PJ**, El-Shanti HI: Chronic Recurrent Multifocal Osteomyelitis (CRMO): An illustrative case. *J Musculoskel Med* :340, 2007 [also reprinted by the editors in *Consultant for Pediatricians*].
23. **Ferguson PJ**, El-Shanti HI: Autoinflammatory Bone Disorders. *Curr Opin Rheumatol* 19(5):492-8, 2007. [Times cited: 109]
24. **Ferguson PJ**, Lokuta MA, Muhle L, El-Shanti H, Bing X, Huttenlocher A: Neutrophil dysfunction in a family with a SAPHO-like phenotype. *Arthritis Rheum*, 58:3264, 2008. [Times cited: 64]
25. Sato TS, **Ferguson PJ**, Khanna G: Primary Multifocal Osseous Lymphoma in a Child. *Pediatr Rad*, 38:1338, 2008. [Times cited: 21]
26. Bassuk AG, Wallace RH, Buhr A, Buller A, Shimojo M, Miyata S, Chen S, Gonzalez-Alegre P, Griesbach HL, Shu W, Nashelsky M, Vladar EK, Antic D, **Ferguson PJ**, Cirak S, Voit T, Scott MP, Axelrod JD, Gurnett C, Daoud AS, Afawi Z, Neufeld MY, Korczyn AD, Kivity S, Mazarib A, Straussberg R, Walid S, Slusarski DC, Berkovic SM, & El-Shanti HI: A homozygous mutation in human *PRICKLE1* causes an autosomal-recessive progressive myoclonic epilepsy-ataxia syndrome. *Am J Hum Genet*, 83:572, 2008. [Times cited: 149]
27. Khanna G, Sato TSP, **Ferguson PJ**: Imaging of Chronic Recurrent Multifocal Osteomyelitis. *Radiographics* 29:1159, 2009. [Times cited: 190]

28. **\*Aksentijevich I/\*Masters SL/\*Ferguson PJ**, Dancey P, Frenkel J, van Royen-Kerkhoff A, Laxer R, Tedgård U, Cowen E, Turner ML, Pham T-H, Booty M, Estes JD, Sandler N, Plass N, Stone D, Turner ML, Hill S, Butman JA, Schneider R, Babyn P, El-Shanti H, Pope E, Barron K, Bing X, Laurence A, Lee C-CR, Chapelle D, Clarke G, Ohson K, Nicholson M, Gadina M, Yang B, Korman B, Gregersen PK, van Hagen M, A. Hak E, Huizing M, Rahman P, Douek D, Remmers EF, Kastner DL, Goldbach-Mansky R. Deficiency of the Interleukin-1 Receptor Antagonist (DIRA)-A Systemic Autoinflammatory Disease of Skin and Bone. **\* The first three authors contributed equally to this work.** N Engl J Med 360:2426, 2009. [Times cited: 628]
  
29. Chitu V, **Ferguson PJ**, de Bruijn R, Schlueter A, Ochoa L, Waldschmidt TJ, Yeung Y-G, Stanley ER: Primed innate immunity leads to autoinflammatory disease in the Pstpip2 deficient cmo mouse. Blood 114:2497, 2009. [Times cited: 49]
  
30. Matiz C, **Ferguson PJ**, Zaenglein A, Groh B, Bingham CA: Papular Xanthoma and Erosive Arthritis in a 3-year-old girl: Is this a New MRH variant? Pediatr Rheum 7:15, 2009. [Times cited: 15]
  
31. Tao H, Manak JR, Sowers L, Mei X, Kiyonari H, Abe T, Dahdaleh NS, Yang T, Wu S, Chen S, Fox MH, Gurnett C, Montine T, Bird T, Shaffer LG, Rosenfeld JA, McConnell J, Madan-Khetarpal S, Berry-Kravis E, Griesbach H, Saneto RP, Scott MP, Antic D, Reed J, Boland R, Ehaideb SN, El-Shanti H, Mahajan VB, **Ferguson PJ**, Axelrod JD, Lehesjoki A, Frittsch B, Slusarski DC, Wemmie J, Ueno N, Bassuk AG. Mutations in PRICKLE orthologues cause seizures in flies, mice and humans. Am J Hum Genet 88:138, 2011. [Times cited: 98]
  
32. Jesus AA, Osman M, Silva CAA, Kim PW, Pham T-H, Gadina M, Yang B, Bertola DR, Carneiro-Sampaio M, **Ferguson PJ**, Renshaw BR, Schooley K, Brown M, Al-Dosari A, Alami J, Sims JE, Goldbach-Mansky R, El-Shanti H: Deficiency of Interleukin-1 Receptor Antagonist (DIRA): Description of two unrelated cases from Brazil. Arthritis Rheum 63:4007, 2011. [Times cited: 68]
  
33. **Ferguson PJ**, Sandu M: Current Understanding of the Pathogenesis and Management of Chronic Recurrent Multifocal Osteomyelitis. Curr Rheum Reports. 14:130, 2012 [Times cited: 100]
  
34. Li S, Torok K, Pope E, Dedeoglu F, Hong S, Jacobe H, Rabinovich E, Laxer RM, Higgins G, **Ferguson P**, Lasky D, Baszis K, Becker M, Campillo S, Cartwright V, Cidon M, Inman C, Jerath R, O'Neil K, Vora S, Zeff A, Wallace C, Ilowite N, Fuhlbrigge, R: Development of Consensus Treatment Plans for Juvenile Localized Scleroderma: A Roadmap Toward Comparative Effectiveness Studies in Juvenile Localized Scleroderma. Arthritis Care Res 64:1175, 2012 [Times cited: 121]

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35. Herlin T, Fiirgaard B, Bjerre M, Kerndrup G, Hasle H, Bing X, **Ferguson PJ**: Efficacy of anti-IL-1 treatment in Majeed Syndrome. *Ann Rheum Ds* 72:410, 2013 [Times cited: 115].
36. Ardelean DS, Dent PB, **Ferguson PJ**, Laxer RM: Chronic non-bacterial osteomyelitis in a child with previous juvenile dermatomyositis. *J Rheum* 40:339, 2013 [Times cited: 2]
37. Cherepanova N, Leslie E, **Ferguson PJ**, Bamshad M, Bassuk AG: Presence of epilepsy-associated variants in large exome databases. *J Neurogenetics*, DOI: 10.3109/01677063.2013.772176, March 25, 2013. [Times cited: 13]
38. Safra N, Bassuk AG, **Ferguson PJ**, Aguilar M, Coulson RL, Thomas N, Hitchens PL, Dickinson PJ, Vernau KM, Wolf ZT, Bannasch DL. Genome-Wide Association Mapping in Dogs Enables Identification of the Homeobox Gene, *NKX2-8*, as a Genetic Component of Neural Tube Defects in Humans. *PLoS Genet* 9(7): e1003646. doi:10.1371/journal.pgen.1003646, July, 2013. [Times cited: 24]
39. Darbro BW, Mahajan VB, Gakhar L, Skeie JM, Campbell E, Wu S, Bing X, Millen KJ, Dobyns WB, Kessler JA, Jalali A, Cremer J, Segre A, Manak JR, Aldinger KA, Suzuki S, Natsume N, Ono M, Hai HD, Viet LT, Loddo S, Valente EM, Bernardini L, Ghonge N, **Ferguson PJ**, Bassuk AG: Mutations in extracellular matrix genes *NID1* and *LAMC1* cause autosomal dominant Dandy-Walker malformation and occipital cephaloceles. *Human Mutation* 34: 1075, 2013. [Times cited: 30]
40. Sowers LP, Loo L, Wu Y, Campbell E, Ulrich JD, Wu S, Paemka L, Wassink T, Meyer K, Bing X, El-Shanti H, Usachev YM, Ueno N, Manak RJ, Shepherd AJ, **Ferguson PJ**, Darbro BW, Richerson GB, Mohapatra DP, Wemmie JA, Bassuk AG: Disruption of the non-canonical Wnt gene *PRICKLE2* leads to autism-like behaviors with evidence for hippocampal synaptic dysfunction, *Molecular Psychiatry* 18:1077, 2013. [Times cited: 43]
41. Sowers LP, Mouw TJ, **Ferguson PJ**, Wemmie JA, Mohapatra DP, Bassuk AG: The non-canonical Wnt ligand *Wnt5a* rescues morphological deficits in *Prickle2*-deficient hippocampal neurons. *Molecular Psychiatry* 18:1049, 2013. [Times cited: 3]
42. Stern S, **Ferguson PJ**: Autoinflammatory Bone Disorders, *Rheumatic Disease Clinics of North America* 39, 735, 2013. [Times cited: 67]
43. Reiff A, Bassuk AG, Church JA, Campbell E, Bing X, **Ferguson PJ**: Exome sequencing reveals *RAG1* mutations in a child with autoimmunity and sterile chronic multifocal osteomyelitis evolving into disseminated granulomatous disease. *J Clin Immunol* 33:1289, 2013. [Times cited: 28]
44. Paemka L, Mahajan V, Skeie J, Sowers L, Gonzalez P, Ueno N, Wu S, Darbro B, **Ferguson PJ**, Pieper A, Wemmie JA, Rudd D, Wassink T, Mefford H, Carvill G,

- Bassuk AG: PRICKLE1 interaction with SYNAPSIN I reveals a role in Autism Spectrum Disorders. PLoS One, 2013. DOI: 10.1371/journal.pone.0080737. [Times cited: 31].
45. Sharma M, **Ferguson PJ**: Autoinflammatory bone disorders: Update on immunologic abnormalities and clues about possible triggers. Curr Opin Rheumatol 25:658, 2013. [Times cited: 37]
  46. Rouster-Stevens KA, Ardoin SP, Cooper AM, Becker ML, Dragone LL, Huttenlocher A, Jones K, Kolba K, Moorthy LN, Nigrovic P, Stinson J, **Ferguson PJ** AND the American College of Rheumatology Pediatric Rheumatology Core Membership Group: Choosing Wisely: “Top Five” for Pediatric Rheumatology. Arthritis Care Res 66:649, 2014. [Times cited: 8]
  47. Cassel SL, Janczy JR, Bing X, Wilson SP, Olivier AK, Otero J, Iwakura Y, Shayakhmetov DM, Bassuk AG, Brogden KA, Burns TL, Sutterwala FS\*, **Ferguson PJ\***: Inflammasome-independent IL-1 $\beta$  mediates autoinflammatory disease in Pstpip2-deficient mice. Proc Natl Acad Sci 111:1072, 2014. [Times cited: 79].
  48. Starnes TW, Bennin DA, Bing X, Grahf DC, Bellak JM, Seroogy CM, **Ferguson PJ**, Huttenlocher A: Control of matrix degradation and invasive filopodia by the F-bar protein PSTPIP1. Blood 123:2703, 2014. [Times cited: 58].
  49. Ulland TK, **Ferguson PJ**, Sutterwala FS: Evasion of inflammasome activation by microbial pathogens. J Clin Invest 125:469-477, 2015 [Times cited: 40].
  50. Paemka L, Mahajan VB, Ehaideb SN, Skeie JM, Tan MC, Wu S, Cox AJ, Sowers LP, Gecz J, Jolly L, **Ferguson PJ**, Darbro B, Scheffer IE, Carvill GL, Mefford HC, El-Shanti H, Wood S, Manak JR, Bassuk AG: Seizures are regulated by ubiquitin-specific peptidase 9 X-linked (USP9X), a de-ubiquitinase. PLoS Genetics DOI:10.1371/journal.pgen.1005022, 2015 [Times cited: 51].
  51. **Ferguson PJ**, Laxer RM: New discoveries in CRMO: IL-1beta, the neutrophil and the microbiome implicated in disease pathogenesis in Pstpip2-deficient mice. Semin Immunopathol 37:407, 2015 [Times cited: 31].
  52. Moorthy N, Muscal E, Ribschrleger M, Klein-Gitelman M, Nigrovic LE, Rouster-Stevens K, **Ferguson PJ**, Nigrovic PA: Community-wide efficacy of the AMIGO inter-institutional mentoring program within pediatric rheumatology. Arthritis Care Res 68:645, 2016. [Times cited: 5]
  53. Whitmore, LC, Hook JS, Philip AR, Hilkin B, Bing X, Ahn C, Wong HR, **Ferguson PJ**, Moreland JG: Genetic variation determine dichotomous neutrophil priming by TLR2/1 agonists. J Immunol 196:1376, 2016. [Times cited: 14]

54. Rao AP, MD, Dharmanand BG, Bing X, **Ferguson PJ**: Phenotypic variation and variable disease severity in Majeed syndrome. J Rheumatol, 43:1258, 2016. PMC4898189 [Times cited: 15]
55. Korman B, Wei J, Laumann A, **Ferguson PJ**, Varga J: Novel LEMD3 mutation associated with osteopoikilosis and adult-onset scleroderma: An Ollendorf-Buschke syndrome variant? Case Rep Dermatol Med, April 2016 <http://dx.doi.org/10.1155/2016/2483041> [Times cited: 0]
56. Ulland TK, Jain N, Clay GC, Hornick EE, Sadler JJ, Mills KAM, Janowski AM, Davis Volk AP, Wang K, Legge KL, Gakhar L, Bourdi M, **Ferguson PJ**, Wilson ME, Cassel SL, Sutterwala FS: *Nlrp12* mutation in C57BL/6J mice results in a substrain specific defect in neutrophil recruitment. Nat Commun, 7:13180, 2016. PMC5093323 [Times cited: 34]
57. Zhao Y, Dedeoglu F, **Ferguson PJ**, Lapidus SK, Laxer RM, Bradford MC, Li SC: Physicians' Perspectives on the Diagnosis and Treatment of Chronic Nonbacterial Osteomyelitis. Int J Rheumatol, 2017.doi: 10.1155/2017/7694942. [Times cited: 17]
58. Zhao Y, Laxer RM, **Ferguson PJ**: Treatment advances in chronic nonbacterial osteomyelitis and other autoinflammatory bone conditions. Curr Treatm Opt Rheumatol, Jan 2017. doi: 10.1007/s40674-017-0058-y. [Times cited: 0]
59. Cox AJ, Darbro BW, Laxer RM, Bing X, Finer AL, Erives A, Mahajan VB, \*Bassuk AG, \* **Ferguson PJ**: Recessive coding and regulatory mutations in FBLIM1 underlie the pathogenesis of sterile osteomyelitis. PLoS ONE 12(3):e0169687, 2017. <https://doi.org/10.1371/journal.pone.0169687> [Times cited: 36]
60. Cox AJ, Zhao Y, **Ferguson PJ**: Chronic Recurrent Multifocal Osteomyelitis and Related Diseases – Update on Pathogenesis. Curr Rheumatol Rep 19:18, 2017. doi: 10.1007/s11926-017-0645-9. PMC5354242 [Times cited: 29]
61. Hofmann SR, Kapplusch F, Girschick HJ, Morbach H, Pablik J, **Ferguson PJ**, Hedrich CM: Chronic Recurrent Multi-focal Osteomyelitis (CRMO): Presentation, Pathogenesis and Treatment. Curr Osteoporos Rep 15:542, 2017. [Times Cited: 87]
62. Zhao Y, Wu EY, Oliver MS, Cooper AM, Basiaga ML, Vora SS, Lee TC, Fox E, Amarilyo G, Stern SM, Devergsten JA, Haines KA, Rouster-Stevens KA, Onel KB, Cherian J, Hausmann JS, Miettunen P, Cellucci T, Nuruzzaman F, Taneja A, Barron KS, Hollander MC, Lapidus SK, Li SC, Ozen S, Girschick H, Laxer RM, Dedeoglu F, Hedrich CM, **Ferguson PJ (senior author)** and the CRMO study group and the CARRA SVARD subcommittee: Consensus Treatment Plans for Chronic Nonbacterial Osteomyelitis Refractory to Nonsteroidal Anti Inflammatory Drugs And/or With Active Spinal Lesions. Arthritis Care Res, November 2017; doi: 10.1002/acr.23462. [Times Cited: 74]

