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.

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UCSD Rheumatology Fellowship Program Director, UCSD Rheumatology T32 Principal Investigator,
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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/
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, genetics. Multiple areas of translational research 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 at La Jolla Institute of Allergy and Immunology, which is on the UCS campus and a formal UCSD affiliate, as well as with affiliated faculty at Sanford-Burnham Prebys Research Discovery Institute, and other local institutions (eg, Salk, Scripps, Venter Institute).

Training resources for clinical, translational and health services research, and epidemiology, includes UCSD Departments of Epidemiology, Preventative Medicine, Global Health, Bioinformatics, and Genetics, and NIH-funded CTSA program, and CREST program (crest.ucsd.edu), with opportunities for Masters of Clinical Science, or MPH degree with San Diego State University School of Public Health.
Detailed Description of Major Features of the 3 Available Training Tracks:

   - 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 ABIM Board eligibility in Rheumatology

Rheumatology Clinical Teaching Faculty:
Robert Terkeltaub (Program Director)
Maripat Corr (Associate Program Director)

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

Assistant and Associate Professors: Susan Lee, Susan Sweeney, Nunzio Bottini, Arnoldas Ceponis, Beatrix Bartok, Monica Guma, Abha Singh, 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
   - Metabolic Bone Disease 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-Immunology Research Conference
Inter-Disciplinary Conferences (With UCSD Orthopedics, Opthalmology, Pathology, Renal, and Dermatology Faculty)
Rheumatology Journal Club
Rheumatology Research Training (Minimum of 1 Year of Concurrent Training)

Clinical and translational research sites:
- UCSD Center for Innovative Therapy: http://health.ucsd.edu/specialties/cit/Pages/default.aspx, including translationally focused studies of biologics and other forms of immune modulation, biomarkers, and cohort studies, outcomes research
- UCSD Clinical and Translational Research Institute (CTRI): Biomarkers, bioinformatics
- VA Medical Center: HSR&D, telemedicine, gout and osteoarthritis clinical trials and cohort studies

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 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:

Training Sites Include:
- UCSD Center for Innovative Therapy
- UCSD CTRI
- UCSD Division of Epidemiology
- UCSD Department of Pediatrics
- VA Medical Center

Research training mentors include:
Clinical Trials, Outcomes, HSR&D:
Arthur Kavanaugh (Director Center for Innovative Therapy; Rheumatic disease translational research in biologics, outcomes, diagnostic tools, clinical trials methodology)
Ken Kalunian (SLE and Osteoarthritis clinical research, including biologics development, and cohort studies)
Susan Lee (HSR&D, tele-rheumatology, outcomes)
Robert Terkeltaub (Clinical trials and cohort studies in gout and other crystal arthropathies)
https://www.pediatrics.ucsd.edu/research/Research_Centers/Kawasaki-Disease/Pages/default.aspx Jane Burns (Kawasaki Disease)

Epidemiology, Women’s Health, and Global Health Research in Rheumatic Diseases:
http://epidemiology.ucsd.edu/andrea-lacroix-phd.html Andrea Lacroix (Osteoporosis, Aging, Women’s Health)
http://epidemiology.ucsd.edu/christina-chambers-phd.html Christina Chambers (Pregnancy, Fertility, Lactation in Autoimmune Diseases)
Deborah Kado (Sarcopenia, Osteoporosis)
Stephanie Strathdee (Global Health, Health Policy, UCSD)
Biomarkers:
Gary Firestein (CTSA PI, CTRI Director, UCSD Dean Translation Medicine)
David Boyle (Director, CTRI Biomarker Core)
Biomarkers Core and Other Resources of UCSD CTRI

Novel Rheumatologic Applications of Ultrasound and Advanced Imaging:
Arnoldas Ceponis (eg, Ultrasound for Hemophilic Arthropathy)
Arthur Kavanaugh (eg, Ultrasound for Enthesopathy, Sjogren’s Syndrome)
Ken Kalunian (Ultrasound in OA)
Donald Resnick (Radiology: Advanced Imaging Approaches)
Christine Chung (Radiology: Functional MRI)

Computational translational biology, including informatics, genomics, proteomics:
Trey Ideker (Systems Biology, Genetics)
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)
Jack E Dixon (Member: National Academy of Sciences; Fam20 Secreted Protein Kinases in
Arthritis, Mitochondrial Biology in Connective Tissue Disease)
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)
Alex Gingras (Structural biology of Complement and of Leukocyte Activation)
Bob Sah (Biomechanics in Cartilage Biology)

Adaptive Immunity:
Dennis Carson (Member: Institute of Medicine, National Academy of Sciences; Purine Metabolism in Immunology)
Nunzio Bottini (T cell signaling, T cell Phosphatases)
Maripat Corr (Adaptive Immunity in RA, SLE, and Spondyloarthropathy)
Mark Ginsberg (B and T cell trafficking and activation)
Susan Sweeney (Innate antiviral IRF defenses in autoimmune disease)
Joseph Cantor (B Cell Signaling)
Anthony Horner (Immune Tolerance)
   -And mentors based nearby in the La Jolla research hub, 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, Viral Immunology in Rheumatic Diseases)

Allergic inflammation:
David Broide (Lung inflammation and tissue remodeling, Mast Cells)
Bruce Zuraw (Kinin, 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)
Jane Burns (Kawasaki’s Disease Pathophysiology and Immune Modulation Based Therapy)

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