• A 2 year ACGME-accredited fellowship training program in adult Rheumatology in the clinical track, leading to fulfillment of ABIM requirements for Board Eligibility.

• An optional third year of additional training, or training in the UCSD Physician Scientist Training Program pathway, is offered, and focuses on basic or clinical-translational investigation in the research track, designed for entry into an academic research career and supported by NIH T32.

• Fellowship applicants must have successfully completed internal medicine residency training obligations, prior to commencing the fellowship program.

How to contact us

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Welcoming applications through the Electronic Residency Application Service (ERAS®), a program of the Association of American Medical College.

https://www.aamc.org/services/eras/

La Jolla Cove taken by R. Terkeltaub
The UCSD Rheumatology Fellowship Training Program is based in the unique civic, scientific, and biotechnology environment of San Diego, and features both highly diverse clinical experiences and faculty, in addition to opportunities for concentrated laboratory and translational and clinical research. Our UCSD and affiliated faculty and institutions represent the highest echelon of scientific achievement in academic medicine.

Clinical experiences include:
- Longitudinal outpatient experience and inpatient consult training at the UCSD Medical Center, Thornton/Sulpizio Hospital, VA Medical Center, Rady Children’s Hospital
- Elective time includes imaging, medical orthopedics, pediatric rheumatology, tele-rheumatology
- Formal training curriculum in musculoskeletal ultrasound, including ultrasound clinic

Regular teaching exercises include:
- Clinical Teaching Conferences
- Rheumatology-Immunology Seminar Series
- Musculoskeletal Radiology and Advanced Imaging Seminars
- Rheumatology Journal Club
- Medical Orthopedics/Sports Medicine
- Translational Pathobiology Conferences
- Clinical Research and Biomarkers Seminars

For more information please visit us on our website:

http://raidivision.ucsd.edu

Training in clinical, translational and basic research include:

Applicants interested in pursuing a career in academic medicine, and M.D, Ph.D. applicants are encouraged to apply. Our research strength is uniquely broad in innate and adaptive immunity, inflammation, signal transduction, synovial and cartilage biology, vascular biology, stem cell biology, metabolic arthropathies, and multiple areas of translational research. These include immunopharmacology, computational translational biology (informatics, genomics, proteomics), epidemiology, biomarkers, clinical trials, outcomes, health services research and development, and global health (see below, and Division website).

The basic research program includes joint training opportunities with affiliated faculty at La Jolla Institute of Allergy and Immunology, Sanford-Burnham Research Institute, and other local institutions and Divisions and Departments at UCSD.

Training resources for clinical, translational and health services research, and epidemiology includes the NIH-funded CTSA program, and CREST program (crest.ucsd.edu), with opportunities for Masters of Advanced Studies or a Masters of Public Health degree in conjunction with San Diego State University School of Public Health.
Detailed Description of Major Features of the 3 Available Training Tracks:

1. Clinical Rheumatology Training Track
   - A 2 year training track for rheumatologists committed to a career in clinical practice (or as an academic clinician scholar) following a standard ACGME 2 year training program for board eligibility in Rheumatology

Rheumatology Clinical Teaching Faculty:
Arnold Ceponis - Program Director
Maripat Corr - Associate Program Director

Other Professors: Gary Firestein, Arthur Kavanaugh, Ken Kalunian, Mark Ginsberg, Harry Bluestein, Gregg Middleton, Robert Terkeltaub

Assistant and Associate Professors: Susan Lee, Susan Sweeney, Nunzio Bottini, Stephanie Stanford, Abha Singh, Monica Guma, Brian Pedersen

Community Faculty - including from the Scripps, Kaiser, and Sharp Health Care systems: Bonnie Hepburn, Adrian Jaffer, Alan Cohen, John Scavulli, Katherine Nguyen, Jeannie Chao, Brian Anderson, Zuhre Tutuncu

Featured Clinical Activities:
*Clinics:
   - UCSD General Rheumatology Continuity Clinic
   - VA Medical Center General Rheumatology Continuity Clinic
   - UCSD SLE/Systemic Immune-Mediated Disease Focused Continuity Clinic
   - UCSD Ultrasound Clinic
   - Pediatric Rheumatology Clinic (Rady Children’s Hospital)
   - UCSD Ortho/Sports Medicine Elective Clinic

*Rheumatology Inpatient Consult Service (UCSD and VA)

*Teaching Conferences:
Rheumatology Grand Rounds
Rheumatology Case Conferences
Rheumatology San Diego City-Wide Teaching Conference (with Scripps program and the San Diego Rheumatology Community)
Combined Rheumatology and Allergy Clinical Grand Rounds
Rheumatology Formal Ultrasound Curriculum Conferences
Core Curriculum Conference
Rheumatology-Radiology Teaching Rounds
Rheumatology-Radiology Teaching Rounds
Inter-Disciplinary Conferences (With UCSD Orthopedics, Ophthalmology, Pathology, Renal, and Dermatology Faculty)
Rheumatology Journal Club
Rheumatology Research Elective Time (1 Year Total)

- Clinical and translational research testing novel therapies at the Center for Innovative Therapy including biologics and other forms of immune modulation, or at the VA and other sites offering training in HSR&D, outcomes research, and tele-medicine.

2. Clinical-Translational Rheumatology Research Track

- Board eligibility after 2 years of training employing most of the same array of clinical training activities in the clinical track
- Designed as a 3 Year T32-supported Training Track
- NIH-funded CREST K30 Courses in Clinical Research Methodology: As a component of the CREST program, trainees have the opportunity to obtain either a Masters of Advanced Studies (MAS) or a Masters of Public Health (MPH) degree in conjunction with San Diego State University School of Public Health.
- Full Integration with UCSD NIH CTSA program
- Specialized Rheumatology Clinical Research Journal Club for This Track
- Clinical and translational research testing novel therapies at the
- Center for Innovative Therapy including biologics and other forms of immune modulation, or at other sites offering training in HSR&D and outcomes research.