63. Evans L, Newell E, Mahajan MA, Tsang S, **Ferguson PJ**, Mahoney J, Hue C, Vogel III E, Morrison B, Arancio O, Nicholls R, Bassuk A, Mahajan V: Acute Vitreoretinal Trauma and Inflammation After Traumatic Brain Injury in Mice. *Annals of Clinical and Translational Neurology*, 26 February 2018. doi: 10.1002/acn3.523. [Times cited: 15]
64. Velez G, Bassuk A, Gakhar L, Mahajan MA, Kahn P, Tsang SH, **Ferguson PJ**, Mahajan VB: A novel *de novo* *CAPN5* mutation causes IVHD syndrome – inflammatory vitreoretinopathy, hearing loss, and developmental delay. *Cold Spring Harb Mol Case Stud*, 2018. doi: 10.1101/mcs.a002519 mcs.a002519. [Times cited: 12]
65. Newell EA, Todd BP, Mahoney J, Pieper AA, **Ferguson PJ**, Bassuk AG: Combined blockade of interleukin-1  $\alpha$  and  $\beta$  signaling protects mice from traumatic brain injury. *eNeuro*. doi: <https://doi.org/10.1523/ENEURO.0385-17.2018>. [Times cited: 30]
66. Zhao Y and **Ferguson PJ**: Chronic Non-bacterial Osteomyelitis and Chronic Recurrent Multifocal Osteomyelitis in Children. *Pediatr Clin N Am* 65:783, 2018 [Times cited: 48].
67. Cox A, Ferguson PJ: Update on the Genetics of Non-Bacterial Osteomyelitis in Humans. *Curr Opin Rheumatol*, 30:521, 2018. [Times cited: 22]
68. Ringold S, Angeles-Han ST, Beukelman T, Lovell DJ, Cuello CA, Becker ML, Colbert RA, Feldman BM, **Ferguson PJ**, Gewanter HL, Gray T, Guzman J, Horonjeff J, Peter A, Nigrovic PA, Ombrello M, Passo M, Stoll ML, Rabinovich CE, Schneider R, Halyabar O, Hays K, Shah AA, Sullivan N, Szymanski AM, Turgunbaev M, Miller AS, Reston J. 2019 American College of Rheumatology/Arthritis Foundation Recommendations for the Treatment of Juvenile Idiopathic Arthritis: Therapeutic Approaches for Non-Systemic Polyarthritis, Sacroiliitis, and Enthesitis. *Arthritis Care Res*, 71:717, 2019 and *Arthritis & Rheumatol* 71:846, 2019 [Times cited: 90]
69. Angeles-Han ST, Ringold S, Beukelman T, Lovell DJ, Cuello CA, Becker ML, Colbert RA, Feldman BM, Holland GN, **Ferguson PJ**, Gewanter HL, Gray T, Guzman J, Horonjeff J, Peter A, Nigrovic PA, Ombrello M, Passo M, Stoll ML, Rabinovich CE, Sen HN, Schneider R, Halyabar O, Hays K, Shah AA, Sullivan N, Szymanski AM, Turgunbaev M, Miller AS, Reston J: 2019 American College of Rheumatology/Arthritis Foundation Guideline for the Screening, Monitoring, and Treatment of Juvenile Idiopathic Arthritis-Associated Uveitis. *Arthritis Care Res*, 71:703-716, 2019 and *Arthritis & Rheumatol* 71, 864, 2019. [Times cited: 79]
70. Cox A, Grady F, Velez G, Mahajan VB, **Ferguson PJ**, Kitchen A, Darbro BW, Bassuk AG: In trans variant calling reveals enrichment for compound heterozygous variants in genes involved in neuronal development and growth. *Genetics Research* 101, e8, 1–8. <https://doi.org/10.1017/S0016672319000065> [Times cited: 2]

71. Farmer JR, Foldvari Z, Ujhazi B, DeRavin SS, Chen K, Bleesing JH, Schuetzz C, Al-Herz W, Abraham RS, Joshi AY, Costa-Carvalho BT, Buchbinder D, Booth C, Reiff A, **Ferguson PJ**, Aghamohammadi A, Abolhassani H, Puck JM, Adeli M, Cancrini C, Palma P, Bertaina A, Locatelli F, Di Matteo G, Geha RS, Kanariou MG, Lycopoulou E, Tzanoudaki M, Sleasman J, Parikh S, Pinero G, Fischer BM, Dbaiibo G, Unal E, Patisroglu T, Karakukcu M, Alsaad KK, Dilley MA, Pai S-Y, Dutmer CM, Gelfand EW, Geier C, Eibl MM, Wolf HM, Henderson L, Hazen M, Bonfim C, Wolska-Kuśnierz B, Butte MJ, Hernandez JD, Nicholas SK, Stepensky P, Chandrakasan S, Miano M, Westermann-Clark E, Goda V, Kirvan G, Holland SM, Fadugba O, Henrickson SE, Ozen A, Karakoc-Aydiner E, Baris S, Kiykim A, Bredius RB, Hoeger B, Boztug K, Pashchenko O, Neven B, Moshouse D, deVillartay J-P, Bousfiha AA, Hill HR, Notarangelo LD, Walters JE: Prevalence, outcomes, and treatment strategies for autoimmunity and hyperinflammation in patients with RAG deficiency. *J Allergy Clin Immunol Pract*, 7(6):1970-1985.e4 [Times cited: 43]
  
72. Ramanan AV, Hampson LV, Lythgoe H, Hardwick B, Jones AP, Hind H, Jacobs B, Vasileiou D, Wadsworth I, Ambrose N, Davidson J, **Ferguson PJ**, Hedrich C, Herlin T, Karivayani A, Killeen O, Lacassagne S, Laxer R, Roderick M, Swart J, Beresford MW: Defining consensus opinion to develop randomised controlled trials in rare diseases using Bayesian design: An example of a proposed trial of adalimumab versus pamidronate for children with CRMO. *PLoS ONE* 14(6): e0215739, 2019. [Times cited: 6]
  
73. Abe K, Cox A, Takamatsu N, Velez G, Laxer RM, Tse SML, Mahajan VB, Bassuk AG, Fuchs H, **Ferguson PJ\***, Hrabě de Angelis M\*: Novel Gain-of-Function Mutation in a Member of the Src Family Kinases Causes Autoinflammatory Syndrome-like Phenotype in Mice and Associates with Chronic Recurrent Multifocal Osteomyelitis. *Proc Natl Acad Sci*, 116:11872, 2019. **(\*co-senior authors)** [Times cited: 17]
  
74. Li SC, Fuhlbrigge RC, Laxer RM, Pope E, Ibarra MF, Stewart K, Mason II T, Becker ML, Hong S, Dedeoglu F, Torok KS, Rabinovich CE, **Ferguson PJ**, Punaro M, Feldman BM, Andrews T, Higgins GC and the CARRA Registry Investigators. Developing Comparative Effectiveness Studies for a Rare, Understudied Pediatric Disease: Lessons Learned from the CARRA Juvenile Localized Scleroderma Consensus Treatment Plan Pilot Study. *Ped Rheumatol* 17:43, 2019. [Times cited: 7]
  
75. Li SC, Torok KS, Rabinovich CE, Dedeoglu F, Becker ML, **Ferguson PJ**, Hong SD, Ibarra MF, Stewart K, Pope E, Higgins GC, Laxer RM, Mason II T, Fuhlbrigge RC, Andrews T, For the CARRA Registry Investigators. Initial Results from a Comparative Effectiveness Pilot Study of Three Methotrexate-Based Consensus

- Treatment Plans for Juvenile Localized Scleroderma. *J Rheum* 47:1242, 2020. [Times cited: 10]
76. Zhao Y, Sato TS, Nielsen SM, Beer M, Huang M, Iyer RS, McGuire M, Ngo A-V, Otjen JP, Panwar J, Stimec J, Thapa M, Toma P, Taneja A, Gove NE, **Ferguson PJ**. Development of CROMRIS (ChRonic nonbacterial Osteomyelitis MRI Scoring) Tool and Evaluation of its Interrater Reliability. *J Rheumatol* 47:739, 2019. [Times cited: 20]
77. Sato TS, Watal P, Ferguson PJ: Radiographic mimics of CRMO: A pictorial essay to help avoid pitfalls in a diagnosis of exclusion. *Ped Radiol* 50:124, 2020 [Times cited: 17]
78. Newell EA, Todd BP, Luo Z, Evans LP, **Ferguson PJ**, Bassuk AG. A mouse model for juvenile, lateral fluid percussion brain injury reveals age and sex-dependent differences in neuroinflammation and functional recovery. *J Neurotrauma*, 2020. <https://doi.org/10.1089/neu.2019.6675>. [Times cited: 14]
79. Lynton JJ, Mersch A, **Ferguson PJ**: Multi-disciplinary practice advancement: The Role of a Clinical Pharmacy Specialist in a Pediatric Specialty Clinic. *Am J Health Syst Pharm*, 2020;77:1771 [Times cited: 4]
80. de Jesus AA, Hou Y, Brooks S, Malle L, Biancotto A, Huang Y, Calvo KR, Marrero B, Moir S, Oler AJ, Deng Z, Montealegre Sanchez GA, the Autoinflammatory Diseases Consortium (Ahmed A, Allenspach E, Arabshahi B, Behrens E, Benseler S, Bezrodnik L, Bout-Tabaku S, Brescia AMC, Brown D, Burnham JM, Soledad Caldirola M, Carrasco R, Chan AY, Cimaz R, Dancey P, Dare J, DeGuzman M, Dimitriades V, Ferguson I, **Ferguson P**, Finn L, Gattorno M, Grom AA, Hanson EP, Hashkes PJ, Hedrich CM, Herzog R, Horneff G, Jerath R, Kessler E, Kim H, Kingsbury D, Laxer RM, Lee PY, Lee-Kirsch MA, Lewandowski L, Li S, Lilleby V, Mammadova V, Moorthy LN, Nasrullayeva G, O'Neill KM, Onel K, Ozen S, Pan N, Pillet P, Piotto DGP, Punaro MG, Reiff A, Reinhardt A, Rider LG, Rivas-Chacon R, Ronis T, Rösen-Wolff A, Roth J, Ruth NM, Rygg M, Schmeling H, Schulert G, Scott C, Seminario G, Shulman A, Sivaraman V, Son MB, Stepanovskiy Y, Stringer E, Taber S, Terreri MT, Tifft C, Torgerson T, Tosi L, Van Royen-Kerkhof A, Muskardin TW), Canna SW, Goldbach-Mansky R. Distinct Interferon Signatures and Cytokine Patterns Define Additional Systemic Autoinflammatory Diseases. *J Clin Invest*. 2020. <https://doi.org/10.1172/JCI129301>. [Times cited: 85]
81. Evans LP, Woll AW, Wu S, Todd BP, Hehr N, Hedberg-Buenz A, Anderson MG, Newell EA, **Ferguson PJ**, Mahajan VB, Harper MM, Bassuk AG: Modulation of post-traumatic immune response using the IL-1 receptor antagonist anakinra for improved visual outcomes. *J Neurotrauma*, 2020. doi: 10.1089/neu.2019.6725. [Times cited: 15]

82. Amarilyo G, Rothman D, Manthiram K, Edwards KM, Li S, Marshall GS, Yildirim-Toruner C, Haines K, **Ferguson PJ**, Lionetti G, Cherian J, Zhao Y, DeLaMora P, Syverson G, Nativ S, Twilt M, Michelow IC, Stepanovskyy Y, Thatayatikom A, Harel L, Akoghlanian S, Tucker L, Marques MC, Srinivasalu H, Propst EJ, Licameli GR, Dedeoglu F, Lapidus S for the CARRA PFAPA Consensus Treatment Plan Workgroup: Consensus Treatment Plans for Periodic Fever, Aphthous Stomatitis, Pharyngitis and Adenitis Syndrome (PFAPA). *Pediatr Rheumatol*, 18:31, 2020. [Times cited: 17]
83. Zhao Y, **Ferguson PJ**: Chronic Non-bacterial Osteomyelitis and Autoinflammatory Bone Diseases. *Clin Immunol*, 216:108458, 2020. [Times cited: 7]
84. Hildebrand JM, Kauppi M, Majewski I, Liu Z, Cox A, Miyake S, Hall C, Petrie E, Tanzer MC, Young S, Garnish S, Corbin J, Li Z, Gangatirkar P, Jossefson E, Rigbye K, Anderton H, Rickard J, Tripaydonis A, Sheridan J, Scerri T, Czabotar P, Zhang JG, Stutz M, Allison C, Pellegrini M, Tannahill G, Hatchell E, Wilson T, Stockwell D, DeGraaf C, Collinge J, Hilton A, Metcalf D, Laxer RM, Bassuk AG, Darbro B, McCombe P, Browne M, Hildebrand MS, Hilton D, Kile B, Bahlo M, Masters SL, Nakano H, McLean C, **Ferguson PJ**, Murphy J, Alexander WS, Silke J: Missense mutations in the MLKL 'brace' region lead to lethal neonatal inflammation in mice and are present in high frequency in humans. *Nature Comm* 11:3150, 2020. [Times cited: 44]
85. Manthiram K, Preite S, Dedeoglu F, Demir S, Ozen S, Edwards KM, Lapidus S, Katz AE, Feder Jr HM, Lawton M, Licameli GR, Wright PF, Le J, Barron KS, Ombrello AK, Barham B, Romeo T, Jones A, Srinivasalu H, Mudd PA, DeBiasi RL, Gul A, Marshall GS, Jones OY, Chandrasekharappa SC, Stepanovskiy Y, **Ferguson PJ**, Schwartzberg PL, Remmers EF, Kastner DL: Common genetic susceptibility loci link PFAPA syndrome, Behçet's disease, and recurrent aphthous stomatitis. *Proc Natl Acad Sci* 117:14405-14411, 2020. [Times cited: 33]
86. Yeung RSM and **Ferguson PJ**: Is multisystem inflammatory syndrome in children on the Kawasaki syndrome spectrum? *J Clin Invest*, 2020 130:5681, 2020 [Times cited: 11].
87. **Ferguson PJ**, Lynton J, Resman-Targott BH and the ARP Membership & Nominations Committee. Advantages of Embedding a Specialty Pharmacist in a Rheumatology Clinic. *The Rheumatologist*. Nov issue, 2020. [Times cited: 0]
88. Perkins A, Stevens AM, **Ferguson PJ**, Zhao Y: Urinary N-telopeptide as a Biomarker of Disease Activity in Patients with Chronic Nonbacterial Osteomyelitis Who Have Not Received Bisphosphonates. *J Rheumatol* 47:12, 2020. [Times cited: 2]

89. Evans LP, Boehme N, Wu S, Burghardt EL, Akurathi A, Todd BP, Newell EA, **Ferguson PJ**, Mahajan VB, Dutca LM, Harper MM, Bassuk AG: Sex does not Influence Visual Outcomes after Blast-Mediated Traumatic Brain Injury but IL-1 Pathway Mutations Confer Partial Rescue. *Invest Ophthalmol Vis Sci* 61:7, 2020. [Times cited: 4]
90. Bhuyan F, de Jesus AA, Mitchell J, Leikina E, Van Tries R, Herzog R, Onel KB, Oler A, Montealegre Sanchez GA, Johnson KA, Bichell L, Marrero B, Huang Y, Calvo KR, Collins MT, Ganesan S, Chernomordik L, **Ferguson PJ**, Goldbach-Mansky R: Novel Majeed syndrome causing LPIN2 mutations link bone inflammation to inflammatory M2 macrophages and accelerated osteoclastogenesis, *Arthritis Rheum* 73:1021, 2021. [Times cited:8]
91. Sato TS, **Ferguson PJ**: Whole-body MRI Imaging is an Essential Tool in Diagnosing and Monitoring Patients with Sterile Osteomyelitis (Editorial). *J Rheumatol* March 2021, jrheum.201507; doi.org/10.3899/jrheum.201507. [Times cited: 2]
92. **Ferguson PJ** and El-Shanti HE: Majeed Syndrome. *Biomolecules* 2021, 11, 367. [Times cited: 8]
93. Li AS, Velez G, Darbro B, Toral MA, Yang J, Tsang SH, **Ferguson PJ**, Folk JC, Bassuk AG, Mahajan VB.: Whole Exome Sequencing of Patients with Posterior Segment Uveitis. *Am J Ophthalmol* 221, 246, 2021. [Times cited: 5]
94. Oliver M, Jayatilke A, Wu E, Nuruzzaman F, Aguiar C, Lenert A, Romano M, Simonini G, Shah S, Hollander M, Alsaleem A, Fox E, Theos A, Ramanan AV, Schnabel A, Lapidus S, Tucker L, Onel K, Ozen S, Dedeoglu F, **Ferguson PJ**, Shea B, Akikusa J, Hedrich C, Mease P, Zhao Y: Establishing Core Domain Sets for Chronic Nonbacterial Osteomyelitis (CNO) and Synovitis, Acne, Pustulosis, Hyperostosis, Osteitis (SAPHO): a report from the OMERACT 2020 Special Interest Group. *Arthritis Rheum* 2021, in press. doi: 10.1016/j.semarthrit.2021.05.015. [Times cited: 1]
95. Todd BP, Chimenti MS, Luo Z, **Ferguson PJ**, Bassuk AG, Newell EA: Traumatic brain injury results in unique microglial and astrocyte transcriptomes enriched for Type I interferon response. *J Neuroinflammation*. 2021 Jul 5;18(1):151. doi: 10.1186/s12974-021-02197. [Times cited: 7]
96. Onel K, Horton D, Lovell D, Shenoi S, Cuello Garcia C, Angeles-Han S, Becker M, Cron R, Feldman B, **Ferguson PJ**, Gewanter H, Guzman J, Horonjeff J, Kimura Y, Lee T, Murphy K, Nigrovic P, Ombrello M, Rabinovich C. Eglar; Teshler Melissa; Twilt Marinka; Klein-Gitelman Marisa; Barbar-Smiley F, Cooper A, Edelheit B, Gillispie M, Hays K, Mannion M, Peterson R, Flanagan E, Saad N, Sullivan N, Szymanski A, Trachtman R, Turgunbaev M, Veiga K, Turner A, Reston J. 2021 American College of Rheumatology Guideline for the Treatment of Juvenile Idiopathic Arthritis: Recommendations for Nonpharmacologic Therapies, Medication

## COLLEGE OF MEDICINE CURRICULUM VITAE

Polly J. Ferguson

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Monitoring, Immunizations, and Imaging. [also published simultaneously in Arthritis Care & Research.DOI 10.1002/acr.24839]. Arthritis & Rheumatol 74:570, 2022. [Times cited: 7]

97. Onel KB, Horton DB, Lovell DJ, Shenoi S, Cuello CA, Angeles-Han ST, Becker ML, Cron, RQ, Feldman BM, **Ferguson PJ**, Gewanter H, Guzman J, Kimura Y, Lee T, Murphy K, Nigrovic PA, Ombrello MJ, Rabinovich CE, Teshler M, Twilt M, Klein-Gitelman M, Barbar-Smiley F, Cooper AM, Edelheit B, Gillispie-Taylor M, Hays K, Mannion ML, Peterson R, Flanagan E, Saad N, Sullivan N, Szymanski AM, Trachtman R, Turgunbaev M, Veiga K, Turner AS, Reston JT. 2021 American College of Rheumatology Guideline for the Treatment of Juvenile Idiopathic Arthritis: Therapeutic Approaches for Oligoarthritis, Temporomandibular Joint Arthritis, and Systemic Juvenile Idiopathic Arthritis. Arthritis & Rheumatol 74:533, 2022. [Times cited: 15]
98. Romano M., Arici ZS, Piskin D, Alehashemi S, Aletaha D, Barron KS, Benseler S, Berard R, Broderick L, Dedeoglu F, Diebold M, Durrant KL, **Ferguson P**, Foell D, Jonathan Hausmann, Olcay Y Jones, Kastner DL, Lachmann HJ, Laxer RM, Rivera D, Ruperto N, Simon A, Twilt M, Frenkel J, Hoffman H, de Jesus AA, Kuemmerle-Deschner JB, Ozen S, Gattorno M, Goldbach-Mansky R, Demirkaya E. The 2021 EULAR and ACR points to consider for diagnosis, management and monitoring of the IL 1 mediated autoinflammatory diseases: Cryopyrin-associated periodic syndromes (CAPS), Tumor necrosis factor receptor-associated periodic syndrome (TRAPS), Mevalonate kinase deficiency (MKD), and Deficiency of the IL-1 receptor antagonist (DIRA). Annals Rheum Ds, Jul; 74:1102, 2022. [Times cited: 3]
99. Yasin S, Sato TS, **Ferguson PJ**: Not all benign: Disease course, complications, and sequelae of chronic recurrent multifocal osteomyelitis in children. Curr Opin Rheumatol 34:255, 2022. [Times cited: 0]
100. Bass AR, Chakravarty E, Akl EA, Bingham CO, Calabrese L, Cappelli LC, Johnson SR, Imundo FL, Winthrop K, Arasaratnam RJ, Baden LR, Berard R, Bridges, Jr. SL, Cheah JTL, Curtis JR, **Ferguson PJ**, Hakkarinen I, Onel KB, Schultz G, Sivaraman V, Smith BJ, Sparks J, Vogel T, Anderson Williams E, Calabrese C, Cunha JS, Fontanarosa J, Gillispie-Taylor MC, Gkrouzman E, Iyer PC, Legge A, Lo M, Lockwood M, Sadun RE, Showalter K, Singh N, Sullivan N, Tam H, Turgunbaev M, Turner AS, Reston J. 2022 American College of Rheumatology Guideline for Vaccinations in Patients with Rheumatic and Musculoskeletal Diseases. Arthritis & Rheumatol, 75:333, 2023. [Times cited: 0]
101. Wu EY, Oliver M, Scheck J, Lapidus S, Ummusen K, Yasin S, Stern S, Insalaco A, Pardeo M, Marrani E, Simonini G, Wang X, Huang B, Kovalick LK, Rosenwasser N, Casselman G, Liao A, Song Y, Mosa DM, Tuck L, Onel K, Dedeoglu F, Twilt M, **Ferguson PJ**, Ozen S, Zhao Y: Feasibility of Conducting Comparative

Effectiveness Research and Validation of a Clinical Disease Activity Score for Children with Chronic Nonbacterial Osteomyelitis. J Rheum, doi: 10.3899/jrheum.2022-1323. [Times Cited: 0]

102. Mohanna M, Roberts E, Whitty L, Gritzfeld JF, Pain CE, Girschick HJ, Preston J, Hadjittofi M, Anderson C, **Ferguson PJ**, Theos A, Hedrich CM: Priorities in Chronic Non-Bacterial Osteomyelitis (CNO) – Results from an International Survey and Roundtable Discussions. Ped Rheumatol, 21:65, 2023. [Times cited: 0]
103. Todd BP, Zili Luo Z, Noah Gilkes N, Michael S. Chimenti, Peterson Z, Mix M, Harty JT, Nickl-Jockschat T, **Ferguson PJ**, Bassuk AG, Newell E. Selective neuroimmune modulation by type I interferon drives neuropathology and neurologic dysfunction following traumatic brain injury. Acta Neuropath Comm, accepted August 2023.

**CARRA REGISTRY INVESTIGATORS PUBLICATIONS (Ferguson = Iowa site co-PI)**

1. Weiss PF, Beukelman T, Schanberg LE, Kimura Y, Colbert RA & CARRA Registry Investigators. Enthesitis-related Arthritis Is Associated with Higher Pain Intensity and Poorer Health Status in Comparison with Other Categories of Juvenile Idiopathic Arthritis: The Childhood Arthritis and Rheumatology Research Alliance Registry. J Rheumatol 39:2341, 2012.
2. Angeles-Han ST, Pelajo CF, Vogler LB, Rouster-Stevens K, Kennedy C, Ponder L, McCracken C, Lopez-Benitez J, Drews-Botsch C, Prahalad S & CARRA Registry Investigators: Risk Markers of Juvenile Idiopathic Arthritis-associated Uveitis in the Childhood Arthritis and Rheumatology Research Alliance (CARRA) Registry. J Rheumatol 40:2088, 2013.
3. Ringold S, Beukelman T, Nigrovic PA, Kimura Y & CARRA Registry Investigators: Race, Ethnicity, and Disease Outcomes in Juvenile Idiopathic Arthritis: A Cross-sectional Analysis of the Childhood Arthritis and Rheumatology Research Alliance (CARRA) Registry. J Rheumatol 40:936, 2013.
4. Kimura Y, Weiss JE, Haroldson KL, Lee T, Punaro M, Oliveira S, Rabinovich E, Riebschleger M, Antón J, Blier PR, Gerloni V, Hazen MM, Kessler E, Onel K, Passo MH, Rennebohm RM, Wallace CA, Woo P, Wulffraat N; Childhood Arthritis Rheumatology Research Alliance CARRA Net Investigators. Pulmonary Hypertension and Other Potentially Fatal Pulmonary Complications in Systemic Juvenile Idiopathic Arthritis. Arthritis Care Res 65:745, 2013.
5. Pelajo CF, Angeles-Han ST, Prahalad S, Sgarlat CM, Davis TE, Miller LC, Lopez-Benitez JM for the CARRA Registry Investigators: Evaluation of the association between Hispanic ethnicity and disease activity and severity in a large cohort of patients with juvenile idiopathic arthritis. Rheumatol Int 33: 2549, 2013.