Training opportunities include work with these mentors:
Clinical Research, Epidemiology, Outcomes, HSR&D:

Arthur Kavanaugh Director Center for Innovative Therapy; Rheumatic disease translational research in biologics, outcomes, diagnostic tools, clinical trials methodology

Kenneth Kalunian SLE and Osteoarthritis clinical research, including biologics development, and inception cohort studies

Susan Lee HSR&D, tele-rheumatology, outcomes

Robert Terkeltaub Clinical Research in Gout

Bruce Zuraw and Marc Riedl Clinical-Translational Research in Angioedema and Drug Hypersensitivity. Based in the US HEAE Association Angioedema Center

Biomarkers:

Gary Firestein CTSA PI

David Boyle Director, CTSA Biomarker Core Biomarkers Core and Other Resources of NIH CTSA-funded UCSD Clinical Translational Research Institute (CTRI)

Novel Rheumatologic Applications of Ultrasound and Advanced Imaging:

Arnold Ceponis e.g. Ultrasound for Hemophilic Arthropathy

Arthur Kavanaugh e.g. Ultrasound for Enthesopathy, Sjogren’s Syndrome

Kenneth Kalunian Ultrasound in OA

Donald Resnick Radiology: Advanced Imaging Approaches)

Christine Chung Radiology: Functional MRI
Computational translational biology, including informatics, genomics, proteomics:

Lucilla Ohno-Machado  Bioinformatics
Kelly Frazer                  Genomics, Deep Sequencing)
Richard Scheuermann at J Craig Venter Institute - Informatics

3. Basic-Translational Rheumatology Research Track

- Board eligibility after 2 years of training employing most of the same array of clinical training activities in the clinical track
- Designed as 3 Year T32-supported training track
- Additionally integrated with the UCSD Physician Scientist Training Pathway (PSTP, directed by Mark Ginsberg)
- Specialized Rheumatology Research Journal Club
- Specialized Research Training Courses in Ethics and Grantsmanship for This Track

Training opportunities include work with these mentors:

**Innate Immunity, Inflammation, Connective Tissue Biology:**
- **Gary Firestein**  RA Synovial Biology, Kinase Signaling, Epigenetics
- **Michael Karin**   Inflammation Transcriptional Signaling
- **Mark Ginsberg**  Inflammation Biology and Signaling, Leukocyte Adhesion and Trafficking, Angiogenesis and Vascular Biology in Rheumatic Disease
- **Dennis Carson** Member: Institute of Medicine, National Academy of Sciences; TLR Innate Immunity in Translational Immune Modulation, Purine Metabolism in Immunology, Nanotechnology

- **Hal Hoffman**     Inflammasome Biology and Pediatric Autoinflammatory Diseases
- **Robert Terkeltaub** Interfaces between Inflammation and Connective Tissue Biology, Crystal Arthropathies
- **Eyal Raz**        Mucosal Immunity, Innate Immunity, Translational Immune Tolerization for SLE and RA
- **Maripat Corr**    Innate Immunity in Arthritis, Wnt Signaling in Rheumatic Disease
- **Paul Insel**      Mechanisms of Fibrosis
- **Monica Guma**    Inflammation Signal Transduction, Stem Cell Biology, Angiogenesis
- **Ru Liu-Bryan**    Inflammation Modulation and Metabolic Regulation of Inflammation in Cartilage Disease

**Adaptive Immunity:**
- **Dennis Carson**  B cell biology, and life and death mechanisms, Immune tolerance, immunization and adjuvanticity
- **Nunzio Bottini**  T cell signaling, T cell Phosphatases, Nanotechnology
- **Maripat Corr**  Adaptive Immunity in RA, SLE, and Spondyloarthropathy
- **Mark Ginsberg**  B and T cell trafficking and activation
Mentors based nearby in the La Jolla research community, including:

- **Mitch Kronenberg**  Director, LIAI - Antigen Presentation, NK and iNKT cells
- **Mick Croft**  LIAI - T cell biology, Translational Immune Tolerance
- **Klaus Ley**  LIAI - T cell Immunity in Atherosclerosis
- **Carl Ware**  Sanford-Burnham - TNF superfamily, Autoimmunity, Viral Immune Evasion in Rheumatic Diseases

**Allergic inflammation:**

- **David Broide**  Lung inflammation and tissue remodeling, Mast Cells
- **Bruce Zuraw**  Kinins, Angioedema
- **Seema Aceves**  Eosinophilic Inflammation
- **Taylor Doherty**  TNF superfamily in lung inflammation

**Basic Mechanisms and Translation in Pediatric and Autoinflammatory Rheumatic Diseases:**

- **Hal Hoffman**  Inflammasome Biology and Pediatric Autoinflammatory Diseases
- **Lori Broderick**  Autoinflammatory Diseases, based in the Hal Hoffman lab group

**Other:**

- **Stem Cell Biology in Rheumatic Diseases:**
  Training and Collaboration Opportunities at the UCSD/Sanford Consortium California Institute for Regenerative Medicine

- **Molecular Medicinal Chemistry in Immunology:**
  Training and Collaboration Opportunities at the Scripps Research Institute, including in the Scripps T32 program in Immunology, and the Scripps-UCSD Program Project Grant on Aging in Osteoarthritis