6. Robinson AB, Hoeltzel MF, Wahezi DM, Becker ML, Kessler EA, Schmeling H, Carrasco R, Huber AM, Feldman BM, Reed AM; Juvenile Myositis CARRA Subgroup, for the CARRA Registry Investigators. Clinical characteristics of children with juvenile dermatomyositis: the Childhood Arthritis and Rheumatology Research Alliance Registry. *Arthritis Care Res* 66:404, 2014.
7. Prahalad S, McCracken CE, Ponder LA, Angeles-Han ST, Rouster Stevens KA, Vogler LB, Langefeld CD, Thompson SD; Childhood Arthritis and Rheumatology Research Alliance (CARRA) Registry Investigators. Familial Autoimmunity in the Childhood Arthritis and Rheumatology Research Alliance Registry. *Pediatr Rheumatol Online J* 14:14, 2016.
8. Boneparth A and Ilowite NT, for the CARRA Registry Investigators: Comparison of renal response parameters for juvenile membranous plus proliferative lupus nephritis versus isolated proliferative lupus nephritis: a cross-sectional analysis of the CARRA Registry. *Lupus*, 23:898, 2014.
9. Fitzpatrick L, Broadaway KA, Ponder L, Angeles-Han ST, Jenkins K, Rouster-Stevens K, Pelajo CF, Conneely K, Epstein MP, Lopez-Benitez J, Vogler LB, Prahalad S; CARRA Registry Investigators. Phenotypic Characterization of Juvenile Idiopathic Arthritis in African American Children. *J Rheumatol* 43:799, 2016.
10. Janow G, Schanberg LE, Setoguchi S, Hasselblad V, Mellins ED, Schneider R, Kimura Y and CARRA Legacy Registry Investigators. The Systemic Juvenile Idiopathic Arthritis Cohort of the Childhood Arthritis and Rheumatology Research Alliance Registry: 2010-2013. *J Rheum* 43: 1755, 2016.
11. Boneparth A, Wenderfer SE, Moorthy LN, Radhakrishna SM, Sagcal-Gironella ACP, von Scheven E for the CARRA Registry investigators: Clinical characteristics of children with membranous lupus nephritis: the Childhood Arthritis and Rheumatology Research Alliance Legacy Registry. *Lupus*, 2016. doi: 10.1177/0961203316662720.
12. Driest KD, Sturm MS, O'Brien SH, Spencer CH, Stanek JR, Ardoin SP, for the CARRA Registry Investigators: Factors associated with thrombosis in pediatric patients with systemic lupus erythematosus. *Lupus* 25: 749, 2016.
13. Henderson LA, Zurakowski D, Angeles-Han ST, Lasky A, Rabinovich CE, Lo MS, for the CARRA Registry Investigators: Medication use in juvenile uveitis patients enrolled in the Childhood Arthritis and Rheumatology Research Alliance Registry. *Ped Rheumatol* 14:9, 2016.
14. Prahalad S, McCracken CE, Ponder LA, Angeles-Han ST, Rouster-Stevens KA, Vogler LB, Langefeld CD, Thompson SD for the CARRA Registry Investigators. Familial autoimmunity in the childhood arthritis and rheumatology research alliance registry. *Ped Rheumatol* 14:14, 2016.

## COLLEGE OF MEDICINE CURRICULUM VITAE

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15. Fitzpatrick L, Broadaway, KA, Ponder L, Angeles-Han ST, Jenkins K, Rouster-Stevens K, Pelajo CF, Conneely K, Epstein MP, Lopez-Benitez J, Vogler LB, Prahalad S and the CARRA Registry Investigators: Phenotypic Characterization of Juvenile Idiopathic Arthritis in African American Children. *J Rheumatol* 43:799, 2016.
16. Janow G, Schanberg E, Setoguchi S, Hasselblad V, Mellins ED, Schneider R, Kumura Y and CARRA Legacy Registry Investigators. The Systemic Juvenile Idiopathic Arthritis Cohort of the Childhood Arthritis and Rheumatology Research Alliance Registry: 2010-2013. *J Rheumatol* 43:1755, 2016.
17. Zisman D, Gladman DD, Stoll ML, Strand V, Lavi I, Hsu JJ, Mellins ED and the CARRA Legacy Registry Investigators. The Juvenile Psoriatic Arthritis Cohort in the CARRA Registry: Clinical Characteristics, Classification, and Outcomes. *J Rheumatol* 44:342, 2107.
18. Kimura Y, Grevich S, Beukelman T, Morgan E, Nigrovic PA, Mieszkalski K, Graham TB, Ibarra M, Ilowite N, Klein-Gitelman M, Onel K, Prahalad S, Punaro M, Ringold S, Toib D, Van Mater H, Weis JE, Weis PF, Schanberg LE and for the CARRA Registry Investigators. Pilot study comparing the Childhood Arthritis & Rheumatology Research Alliance (CARRA) systemic Juvenile Idiopathic Arthritis Consensus Treatment Plans. *Ped Rheumatol* 15:23, 2017.
19. Beukelman T, Kimura Y, Ilowite NT, Mieszkalski K, Natter MD, Burrell G, Best B, Jones J, Schanberg LE and the CARRA Registry Investigators. The new Childhood Arthritis and Rheumatology Research Alliance (CARRA) registry: design, rationale, and characteristics of patients enrolled in the first 12 months. *Ped Rheumatol* doi: 10.1186/s12969-017-0160-6, 2017.
20. Hersh AO, Case SM, Son MB: Predictors of disability in a childhood-onset systemic lupus erythematosus cohort: results from the CARRA Legacy Registry. *Lupus* 27:494, 2018.
21. Cooper JC, Rouster-Stevens K, Wright TB, Hsu JJ, Klein-Gitelman MS, Ardoin SP, Schanberg LE, Brunner HI, Eberhard BA, Wagner-Weiner L, Mehta J, Haines K, McCurdy DK, Phillips TA, Huang Z, von Scheven E: Pilot study comparing the childhood arthritis and rheumatology research alliance consensus treatment plans for induction therapy of juvenile proliferative lupus nephritis. *Pediatr Rheumatol Online J.* 16:65, 2018. doi: 10.1186/s12969-018-0279-0.

### **ABSTRACTS - not shown**

### **B. AREAS OF RESEARCH**

## GENETICS OF CHRONIC AUTOINFLAMMATORY DISORDERS

### **Autoinflammatory bone disorders**

CRMO is an autoinflammatory disease of unknown etiology. It primarily affects children and results in recurrent fever and the development of multiple inflammatory bone lesions. It is frequently seen in association with other, more common, inflammatory disorders such as psoriasis, inflammatory bowel disease and cutaneous pustulosis. Our research has led to the discovery of several genes that when mutated can cause chronic sterile bone inflammation including *LPIN2*, *Pstpip2* (in mice), *IL1RN*, *FBLIM1* and *FGR*. We discovered the critical role of IL-1 in osteomyelitis in murine cmo (due to *Pstpip2* deficiency) and demonstrated that blocking IL-1 $\beta$  pharmacologically results in resolution of sterile osteomyelitis in Majeed syndrome. We are studying the genetics of non-syndromic CRMO utilizing whole exome sequencing. These studies will lead to improved understanding of autoinflammatory disorders, sterile bone inflammation, the pathogenesis of psoriasis and inflammatory bowel disease.

### **Other Rare Genetic Disorders**

In addition to our work on autoinflammatory bone disorders, my laboratory has continued to study pediatric conditions with early onset or family clustering of disease with the goal of identifying the causative gene. The focus is on individuals with chronic inflammatory disorders and in collaboration with Dr. Alex Bassuk, inherited neurologic disorders.

### **Role of inflammation in pediatric neurologic disease**

In collaboration with Drs. Alexander Bassuk, Vinit Mahajan and Elizabeth Newell we are studying the role of inflammation in traumatic brain injury, retinal trauma, uveitis and seizure disorders. The goal is to identify key inflammatory pathways with goal of translating this into effective treatments to improve outcomes.

### **CARRA (Childhood Arthritis & Rheumatology Research Alliance) Registry**

This organization of pediatric rheumatologists was awarded a Grand Opportunity Grant entitled "CARRAnet" to establish the network as well as a NIH Challenge Grant, "CARRA-Rx", subsequent funding has come from the Arthritis Foundation. CARRA is now incorporated and continues to fund comparative effectiveness studies and registries. Ferguson and Hong are site co-PIs.

### **CARRA/Rare Disorders Section/Linear Scleroderma working group**

Serve as a member of the CARRA working group studying juvenile linear scleroderma (jLs), a highly disfiguring disease. This group designed a comparative effectiveness trial which was funded by the Arthritis Foundation (Ferguson site co-PI).

### **CARRA/Rare Disorders Section/CRMO working group**

Serve as a member of the CARRA working group studying chronic recurrent multifocal osteomyelitis. As part of that work group, we are designed a comparative effectiveness trial. (Ferguson and Zhao co-leaders of the project).

**C. PUBLISHED REVIEWS OF SCHOLARSHIP**

1. Ashman, Robert F; **Ferguson, Polly J**; Ijdo, Jacob W; Lawry, George V, II; Moore, Mary M; Peloso, Paul M; Rachow, John W; Stafford, Haralaine A; Tuetken, Rebecca S; and Vogelgesang, Scott A: Rheumatic Diseases: Diagnosis and Management. **Chapter: Juvenile Idiopathic Arthritis (a.k.a. Juvenile Rheumatoid Arthritis).** *In* Turek's Orthopaedics: Principles and Their Application, 6/e, edited by Stuart L. Weinstein and Joseph A. Buckwalter. Philadelphia, Lippincott Williams & Wilkins, 2005.
2. **Ferguson PJ**: Chapter 16-1: Systemic Lupus Erythematosus. *In* Current Pediatric Therapy, 18/e, edited by Burg, Ingelfinger, Polin and Gershon. Philadelphia, Elsevier, 2006.
3. Gattorno M, Martini A, Goldbach-Mansky R, Aubert P, **Ferguson PJ**. Monogenic Autoinflammatory Syndromes. A Clinician's Pearls & Myths in Rheumatology. Stone JH (ed.). First edition. Springer (Dordrecht, Heidelberg, London, New York). 2009. pp. 33-50.
4. **Ferguson PJ**, Laxer RM: Autoinflammatory Bone Disorders, *In* Textbook of Pediatric Rheumatology, 6/e, edited by James Cassidy, Ross Petty, Ronald Laxer and Carol Lindsley, Philadelphia, Elsevier, 2010. pp. 661-673.
5. El-Shanti H & **Ferguson P**: Majeed Syndrome (March 2013) in: GeneReviews at GeneTests: Medical Genetics Information Resource [database online]. Copyright, University of Washington, Seattle, 1997-2010. Available at <http://www.genetests.org>.
6. de Jesus A, **Ferguson PJ** and Goldbach-Mansky R: Classic Autoinflammatory Diseases: Monogenic Autoinflammatory Diseases Caused by Defects in *CIAS1*, *MEFV*, *TNFRSF1A*, *MVK* and *PSTPIP1*, *In* Stiehm's Immune Deficiencies, 1/e, edited by Kathleen E. Sullivan and E. Richard Stiehm. Elsevier, 2014, pp. 517-550.
7. **Ferguson PJ** and Goldbach-Mansky R: Autoinflammatory Diseases Predominantly Affecting Bone and Joints, *In* Stiehm's Immune Deficiencies, 1/e, edited by Kathleen E. Sullivan and E. Richard Stiehm. Elsevier, 2014, pp. 551-572.
8. **Ferguson PJ**, Laxer RM: Autoinflammatory Bone Disorders, *In* Textbook of Pediatric Rheumatology, 7/e, edited by James Cassidy, Ross Petty, Ronald Laxer and Carol Lindsley, Philadelphia, Elsevier, pp.627-641, 2015.

9. **Ferguson PJ:** Chronic Recurrent Multifocal Osteomyelitis and Related Disorders, *In Handbook of Autoimmune Disease*, edited by Rolando Cimaz and Thomas Lehman, Elsevier, pp. 315-339, 2016.
10. **Ferguson, PJ:** Majeed Syndrome. Orphanet: ID 11109, last updated update August, 2017 (<http://www.orpha.net>)
11. Verbsky J, **Ferguson PJ:** Genetic Causes of Inflammatory Bone Disease (Majeed, Cherubism, DIRA), *In Textbook of Autoinflammation*, 1/e, edited by Hashkes, Laxer and Simon, Springer, chapter 25, pp.455-470, 2019.
12. de Jesus A, **Ferguson PJ** and Goldbach-Mansky R: IL-1 Mediated Autoinflammatory Disease: The “Classic” Hereditary Recurrent Fever Syndromes and the Inflammasomopathies, *In Stiehm’s Immune Deficiencies*, 2/e, edited by Kathleen E. Sullivan and E. Richard Stiehm. Elsevier, chapter 28, pp. 643-674, 2020.
13. **Ferguson PJ**, de Jesus A and Goldbach-Mansky R: Autoinflammatory Diseases Affecting Bone and Joints, and Autoinflammatory Interferonopathies, *In Stiehm’s Immune Deficiencies*, 2/e, edited by Kathleen E. Sullivan and E. Richard Stiehm. Elsevier, chapter 29, pp.685-712, 2020.
14. **Ferguson PJ:** Majeed Syndrome. Encyclopedia of Medical Immunology. [https://doi.org/10.1007/978-1-4614-9209-2\\_115-1](https://doi.org/10.1007/978-1-4614-9209-2_115-1). February, 2020.
15. Lenert A, **Ferguson PJ:** Comparing children and adults with chronic nonbacterial osteomyelitis. *Curr Opin Rheumatol*, 32:421, 2020. [Time cited: 3]
16. Nuruzzaman F, Zhao YD, **Ferguson PJ:** Chronic Non-bacterial Osteomyelitis Insights into Pathogenesis, Assessment and Treatment. *Rheumatic Dis Clin North America* 47: 691- 2021.
17. **Ferguson, PJ:** Autoinflammatory Bone Disease. Oxford Textbook of Rheumatology. In press.
18. Ramachandran S, Zhao Y, **Ferguson PJ:** Update on treatment responses and outcome measure development in chronic non-bacterial osteomyelitis (CNO). *Curr Opin Rheumatol*, 35(5):255-264, 2023.
19. Sato TS and **Ferguson PJ:** Importance of Recognizing Spinal Involvement in Pediatric Patients with Chronic Recurrent Multifocal Osteomyelitis. *Ped Radiol* 2023 DOI: 10.1007/s00247-023-05691-w

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### **D. GRANT FUNDING (University of Iowa)**

#### **ACTIVE**

NIH R01EY031952: (MPI Bassuk, Ferguson, Mahajan\*) 08/20 – 07/24  
Proteomic Biomarkers of Intraocular Infection \$410,002/yr  
Role: MPI, 1.2 CM

NIH R01 NS127844: (PI: Newell; co-I Ferguson 0.6 CM) 09/23 – 07/28  
Mechanisms of type I interferon neuropathology following traumatic brain injury  
The goal of this project is to determine the regulation of type I interferon signaling following TBI and the cell-specific effects of type I interferon signaling on neuropathology following TBI

K12 HD27748: (PI: Bassuk; Training Dir = Ferguson) 02/23-11/27  
NIH/NICHD: Child Health Career Development Award \$400,000/yr  
Role: Director, 1.2 CM 1.2 mo/cal yr  
The goal is to train young investigators in molecular genetics and molecular biology for use in pediatric research.

K12TR004382 (MPI: Ferguson and Bassuk) 1.2 CM 12/23-11/28  
NIH/NCAS: CTSA K12 Program at the University of Iowa  
The goal is to develop translational scientists at the University of Iowa  
Total award \$3,774,000

CARRA: Observational Study of Pediatric Rheumatic Disease 01/15 - present  
The CARRA Registry (Site co-PI with Hong) - \$ based on enrollment

CARRA: Observational Study of Pediatric Rheumatic Disease 09/16 - present  
STOPJIA (Site co-PI with Hong) - \$ based on enrollment

PCORI (PI: Weiss at CHOP; role site-PI at Iowa) 06/21-present  
Biologic Abatement and Capturing Kids' Outcomes and Flare Frequency in Juvenile Spondyloarthritis (BACK OFF JSpA) - \$ based on enrollment

Spondylitis Association of America 07/21-present  
(PI: Weiss/CHOP; site-PI Ferguson/UI)  
Anti-drug antibody development and the role of imaging to screen for axial disease flare after TNFi de-escalation - \$ based on enrollment

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### **PENDING NIH PROPOSALS**

NIH R01AR083929 (PI: Zhao)

Assessment of treatment effectiveness for children with chronic nonbacterial osteomyelitis (CBNO) – subcontract Seattle Children’s Research Institute  
(Role; Co-I; CM 1.8) – pending review

NIH (PI: Canna – CHOP) – pending review. (Ferguson 0.6 CM - \$103,565)

An Integrated Genomics Resource for Autoinflammatory and Immune Dysregulation Diseases

Major Goal: Establish a Genomics Resource for the Translational Autoinflammatory Research Network which includes housing clinical and genomic data from individuals with autoinflammatory disorders.

### **PAST FUNDING (University of Iowa) - chronological order**

NIH/NICHD: Molecular Cell Biology in Pediatric Research (PI: F. Morriss)

The Children’s Health Research Center Grant 7/01/02-6/30/05

Genetic Resistance to Murine Lupus (PI: Ferguson) \$50,000/yr

Children’s Miracle Network Project #1615 (PI: El-Shanti/Ferguson) 2/1/04-1/30/06  
Role of LPIN2 in CRMO \$40,000

Carver MRIG Pilot Project Grant (PI: El-Shanti) 02/05-01/07  
Role of LPIN2 in the Etiology of Psoriasis \$30,000  
Role: Co-investigator

1 R21 AR053924-01: NIH/NIAMS (PI: El-Shanti) 08/06-04/08  
Examination of the role of LPIN2 variations in skin and bone inflammation  
Role: Co-investigator, 5% effort \$275,000 total

1 R03 AR051130-01: NIH/NIAMS (PI: Ferguson) 4/01/05-3/31/08  
Genetic Basis of Chronic Recurrent Multifocal Osteomyelitis \$150,000 total

Children’s Miracle Network 01/08-12/09  
The role of SH3BP2 in a unique familial autoinflammatory disorder \$40,000  
affecting the bone and skin  
Role: PI

Peregrine Charities 04/08  
Autoinflammatory Bone Disorders \$22,500  
Role: PI

Carver Collaborative Pilot Grant 02/09

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A novel microarray based technique for mapping human disease causing mutations  
Role: PI (co-investigators: John Manak, Alex Bassuk) \$50,000 total

Care for Kids 02/09  
Autoinflammatory disorders \$22,000 total

510-17-3255-81000-12194900-20: (PI: Carol Wallace) 07/09-12/13  
NIH/NIAMS: ARRA - CARRA Registry  
Subcontract: Duke University – \$ based on enrollment  
Role: Site co-PI (no salary support)

1R01AR059703 07/10-05/20  
NIH/NIAMS: Parent R01 (PI: Ferguson) \$337,500/yr  
Genetic & immunologic etiology of chronic recurrent multifocal osteomyelitis-CRMO  
Role: PI (35% effort) 4.2 mon/cal yr

Friends of CARRA: (PI: Stoll; site PI: Ferguson) 06/14- 06/16  
Enteric Flora in Newly Diagnosed Spondyloarthritis  
Subcontract: University of Alabama at Birmingham - \$ based on enrollment

Carver College of Medicine Bridge Funding (PI: Ferguson) 07/15 – 06/16  
Genetic and Immunologic Etiology of CRMO \$100,000

Arthritis Foundation: (PI: Li; site co-PI : Ferguson, Hong) 01/13-2016  
CARRA Registry:  
Localized Scleroderma Consensus Treatment Plan 0.15 mon/cal yr  
Subcontract: Hakensack University – \$ based on enrollment

CARRA & AF Study Coordinator Grant (Ferguson and Hong) 04/18  
Fifty percent of study coordinator salary \$27,000

2R01AR059703-10A1 (MPI: Ferguson [contact], Bassuk) 07/10-08/20  
NIH/NIAMS: Parent R01  
Genetic & Immunologic Etiology of Chronic Recurrent Multifocal Osteomyelitis-  
CRMO \$380,684/yr  
Role: PI (30% effort- 3.6 cal mo.) Total award: \$1,919,298

R01NS098590 (PI: Bassuk; co-I: Ferguson) 07/16-06/21  
NIH/NINDS: Parent R01 \$354,532/yr  
Exploring Novel Epilepsy Pathways, 10% effort – 1.2 cal mo.

CARRA-Arthritis Foundation Small Grant Application 07/19- 6/30/20  
(PI: Hedrich, co-I Ferguson) \$23,000

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Patient Stratification through Molecular Immune Phenotyping in Psoriasis and Psoriatic JIA)

Children's Miracle Network (PI: Ferguson)	07/21-06/22
Role of fat metabolism in Sterile Osteomyelitis	\$50,000

### **OTHER GRANTS SCORED IN FUNDING RANGE BUT NOT FUNDED**

1K08AR052685-01: NIH/NIAMS (PI Ferguson)	Feb 2005
Chronic Multifocal Osteomyelitis	
Score: 161	

Administratively withdrawn by IC because 1 R03 AR051130-01 was awarded to Ferguson as PI which per NIAMS institute specific rule made PI ineligible for K award.

Carver Medical Research Initiative Grant (Role: PI)	02/09-01/10
Gene identification in Familial Rheumatic Disorders	\$30,000 total
<b>[Scored in fundable range but could not accept 2 Carver grants in same year, accepted Carver Collaborative Grant instead]</b>	

### **E. INVITED LECTURES**

#### **Local**

06/97 UVA Beirne B. Carter Center RIP: "Genetics of Type I Diabetes, from Mice to Men", Charlottesville, VA

05/99 UVA Beirne B. Carter Center RIP: "The role of CD8+ T cells in diabetes in the NOD mouse", Charlottesville, VA

08/01 UAB Pediatric Grand Rounds: "The Genetics of Autoimmune Disease", Birmingham, AL

10/01 UAB 46<sup>th</sup> Annual Lowe Conference on Rheumatic Diseases "How to Become More Comfortable Caring for Children with Rheumatic Diseases", Camp McDowell, Nauvoo, AL

09/02 UI Rheumatology Clinical Conference: "Chief Complaint of Arthritis or Arthralgia; Clues to Non-Rheumatic Etiology", Iowa City, IA

11/02 UI Internal Medicine Rheumatology Research Conference: "Genetic Resistance to Murine Lupus", Iowa City, IA

05/03 UI Pediatric Research Day: "Genetic Resistance to Murine Lupus", Iowa City, IA

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- 10/03 UI Internal Medicine Rheumatology Research Conference: "Chronic Recurrent Multifocal Osteomyelitis: A monogenic model for multifactorial inflammatory disorders", Iowa City, IA
- 10/03 Iowa Dermatologic Society Meeting: "Genetics of SLE", Iowa City, IA
- 12/03 Department of Pediatrics Faculty Research Presentation: "Genetic Resistance to Murine Lupus", Iowa City, IA
- 05/04 UI Pediatric Research Day: "Genetically Determined Inflammatory Abnormalities in the cmo Mouse", Iowa City, IA
- 05/04 Iowa Rheumatology Symposium: "Rheumatologic Manifestations of Non-rheumatic Diseases in the Pediatric Population", Coralville, IA
- 04/05 UI Department of Pediatrics Grand Rounds: SLE: "What's New with this Old Disease?", Iowa City, IA
- 05/05 Iowa Rheumatology Symposium: "Oh, By The Way, He Is Sort Of Short Of Breath: The shrinking lung syndrome in SLE", Coralville, IA
- 09/05 UI Internal Medicine Rheumatology Research Conference: "Genetics of Murine Lupus", Iowa City, IA
- 05/06 Iowa Rheumatology Symposium: "Thick Skin in Children", Coralville, IA
- 10/06 University of Iowa Allergy Symposium: "Pediatric Rheumatology Update: The Autoinflammatory Syndromes", Iowa City, IA
- 01/07 UI Immunology Seminar: "Chronic Recurrent Multifocal Osteomyelitis", Iowa City, IA
- 04/07 Pediatric Hematology & Oncology Noon Conference: "Autoinflammatory Disorders"
- 12/08 Internal Medicine Allergy & Immunology Grand Rounds: "Monogenic Autoinflammatory Disorders"
- 01/09 UI Department of Pediatrics Grand Rounds: "Autoinflammatory Bone Disorders: From the Bench to the Bedside and Back"
- 03/09 UI Pediatric Research Day: "Deficiency of the Interleukin-1 Receptor Antagonist (DIRA) causes autoinflammatory bone and skin disease"

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- 09/09 **Plenary** Talk for the University of Iowa Roy J. and Lucille A. Carver College of Medicine's Medical Student Research Day "What You Can Learn from a Few Interesting Patients".
- 11/09 UI Department of Dermatology Grand Rounds: "Autoinflammatory Disorders that Affect the Bone and Skin"
- 05/10 UI Pediatric Grand Rounds: "Pediatric Rheumatology: Where we've been, where we are, where we are going"
- 05/10 Iowa Rheumatology Symposium: "Autoinflammatory Disorders: What a Rheumatologist Needs to Know"
- 05/11 Iowa Rheumatology Symposium (Hong and Ferguson): "Night-time Limb Pain in Children"
- 06/11 MSTP and undergraduate summer research program CCOM: "Autoinflammatory Disorders of the Bone"
- 09/11 University of Iowa Orthopedics Conference "Inflammatory Bone Disorders"
- 12/11 University of Iowa Immunology Grand Rounds: "Bones and Crohn's and Skin... Oh My"
- 10/12 University of Iowa Pediatric Grand Rounds. "Genetic Approach to Understanding Autoinflammatory Disorders"
- 09/13 University of Iowa Orthopedics Conference: "Autoinflammatory Disorders of the Bones and other Rare Bone Disorders"
- 02/15 University of Iowa Frontiers in Pediatric Research: "Sterile Osteomyelitis and Innate Immunity"
- 09/15 University of Iowa Orthopedics Conference: "Chronic Recurrent Multifocal Osteomyelitis"
- 04/16 University of Iowa Pediatric Research Day: "Autoinflammatory Bone Disease -Finding the Genes"
- 06/16 UI MSTP and undergraduate summer research program CCOM: "Immunologic and genetic basis of CRMO".

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- 02/17 UI Rheumatology/Immunology Grand Rounds: "Genetics and Immunologic Basis of CRMO".
- 05/17 UI Immunology Research in Progress: "Autoinflammatory Bone Disease"
- 04/19 Blank Children's Hospital Pediatric Grand Rounds: "Bones and Crohns and Skin: Oh My", Des Moines, IA
- 05/19 UI Dermatology Grand Rounds: "Autoinflammatory Disorders and their Treatment"
- 05/19 Iowa Rheumatology Symposium: "Sterile osteomyelitis in children and adults", Coralville, IA
- 06/21 University of Iowa Dermatology Grand Rounds: "Clinical Features of Autoinflammatory Disorders"
- 06/22 University of Iowa Adult Rheumatology Faculty and Fellows: "Autoinflammatory Disorders"

### **National/International Invited Talks**

- 01/04 American Academy of Pediatrics, Alabama Chapter, Winter Meeting 2004: "Juvenile Idiopathic Arthritis/Diagnosis and Treatment", Birmingham, AL
- 01/04 American Academy of Pediatrics, Alabama Chapter, Winter Meeting 2004: "Rheumatologic Manifestations of Non-Rheumatologic Disorders", Birmingham, AL
- 11/05 University of Alabama at Birmingham Pediatric Grand Rounds: "Systemic Lupus Erythematosus: What is New with this Old Disease?" Birmingham, AL
- 11/05 University of Alabama at Birmingham Cystic Fibrosis Center, CF Round Table: "Rheumatic Manifestations of Cystic Fibrosis", Birmingham, AL
- 11/05 University of Alabama at Birmingham Rheumatology Grand Rounds: "Genetic Basis of CRMO", Birmingham, AL
- 10/06 Cassidy Symposium to honor Dr. Cassidy's outstanding contributions to the field of Pediatric Rheumatology as part of the festivities surrounding his retirement from the University of Missouri: "Chronic Recurrent Multifocal Osteomyelitis", Columbus, MO

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- 11/06 National Institute of Health/NIAMS Rheumatology Grand Rounds: "Genetics of CRMO", Bethesda, MD.
- 11/06 American College of Rheumatology Annual Scientific Meeting. "The Genetics of CRMO: Lessons Learned from Mice and Men" as part of the ACR Clinical Symposium entitled "Chronic Recurrent Multifocal Osteomyelitis (CRMO) and Related Conditions". Tuesday, November 14, 2006.
- 03/07 Harvard/Boston Children's Pediatric Rheumatology Grand Rounds. "CRMO: The new kid on the autoinflammatory block", Boston, MA
- 06/07 ACR/EULAR International Exchange: Vienna General Hospital and Hietzing Hospital. "Update on the Genetics and Immunology of CRMO", **Vienna, Austria**
- 06/07 ACR/EULAR International Exchange: German Rheumatism Research Centre (DRFZ) and Charite Medical School. "Genetics and Immunology of CRMO", **Berlin, Germany**
- 03/08 ACR Keystone Pediatric Rheumatology Symposium Bench to Bedside Symposium, "Autoinflammatory Disorders of the Bone", Keystone, CO.
- 09/08 NIH/NIAMS sponsored conference on CRMO/SAPHO and Behcet syndrome, Bethesda, MD
- "The clinical and genetic spectrum of CRMO/SAPHO"
  - "Pathophysiology of CRMO recent discoveries in a mouse model"
  - Workshop: Clinical Criteria and Definition of Entry Criteria into a Clinical Trial
- 05/09 Pediatric Academic Societies' Annual Meeting, Osteoarticular Disease and Infection Symposium, "Genetics of Multifocal Osteomyelitis", Baltimore, MD
- 05/09 NIH/NIAMS sponsored conference on DIRA (Deficiency of Interleukin 1 receptor antagonist). "Autoinflammatory Bone Disorders", Bethesda, MD
- 09/09 Food and Drug Administration Seminar: Meet the Experts: Pediatric Orthopaedics  
"Introduction to Pediatric Musculoskeletal Disease: Unmet Device Needs or Understanding device treatment options within a Regulatory Framework: Why are we troubleshooting from the back table?" Ferguson presentation 'Juvenile Idiopathic Arthritis and the Spondyloarthropathies', Silversprings, MD

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- 10/09 American College of Rheumatology (ACR) Annual Scientific Meeting. Meet the Professor Session “Periodic Fevers in Children”, Philadelphia, PA
- 10/09 American College of Rheumatology Basic Research Conference: “Autoinflammatory Bone Disorders”, Philadelphia, PA.
- 12/09 Citywide Rheumatology Conference, “An Overview of the Autoinflammatory Disorders”, Minneapolis, MN
- 12/09 Pediatric Grand Rounds at the University of Minnesota, “Rare inflammatory bone disorders a window into the pathogenesis of psoriasis and IBD”, Minneapolis, MN
- 05/10 Rheumatology Grand Rounds at Georgetown University, “Autoinflammatory Bone Disorders”, Washington, DC.
- 09/10 Autoinflammation 2010: The 6<sup>th</sup> International Meeting on Familial Mediterranean Fever and Systemic Autoinflammatory Syndromes. “Mouse Models of CRMO”, **Amsterdam, The Netherlands**
- 11/10 American College of Rheumatology (ACR) Annual Scientific Meeting. Meet the Professor Session “Periodic Fevers in Children”, Atlanta, GA.
- 01/11 Pediatric Grand Rounds at Indiana University/Riley Children’s Hospital, “Rare inflammatory bone disorders: insights into the pathogenesis of psoriasis and IBD”, Indianapolis, IN
- 01/11 Visiting Professor, Pediatric Rheumatology, University of Texas Southwestern, Children’s Hospital, Dallas, TX
- Pediatric Grand Rounds: “Autoinflammatory Bone Disorders”
  - Pediatric Resident Noon Conference: “Pediatric vasculitis syndromes: Henoch-Schonlein Purpura and Kawasaki syndrome”
- 01/11 Rheumatology Grand Rounds, University of Texas Southwestern, “Autoinflammatory Disorders: What an Adult Rheumatologist Needs to Know”, Dallas, TX
- 03/11 Pediatric Grand Rounds, DuPont Children’s Hospital. “Chronic inflammation of the bone—is the answer in the genes?”, Wilmington, DE
- 04/11 Visiting Professor, Department of Pediatrics, University of Virginia Charlottesville, VA
- Pediatric Grand Rounds: “Bones and Crohn’s and Skin.... Oh my”
  - Pediatric Resident Noon Conference: “Pediatric Rheumatology Cases”

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- Pediatric Fellowship Program Annual Symposium invited guest & judge
- 11/11 American College of Rheumatology (ACR/ARHP) Annual Scientific Meeting: Meet the Professor: “Hereditary Autoinflammatory Disorders”, Chicago, IL.
- 11/11 ACR/ARHP Annual Scientific Meeting: “Chronic Non-Infectious Osteitis – Associated Inflammatory Conditions”, Chicago, IL.
- 11/11 Southern California Rheumatology Society Meeting: “Bones and Crohn’s and Skin... Oh My”, Los Angeles, CA
- 12/11 University of California at Los Angeles Pediatric Immunology and Rheumatology Conference: “Bones and Crohn’s and Skin... Oh My”, Los Angeles, CA
- 02/12 American College of Rheumatology Research and Education Fund/Amgen Pediatric Rheumatology Visiting Professorship Award. St. Joseph’s Hospital & Medical Center, Phoenix, AZ. Included the following talks:
  - Phoenix Children’s Hospital Grand Rounds: “CRMO”, Phoenix, AZ
  - Phoenix Children’s Hospital Noon Conference: “Periodic Fever Syndromes”
  - St. Joseph’s Hospital Pediatric Residency Noon Conference: “The Pediatric Musculoskeletal Examination”
- 06/12 Annual European Congress of Rheumatology “EULAR 2012”, Session Title: “Emerging genetics and molecular aspects of autoinflammatory bone disease”, **Berlin, Germany**
- 11/12 American College of Rheumatology Annual Scientific Meeting. **State-of-the-Art** session on “Chronic Recurrent Multifocal Osteomyelitis”. Washington, DC
- 04/13 Rheumatology Grand Rounds Northwestern University, Department of Internal Medicine, Chicago, IL.
- 04/13 Pediatric Grand Rounds Northwestern University, “Bones and Crohn’s and Skin, Oh My” Chicago, IL.
- 05/13 Pediatric Grand Rounds, “Bones and Crohn’s and Skin, Oh My” at The University of Utah, Department of Pediatrics, Salt Lake City, UT
- 05/13 Research Seminar at the National Institutes of Health/NIAMS, “Autoinflammatory Bone Disease: Role of IL-1 in disease pathogenesis”. Bethesda, MD

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- 06/13 2<sup>nd</sup> International Meeting on Nonbacterial Osteitis, “Genetics of the syndromic forms of CRMO”. **Munich, Germany**
- 07/13 National Juvenile Arthritis Conference, Keynote speaker, “Autoinflammatory disease”, Anaheim, CA
- 12/13 Pediatric Grand Rounds, “Bones and Crohn’s and Skin, Oh My” at Goryeb Children’s Hospital, Morristown, NJ
- 12/13 Pediatric Grand Rounds, “Bones and Crohn’s and Skin, Oh My” at Overlook Medical Center, Summit, NJ
- 04/14 American College of Rheumatology’s Pediatric Rheumatology Symposium, “Roundtable presentation on chronic recurrent multifocal osteomyelitis, Orlando, FL
- 04/14 American College of Rheumatology State-of-the-Art (SOTA) Fellows’ Conference,– Round Table Career Mentoring, Chicago, IL
- 05/14 First Annual Frank Saulsbury Lectureship in Lateral Thinking, “It’s not just bad luck: What I learned from Frank Saulsbury and children with rare disorders” at the University of Virginia, Charlottesville, VA
- 12/14 NIH/NIAMS Rheumatology Grand Rounds, Autoinflammatory Bone Disease; An Update on Genetics, Bethesda, MD
- 02/15 University of Pennsylvania/Children’s Hospital of Philadelphia Grand Rounds, “Bones and Crohn’s and Skin, Oh My”: Autoinflammatory Bone Disease, Philadelphia, PA
- 03/15 New York University Pediatric Rheumatology Course, “Chronic Recurrent Multifocal Osteomyelitis”, New York City, NY
- 09/15 3<sup>rd</sup> International Meeting on Nonbacterial Osteitis (CNO), “Animal Models of CNO”, **Dresden, Germany**
- 10/15 8<sup>th</sup> International Congress of Familial Mediterranean Fever and Systemic Autoinflammatory Diseases (ISSAID), “Autoinflammatory Bone Disease”, **Dresden, Germany**
- 11/15 American College of Rheumatology Annual Scientific Meeting, part of the Clinical Symposium entitled “Chronic Nonbacterial Osteomyelitis

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(CNO): From the Bedside to the Bench” – Ferguson talk entitled, “The Genetics of Chronic Nonbacterial Osteomyelitis”, San Francisco, CA

- 01/16 Children’s Mercy Hospital: Pediatric Grand Rounds (CRMO), Pediatric Resident Noon Conference (Periodic Fevers) and Academic Scholarship Conference presentations (Sterile Osteomyelitis and Innate Immunity). Kansas City, MO
- 02/16 Vanderbilt University Special Seminar for Peds ID and Vanderbilt Center for Bone Biology entitled “Sterile Osteomyelitis and Innate Immunity”, Nashville, TN
- 04/16 Hospital for Sick Children, University of Toronto: Abraham Shore Memorial Lecture in Pediatric Rheumatology during Department of Pediatric Grand Rounds. **Toronto, Ontario, Canada**
- 09/16 Cassidy Symposium: “Bones and Crohns and Skin: Oh My!”, Columbus, MO
- 06/17 4th International Meeting on Chronic Nonbacterial Osteomyelitis "Autoinflammatory Bone Diseases - Insights from Animal Models and Monogenic Diseases", **Würzburg, Germany**
- 11/17 2017 ACR/ARHP Annual Scientific Meeting – “The Role of Clinical Pharmacy Specialists in a Pediatric Rheumatology Clinic”, San Diego, CA
- 11/17 2017 ACR/ARHP Annual Scientific Meeting – “IL-1 mediated diseases through the lifespan”, San Diego, CA
- 09/18 Pediatric Rheumatology European Society Annual Meeting – “Animal Models of CNO” – **Lisbon, Portugal**
- 10/18 CHRCDA Annual Meeting “Finding a Good Mentor & Being a Good Mentee”; Michael DeBaun, Polly Ferguson and Alexander Bassuk, Vanderbilt, Nashville, TN.
- 11/18 2018 ACR/ARHP Annual Scientific Meeting – “SAPHO syndrome in adults”, Chicago, IL
- 12/18 Hospital for Special Surgery Rheumatology Department of Medicine Grand Rounds “Chronic recurrent multifocal osteomyelitis and other autoinflammatory bone disorders”, NYC, NY
- 01/19 CARRA Registry Retreat: “Study Coordinator Grant Success at UI”, (Jan 2019) Orlando, FL

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- 06/19 Annual European Congress of Rheumatology (EULAR) 2019: Session: Tackling inflammatory bone disorders in children and adults. "CRMO/CNO: Diagnosis and clinical management from bench to bedside". **Madrid, Spain**
- 12/19 NIH/NIEHS Clinical Research Branch Meeting, invited speaker. "Autoinflammatory bone disease". Bethesda, MD.
- 04/20 Pediatric Rheumatology Society of India, **Bangalore, India**  
"Autoinflammatory Bone disease". Given via Zoom. Arranged by Dr. Anand Rao at Manipal Hospital.
- 05/20 ACR Pediatric Rheumatology Symposium, invited speaker, New Orleans – cancelled due to COVID19
- 05/20 Pediatric Grand Rounds, Albert Einstein Medical School, Bronx, NY – virtual visit. "Chronic recurrent multifocal osteomyelitis: From bench to bedside"
- 08/20 Pediatric Grand Rounds, Emory University, Atlanta, GA. "Sterile Osteomyelitis in Children" given via zoom.
- 10/20 Pediatric Grand Rounds, University of Pittsburgh (zoom). CNO
- 11/20 American College of Rheumatology Annual Meeting, invited speaker (virtual)
- 11/20 8<sup>th</sup> Annual Kennedy Lecture, University of Alabama at Birmingham (zoom)
- 11/20 Alabama Society of Rheumatic Diseases, Birmingham, AL (zoom)
- 01/21 Pediatric Grand Rounds, Rutgers University (zoom)
- 04/21 Institute of Life Course and Medical Sciences Seminar Series, **University of Liverpool, UK** (zoom)
- 05/21 ACR Pediatric Rheumatology Symposium, invited speaker (zoom)
- 08/21 **Pan-American League of Associations for Rheumatology (PANLAR)**, 'Autoinflammatory Syndromes that Affect the Bone'; International virtual meeting in 2021.
- 09/21 UCSF Pediatric Rheumatology Educational Conference, San Francisco (zoom)
- 11/21 Cornell University, Pediatric Grand Rounds, New York, NY (zoom)

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- 12/21 Feinstein Research Institute/Cohen Children's Hospital Pediatric Rheumatology Educational Conference, New Hyde Park, NY (zoom)
- 04/22 Peds Rheum Fellows Conference – Albert Einstein Medical School, Bronx, NY (zoom)
- 05/22 Genetics of CNO – 1<sup>st</sup> International Conference on CNO & Autoinflammatory Bone Disease in **Liverpool, UK** (meeting co-organizer with Drs. Christian Hedrich and Alex Theos)
- 10/22 Ohio Association of Rheumatology (and hopefully also OSU Rheumatology Grand Rounds if the timing can work out) for the annual OAR meeting 10/7-8 in Columbus – October 7 & 8, 2022 Columbus, OH
- 11/22 Pediatric Grand Rounds, 'Autoinflammatory Bone Disease', University of Texas Southwestern, Dallas, TX (zoom).
- 11/22 Pediatric Rheumatology Conference (peds rheum, ortho), UTSW. CRMO, DDx and Interesting Cases. (zoom)
- 03/23 XIX Congreso Colombiano de Reumatologia and X Congreso Colombiano Reumatologia Pediatrica. "Osteomielitis Cronica no Bacteriana", **Medellín, Columbia, South America.**
- 05/23 Pediatric Grand Rounds at Brown University, Providence, RI
- 05/23 Society for Pediatric Radiology (SPR) 2023 Annual Meeting and Postgraduate Course Keynote address, 'CRMO/CNO Clinical Perspective: How Imaging Affects Treatment', Austin, Texas
- 06/23 European League Against Rheumatism International Congress, **Milan, Italy.**
- 08/23 Primary Children's Hospital, Special Pediatric Rheumatology Lecture, Salt Lake City, Utah. 'Clinical case review CRMO/CNO'.
- 08/23 Musculoskeletal Infection Society (MSIS) Annual Meeting, 'Mimics of Sterile Osteomyelitis – CRMO'. Salt Lake City, UT.
- 09/23 University of Florida Gainesville, Pediatric Rheumatology Conference. 'CRMO/CNO Diagnosis and Management'. (virtual)

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10/23 IDWeek 2023- Pathophysiology and management of chronic recurrent osteomyelitis and other autoinflammatory disorders resembling infectious diseases. Boston, MA

10/23 Newman Lecture, Department of Pediatrics Grand Rounds: 'Chronic Non-Bacterial Osteomyelitis'. Rainbow Babies Hospital, Case Western Reserve, Cleveland, OH

### **Future:**

11/23 American College of Rheumatology Annual Meeting invited speaker  
"Expanding Clinical presentations of CNO" during the session entitled  
"Current Approaches To Chronic Non-Bacterial Osteomyelitis (CNO) Care",  
San Diego, CA

## **IV. SERVICE**

### **Editorships**

2009 - present: Section Editor, Current Opinion in Rheumatology section on Pediatrics and Heritable Disorders.

### **Websites**

2009- Reviewer of Majeed Syndrome and LPIN2 material  
Genetics Home Reference staff at the U.S. National Library of Medicine

2009- INFEVERS database on autoinflammatory syndromes  
Editor of the *IL1RN* mutation database for DIRA (deficiency of the interleukin-1 receptor antagonist) <http://fmf.igh.cnrs.fr/ISSAID/infevers>

### **Reviewer (grants/manuscripts/research programs/abstracts)**

Reviewed for the following journals:

*Acta Paediatrica*  
*Acta Rheumatologica Portuguesa*  
*Annals of Rheumatic Disease*  
*Arthritis & Rheumatology*  
*Arthritis Care and Research*  
*Autoimmunity*  
*British Journal of Dermatology*  
*Case Reports in Orthopedics*  
*Cell Reports*  
*Clinical and Experimental Rheumatology*

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*Clinical Immunology*  
*Expert Reviews of Clinical Immunology*  
*Frontiers in Immunology*  
*Gene Reviews*  
*International Journal of Pediatrics*  
*Journal of the American Podiatric Medical Association*  
*Journal of Biomedicine & Biotechnology*  
*Journal of Cell Biology*  
*Journal of Clinical Rheumatology and Musculoskeletal Medicine*  
*Journal of Clinical Immunology*  
*Journal of Clinical Investigation*  
*JCI Insight*  
*Journal of Experimental Medicine*  
*Journal of Investigative Dermatology*  
*Journal of Investigative Medicine*  
*Journal of Pediatrics*  
*Journal of Rheumatology*  
*Molecular Biology Reports*  
*Molecular Immunology*  
*Molecular Pain*  
*Nature*  
*Nature Communications*  
*New England Journal of Medicine*  
*Pediatric Pulmonology*  
*Pediatric Radiology*  
*Pediatric Rheumatology*  
*Pediatrics*  
*PLoS ONE*  
*Seminars in Arthritis & Rheumatism*

2005	University of Iowa's GCRC, grant review
2006	Arthritis Foundation's Iowa Chapter, grant review University of Iowa's GCRC, grant review Reviewed 2 manuscripts
2007	Carver Collaborative Pilot Grant, grant review Carver Medical Research Initiative Grant, 3 grants reviewed Reviewed 5 manuscripts
2008	Arthritis Foundation: Molecular Biology/Genetics section, 4 grants reviewed. Carver Medical Research Initiative Grant, 1 grant reviewed

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- UI Med Student Research Council: 2 M1 and 1 pre-M1 research grants  
Reviewed 14 manuscripts
- 2009 UI Med Student Research Council: 4 M1 summer research grants  
T32 UI institutional grants: 3 proposals reviewed  
Reviewed 8 manuscripts
- 2010 Carver Collaborative Pilot Grant, 2 grants review  
Carver Medical Research Initiative Grant, 2 grants reviewed  
Arthritis Foundation: Juvenile Arthritis Section, 5 grants reviewed  
Arthritis Foundation, leadership panel to rank JA grants  
Medical Research Council, **United Kingdom** (expert review)  
Reviewed 10 manuscripts
- 2011 Carver Collaborative Pilot Grant, 2 grants review  
Carver Medical Research Initiative Grant, 2 grants reviewed  
Sultan Qaboos University, **Oman**, (expert grant review)  
Reviewed 11 manuscripts
- 2012 Carver Collaborative Pilot Grant, 3 grants reviewed  
Carver Medical Research Initiative Grant, 1 grant reviewed  
**Netherlands** "Horizon Program: Zenith Project", 1 grant reviewed  
**NIH/NIAMS** P30 RDCC Applications, ad hoc reviewer  
Reviewed 11 manuscripts
- 2013 Carver Medical Research Initiative Grant, 4 grants reviewed  
**NIH/NIAMS** Intramural clinical trials, reviewer  
Reviewed 9 manuscripts
- 2014 Carver Medical Research Initiative Grant, 4 grants reviewed  
Pre-M1 Student Summer Research Fellowship proposals, 3 reviewed  
Reviewed 16 manuscripts
- 2015 Carver Collaborative Grant, 1 grant reviewed  
CCOM Student Summer Research Fellowship proposal reviews  
CCOM Immunology T32, 2 applications reviewed  
**NIH/NICHD** CHRCDA K12 applications, ad hoc reviewer  
Arthritis Research **United Kingdom** grant review, *ad hoc* reviewer  
Arthritis Foundation grant review, *ad hoc* reviewer  
Reviewed 4 manuscripts
- 2016 Reviewed CCOM Student Summer Research Proposals  
Reviewed CCOM Medical Student RDT applications

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- NIH/NIAMS P30 Rheumatology Research Core Center grants, *ad hoc***  
**Arthritis Research United Kingdom** - 1 grant reviewed  
**Canada Foundation for Innovation** – 1 grant reviewed  
Reviewed 13 manuscripts
- 2017      **NIH/NIAMS P50 Centers of Research Translation, *ad hoc* 03/17**  
**NIH/NIAMS Board of Scientific Counselors, *ad hoc* 04/17**  
**NIH/NIAID Board of Scientific Counselors, *ad hoc* 06/17**  
**NIH/NIAID Board of Scientific Counselors, *ad hoc* 12/17**  
**Swedish National Science Foundation** – 1 grant reviewed  
Reviewed 5 manuscripts
- 2018      Arthritis Research **United Kingdom** – 1 grant reviewed  
**NIH/NIAID Board of Scientific Counselors** (5 year term)  
Reviewed 6 manuscripts
- 2019      Dance Marathon/CMN Grant Review – 1 grant  
Reviewed 1 manuscript  
**NIH/NIAID Board of Scientific Counselors – 2 times/yr**  
**NIH/NIAMS P30 Rheumatology Research Core Center grant review**  
**NIH/NIAMS Rare Disease SBIR Grant review**
- 2020      Reviewed 9 manuscript (JCI x 3, A&R x 2, ARD, JOCI, J Rheum)  
CARRA abstract reviewer  
**NIH/NIAMS Board of Scientific Counselors (*ad hoc*)**  
**NIH/NIAID Board of Scientific Counselors co-Chair, twice/yr**
- 2021      Reviewed 5 manuscript (JCI x 2, JCI Insight, J Rheum)  
**NIH/NIAMS P30 Rheumatology Research Core Center, reviewer**  
**NIH/NIAMS Board of Scientific Counselors (*ad hoc*)**  
**NIH/NIAID Board of Scientific Counselors co-Chair, twice/yr**  
**United Kingdom Medical Research Council Grant Review**
- 2022      Reviewed 3 manuscripts (Nature Comm, Frontiers Immunol, Clinical Immunol)  
**NIH/NIAID Board of Scientific Counselors co-Chair, June 2022**  
**ACR Abstract Review Committee – Innate Immunity, June 2022**
- 2023      **NIH/NIAMS P30 Rheumatology Research Core Center grant review**  
**French National Research Agency (ANR) AAPG 2023 [grant review]**  
**Deutsche Forschungsgemeinschaft (DFG) – Grant review, 2023**  
**ACR Abstract Reviewer -- Innate Immunity, June 2023**  
**NIH/NIAMS Board of Scientific Counselors – standing member**  
**Manuscripts reviewed - 1**

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### **University Service**

09/02	Judge, U of I Medical Student Research Day Poster Presentations
09/04	Judge, U of I Medical Student Research Day Poster Presentations
04/05	Judge, U of I Doris Duke Research Day Presentations
05/05	Judge, Graduate Student Poster Session of COM/CPH/VA Iowa City Health Care System Research Week
05/05	Judge, Postdoctoral Fellows/Resident Poster Session of COM/CPH/VA Iowa City Health Care System Research Week
09/05	Judge, U of I Medical Student Research Day Poster Presentations
09/06	Judge, U of I Medical Student Research Day Poster Presentations
09/07	Judge, U of I Medical Student Research Day Poster Presentations
09/09	Judge, U of I Medical Student Research Day Poster Presentations
03/10	Judge, U of I, Department of Pediatrics Research Day Poster Presentations
04/10	Judge, U of I Doris Duke Research Day Presentations
09/10	Judge, U of I Medical Student Research Day Poster Presentations
08/11	Faculty Facilitator, CCOM New Faculty Orientation Session (for new tenure track faculty).
04/12	Judge, U of I Department of Pediatrics Research Day Poster Presentations
04/12	Judge, U of I Doris Duke Research Day Presentations
09/12	Judge, U of I Medical Student Research Day Presentations
04/13	Judge, U of I Pediatric Research Day Poster Presentations

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09/13	Judge, U of I Medical Student Research Day Poster Presentations
03/14	Co-facilitator for CCOM session for junior faculty entitled "Are You Ready for Promotion? Is Your Work Achieving the Depth & Breath for Promotion?"
04/14	Judge, U of I Pediatric Research Day Poster Presentations
09/14	Judge, U of I Medical Student Research Day Poster Presentations
01/16	Panelist: CCOM session "Management Skills for the Academician"
04/16	Judge, U of I Pediatric Research Day Poster Presentations
12/16	Co-facilitator for CCOM session for junior faculty entitled "How Our Unconscious Interpretations and Behaviors Influence Our Collegial Relationships" with Dr. Laura Croft and Joe Szot
09/20	Judge, U of I Interdisciplinary Graduate Program in Genetics Student Retreat Poster Session
11/21	Volunteer, Animal Care Facility, PDBD Barrier. Restock PPE for those using the animal facility (help needed due to short staffing in the animal facilities post-pandemic)
2022	Judge, Pediatric Research Day
2023	Judge, Pediatric Research Day
2022- pres	Member, Faculty Senate

### **University Committees**

2002-2003	Steering Committee Formation of The University of Iowa's Federation of Clinical Immunologic Society (FOCIS) designated Immune Mediated Inflammatory Disorder (IMID) Center; Deputy Director Advocacy & Patient Education
05/03	UI IMID Center Representative at the Federation of Clinical Immunologic Society (FOCIS) Center Meeting, Paris, France
07/03	UI IMID Center Representative (with Zuhair Ballas) at the Federation of Clinical Immunologic Society (FOCIS) Center Meeting, Montreal, Canada

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09/06-present	Medical Student Research Council, Univ of Iowa Carver College of Medicine
2007	Department of Pediatrics Compensation Plan Committee
2010	CCOM Psychiatry DEO Search Committee
05/10	Department of Psychiatry Departmental Review Committee
2010	Department of Pediatrics Compensation Plan Committee
2011	Pediatric Hematology/Oncology Division Director Search Committee
02/12-present	Immunology Post-Doctoral T32 Executive Committee (PI: Harty)
2012	Carver College of Medicine Curriculum Renewal Mechanism of Health and Disease (MOHD) Immunology/Infection Subcommittee
07/12-present	Diagnostic Services Subcommittee: Genetic Testing Working Group, UIHC
2013	Distinguished Alumni Awards Selection Committee
03/13	CCOM panel participant; "Establishing a Timeline, Markers and Goals to achieve Promotion on the Tenure Track"
2013	CCOM Orthopedics DEO Search Committee
04/13 – 05/16	CCOM Executive Committee
05/14 – 05/16	Chair, CCOM Executive Committee (1 year term)
12/13 - present	Pediatric Scientist Training Program Selection Committee
11/13	Pediatric Allergy/Pulmonary Division Director Search Committee
05/14	General Pediatrics Division Director Search Committee

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01/15	Chair, Pediatric Infectious Disease Division Director Search Committee
02/15	CCOM Dermatology Departmental Review Committee
2015 - 2018	CCOM Medical Student Appeals Committee
2015 - 2022	Department of Pediatrics Promotion Advisory Committee
11/17	Burroughs Welcome Fund Physician Scientist Institutional Award Planning Grant – Steering Committee Member (Jeff Murray PI)
2017-2018	Medical Genetics Division Director Search Committee
2019	UI Stead Family Children's Hospital Executive Director Search Committee
2020-pres	Department of Pediatrics Diversity Equity and Inclusion Committee
2021	CCOM Dermatology DEO Search Committee
2021	Search Committee Division Director for Pediatric Intensive Care
2022 - pres	Planning Committee for Pediatric Research Day
2022 – pres	Department of Pediatrics Research Leadership Group
2022 – pres	Medical Laboratories and Medical Research Center Renovation Planning Group (Department of Pediatrics research space)
2022	Committee to Hire a Scientific Editor for the Department of Pediatrics (Harshman and Ferguson)
2022	Department of Pediatrics Cultural Awareness Day (volunteer)
2022-pres	Search Committee Division Director for Pediatric Cardiology
2023	Chair, Search Committee for Division Director for Pediatric Hematology/Oncology
2023 -pres	Search Committee Division Director for Pediatric Pulmonology

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2023 – pres CCOM Mandatory Compliance Training Review Working Group

### **State of Iowa**

11/11- present **Iowa Newborn Screening** Severe Combined Immune Deficiency (SCID) Implementation Workgroup and Medical Consultant

01/20 - present **Iowa Department of Human Services, Iowa Medicaid Enterprise Quality Improvement Organization, Clinical Advisory Committee Member** (5-year position; meets quarterly). The purpose of the CAC is to increase the efficiency, quality, and effectiveness of the Medicaid healthcare system. The CAC is charged with recommending clinically appropriate healthcare utilization management and coverage decision to the Department of Human Services (DHS) for the Iowa Medicaid program.

### **National Committees and Service**

2004-present: **Childhood Arthritis & Rheumatology Research Alliance (CARRA)**

- Juvenile Idiopathic Arthritis Protocol Evaluation Committee (2005-2012)
- Juvenile Arthritis Disease Specific Subcommittee (2004-present)
- Systemic Lupus Erythematosus Disease Specific Subcommittee (2004-2009)
- Scleroderma, Vasculitis and Rare Disease Specific Subcommittee (2009-present)
- Linear Scleroderma Core Workgroup (2010-present)
- CRMO Core Workgroup co-Leader (2012-present)

11/06 Moderator for Concurrent Abstract Session: “Pediatric Rheumatology: Pathogenesis and Genetics”, American College of Rheumatology Annual Scientific Meeting, Washington, DC

02/08-04/13 **Chair**, Data and Safety Monitoring Board “Randomized, Controlled, Double blind, Placebo Phase Study of Rilonacept in the Treatment of Systemic Juvenile Idiopathic Arthritis (RAPPORT)”; NIH funded clinical trial.

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- 2008 Arthritis Foundation, Grant Review Committee, Molecular Biology/Genetics section
- 2008 **Organizing committee** for International Conference on CRMO/SAPHO and Behçet syndrome. NIH/NIAMS, Bethesda, MD, September 3 – 5, 2008. Co-organizers: Raphaela Goldbach-Mansky, Dan Kastner, Karryl Barron, Ahmet Gul.
- 10/08-09/10 **American College of Rheumatology, Pediatric Rheumatology Section Executive Committee**
- Spring 2009: Attended ACR Peds Executive Committee Meeting. Dr. Anne Stevens and Polly Ferguson assigned to plan the ACR Study Group Sessions for the next 3 years.
  - Fall 2009: Attended the ACR Peds Section Executive Committee Meeting. Dr. Anne Stevens (Seattle) and Dr. Polly Ferguson (Iowa) proposal for 2010 ACR study group session on Kawasaki Syndrome approved.
  - March 2010: Attended ACR Pediatric Rheumatology Section Executive Committee Meeting in Chicago, IL. At this meeting the section committee members developed a plan for developing an ACR Committee on Pediatric Rheumatology. This will be reviewed and voted on by the ACR Board of Directors and if approved, the Pediatric Rheumatology Section will dissolve. Nominees for Awards were chosen. Dr. Stevens and Ferguson announced that the study section they proposed on Kawasaki Syndrome was accepted by the ACR and that the speakers had accepted the invitation. The Pediatric Residents Annual Meeting Program, Visiting Professor Program, Pediatric Information Sheets, CoPS coding revisions, Pediatric Referral Guidelines and 2010 ACR Annual Meeting Planning for pediatric events were topics dealt with during this meeting.
  - Summer 2010: Conference calls with pediatric leadership within the ACR (Hirsch, Colbert, Klein-Gitelman) in planning for Pediatric Rheumatology to become a special committee within the ACR (instead of a special section).
  - August 2010: Ferguson presented proposal to change pediatric rheumatology from a section to a special committee to the ACR Board of Directors. Resultant action: Pediatric Section dissolved; Pediatric Committee approved.
- 10/08-09/10: **American College of Rheumatology Committee on Research (CoR)**
- The Committee on Research is responsible for encouraging clinical and health services research on the organization of medical and health care as they may affect patients with rheumatic diseases; maintaining an updated rheumatology research agenda; appointing a liaison to the Committee on Government Affairs and working

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with that committee on advocacy, and; working to coordinate the research efforts of the ACR and the Arthritis Foundation.

- 12/08: Attended the American College of Rheumatology Annual Meeting Planning Committee Meeting (invited guest) held in Dallas, Texas on December 12, 13, 14, 2008.
- Attended as the representative of the ACR's Committee on Research to advocate for inclusion of basic science sessions in the ACR's annual meeting and to present the COR's proposals for the pre-conference research meetings.
- Presented proposals for the 2009 ACR Basic Research Conference, the 2009 ACR Clinical Research Conference and for a Basic Science Symposium for the ACR Annual Meeting.
- Created and proposed basic science symposium with Dr. David Lee (Brigham and Women's) for the ACR Annual Scientific Meeting entitled "The Autoinflammatory to Autoimmune Disease Spectrum; How Genetic Studies Inform Us about Disease Pathogenesis" which was accepted by the National Planning Committee. Speakers included Dr. Dennis McGonagle (Leeds), Dr. John Reveille (Houston), Dr. Robert Plenge (Boston). Moderators: Bob Colbert (NIH) and Polly Ferguson (Iowa).
- 01/09: ACR Leadership Conference and CoR Committee Meeting, Atlanta, GA. Jan 23, 24
- 10/09: ACR Committee on Research Meeting, Philadelphia, PA, Oct 19
- 10/09: ACR Annual Meeting Planning Committee Meeting as CoR liaison, Philadelphia, PA, Oct 20
- 11/09: Proposed basic science symposia for the 2010 national meeting.
- 12/09: ACR CoR Meeting, Atlanta, GA. December 4, 2009
- 12/09: ACR Leadership Development Meeting, Atlanta, GA. December 5, 2009
- 01/10: ACR Annual Meeting Planning Committee Meeting, Atlanta, GA
  - Attended as the representative of the ACR's Committee on Research to advocate for inclusion of basic science sessions in the ACR's annual meeting and to present the COR's proposals for the pre-conference research meetings.
  - Presented proposals for the 2010 ACR Basic Research Conference, the 2010 ACR Clinical Research Conference and for a Basic Science Symposium for the ACR Annual Meeting.
  - Created and proposed basic science symposium with Dr. Robert Plenge (Brigham and Women's), Ted Mikuls (University of Nebraska) and Bob Colbert (NIH) for the ACR Annual Scientific Meeting entitled "The Biology of Citrullination" which was accepted by the National Planning Committee.
- 05/10: Reviewed 42 abstracts for ACR Rheumatology Research Workshop
- Asked by Chair of the ACR Committee on Research to serve an additional year on the ACR CoR Committee but declined due to commitment to serve on the new Special Committee on Pediatric Rheumatology

06/09 **American College of Rheumatology Abstract Reviewer** for the 2010 ACR Annual Scientific Meeting

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- Reviewed 32 abstracts in the Pediatric Rheumatology Pathogenesis and Genetics category

01/11 **American College of Rheumatology Abstract Reviewer** for the 2011 ACR Pediatric Rheumatology Symposium, Miami

- Reviewed abstracts in the Pediatric Rheumatology Pathogenesis and Genetics category

09/10-07/12 **American College of Rheumatology, Special Committee on Pediatric Rheumatology, Member**

- The charge of the Special Committee on Pediatric Rheumatology is to advance knowledge, foster communication, promote professional training, care for patients, and research in pediatric rheumatology; To promote the education and understanding of childhood rheumatologic diseases among physicians, allied health personnel, parents, patients, and the general public; To promote research; To promote improved methods of care for children with rheumatic disease; To optimize the number of Pediatric Rheumatologists and support existing ones.
- Proposed and moderated Pediatric Rheumatology Study Groups with Dr. Anne Stevens  
2010 ACR Pediatric Rheumatology Study Group: "Kawasaki Disease in the 21<sup>st</sup> Century – Genes, Pathogenesis, and Biologics. Speakers: Dr. Rae Yeung and Dr. Rob Sundel.  
2011 ACR Pediatric Rheumatology Study Group: "Pediatric Uveitis". Speakers Dr. Howard Tessler, Dr. Eglia Rabinovich, Dr. Ivan Foeldvari
- Sub-committee chair aimed at improving options for Maintenance of Certification (MOC) activities for Pediatric Rheumatology

04/12- 10/13 **American College of Rheumatology Juvenile Idiopathic Arthritis Treatment Guidelines Taskforce (update of current guidelines), Taskforce Member**

- Taskforce reviewed the current literature and by consensus 2013 update of the American College of Rheumatology recommendations for the use of disease-modifying anti-rheumatic drugs (DMARDs) and biologic DMARDs in the treatment of systemic juvenile idiopathic arthritis.

06/12 -05/13 **2012 Best Pharmaceuticals for Children Act (BPCA) Rheumatology Therapeutic Area Working Group Member**

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- Charge is to provide recommendations to the *Eunice Kennedy Shriver* NICHD and the U.S. Food and Drug Administration (FDA) on current therapeutic needs in pediatric rheumatology patients
- Role: Head of Juvenile Idiopathic Arthritis Working Group

### **08/12- 11/15 Chair, American College of Rheumatology, Special Committee on Pediatric Rheumatology**

- The charge of the Special Committee on Pediatric Rheumatology is to advance knowledge, foster communication, promote professional training, care for patients, and research in pediatric rheumatology; To promote the education and understanding of childhood rheumatologic diseases among physicians, allied health personnel, parents, patients, and the general public; To promote research; To promote improved methods of care for children with rheumatic disease; To optimize the number of Pediatric Rheumatologists and support existing ones.
- Attend all ACR Board of Directors Meetings (~4 per year) as well as all Rheumatology Research Foundation Board of Directors Meetings (~ 3 per year)
- Development of a Pediatric Rheumatology Top 5 (leaders: Ardoin, Rouster-Stevens, Ferguson) – November 2012 – Feb 2014.
- Pediatric Resident's Program for the American College of Rheumatology Annual Scientific Meeting planning and implementation. Goal is to attract pediatric residents into the field of pediatric rheumatology (leaders: Moorthy, Dragon, Huttenlocher).
- AMIGO Steering Committee – as Chair of the ACR Special Committee on Pediatric Rheumatology, I presented the pilot data for success of this unique mentoring program for pediatric rheumatology fellows and junior faculty to ACR Board of Directors with decision to make this pilot project a standing project (funded annually).
- Pediatric Rheumatology Town Hall Meeting – held at the ACR annual meeting. Design content and moderate sessions with Dr. Anna Huttenlocher; established "Pediatric Rheumatology Year in Review" session.

**2013 Co-Chair American College of Rheumatology Abstract Review Committee:** Pediatric Rheumatology- Pathogenesis and Genetics Section for the 2013 ACR Annual Scientific Meeting [with Alexei Grom, MD]

**2014 American College of Rheumatology Abstract Reviewer for the 2014 ACR Pediatric Rheumatology Symposium (PRYSM), Orlando**

**2014 Co-Chair American College of Rheumatology Abstract Review**

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**Committee:** Pediatric Rheumatology - Pathogenesis and Genetics Section for the 2014 ACR Annual Scientific Meeting [with Nora Singer, MD in 2014]

2015 **Co-Chair American College of Rheumatology Abstract Review**

**Committee:** Pediatric Rheumatology - Pathogenesis and Genetics Section for the 2015 ACR Annual Scientific Meeting

07/15 **NIH/NICHD RFA HD-16-018 K12** applications, reviewer

07/15 **American College of Rheumatology Government Affairs**

**Committee (Research Sub-Committee)** - The goal is to develop strategies to increase NIH funding through Congressional measures

10/15 Judge poster sessions at the **8th International Congress of Familial Mediterranean Fever and Systemic Autoinflammatory Diseases (ISSAID)**, "Autoinflammatory Bone Disease", Dresden, Germany

11/15 Poster tour guide for the Pediatric Resident's Program for the **American College of Rheumatology Annual Scientific Meeting**, San Francisco, CA

11/15 – 10/16: **American College of Rheumatology Abstract Oversight Committee.**

03/16 National Institutes of Arthritis and Musculoskeletal and Skin Diseases (**NIAMS/NIH**), **Rheumatic Disease Core Center (P30) Review Panel**

07/16 Arthritis United Kingdom, **CRMO Bayesian Prior Elicitation Meeting, London, UK**, role = consultant paediatric rheumatologist/CRMO expert

09/16 – 12/17 **American Board of Pediatrics**, subspecialty content development

11/16 – 10/18: **American College of Rheumatology Committee on Nominations and Appointments** (for 2 year term) - The charge is to vet and nominate candidates for leadership positions in the ACR. Also makes recommendations to the ACR BOD regarding applications for membership, the ACR Awards of Distinction, and other ACR awards.

03/17 **NIH/NIAMS P50 Centers of Research Translation**, *ad hoc*

04/17 **NIH/NIAMS Board of Scientific Counselors**, *ad hoc* consultant

06/17 **NIH/NIAID Board of Scientific Counselors**, *ad hoc* consultant

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- 11/17 **American College of Rheumatology JIA Treatment Guideline Development Group** (voting member), San Diego, CA
- 01/18 – pres: **American Board of Pediatrics**, Pediatric Rheumatology Subboard Member (5 yr term: 01/01/18 – 12/31/23). **Subboard Chair** 01/21 – 12/22
- 03/18 – 02/20: **Arthritis Foundation Medical & Scientific Advisory Committee**
- 2017 – 2022: **NIH/NIAID Board of Scientific Counselors**, standing member, 5 year term. Review intramural research program at NIH/NIAID 2.5 days/meeting twice per year. **Named BSC Co-Chair** December 2019-present.
- 03/19 – pres: **Association of Rheumatology Professionals (affiliate of the ACR)**, Membership and Nominations Committee
- 05/19 – **NIH/NIAMS** Core Centers for Clinical Research (CCCR, P30) grant review
- 08/19 **American College of Rheumatology PRSYM 2020 Abstract Reviewer** Genetics and Pathogenesis category
- 11/19 Poster tour guide for the Pediatric Resident's Program for the **American College of Rheumatology Annual Scientific Meeting**, Atlanta, GA
- 12/19 **NIH/NIAMS** Rare Disease SBIR Grant Review Meeting
- 04/20 **Novartis Pharma** – Consultant for consideration of clinical trial
- 04/20 **NIH/NIAMS Board of Scientific Counselors**, *ad hoc* consultant
- 05/20 **NIH Board of Scientific Counselors Annual Chairs Meeting**
- 11/20 **NIH/NICHD** Pediatric K12 Program Review Meeting
- 02/21 **NIH/NIAMS** Core Centers for Clinical Research (CCCR, P30)
- 04/21 **NIH/NIAMS Board of Scientific Counselors**, *ad hoc*
- 05/21 **NIH Board of Scientific Counselors Annual Chairs Meeting**
- 03/22 **American College of Rheumatology Vaccine Guideline Development** (voting member, virtual meeting)
- 05/22 **American Board of Pediatrics Subboard Chairs Committee Meeting**

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- 05/22 **NIH Board of Scientific Counselors Annual Chairs Meeting** (representing NIAID BSC)
- 11/22 **American College of Rheumatology 2022 Annual Meeting: Abstract Review Committee** (Innate Immunity Category) and **Moderator** ACR session on Classification Criteria for CRMO/CNO Nov 2022.
- 03/23 **NIH NIAMS Rheumatic Disease Research Resource-based Centers (P30)** Grant Review Committee
- 06/23 **American College of Rheumatology 2023 Annual Meeting: Abstract Review Committee** (Innate Immunity Category)
- 06/23 **NIH/NIAMS Board of Scientific Counselors, standing member (3 yr term)**
- 08/23 **NIH/NIEHS Board of Scientific Counselors, ad hoc**
- 2023 **Planning committee NIH/NICHD funded CHRCDA Annual Scholars Meeting (co-host with Drs. Gabriel Haddad, Victor Nizet and Alex Bassuk), La Jolla, CA**