The ALLERGY AND IMMUNOLOGY fellowship offered by the Division of Rheumatology, Allergy and Immunology at the University of California, San Diego School of Medicine is a multifaceted program designed to train outstanding clinicians and academically oriented clinical and basic investigators. It offers extensive training in adult and pediatric allergy, with exposure to the allied disciplines of rheumatology, otolaryngology, pulmonary medicine and dermatology. Regular inpatient and outpatient experiences occur at the UCSD Medical Centers in Hillcrest and La Jolla, at the La Jolla Veterans Affairs Medical Center and at the Children's Hospital Medical Center. Ambulatory rotations are available at the San Diego Naval Medical Center and at Kaiser Permanente. Longitudinal outpatient experience in the allergy and immunology clinics is available at these locations.

Training in the conduct of clinical research and clinical trials is available in the UCSD Clinical Trials Center. Intensive training is also provided in the conduct of basic research into the function of mast cells, the properties of eosinophils, the role of cytokines in allergic inflammation, in animal models of acute and chronic allergic inflammation including asthma and upper airway disease, and in the use of genetic manipulation to assess allergic inflammation. Involvement in human studies of novel therapeutics is available in our Center for Innovative Therapy. Regular teaching exercises include joint programs with Scripps Clinic, Rheumatology, Allergy and Immunology journal club, regular research and clinical teaching conferences, and participation in the UCSD Pulmonary Lecture Series and PFT laboratories. The Program is a minimum of two years in duration; a third year is advisable for those desiring an enhanced research experience for those planning an academic career. The partition of time between clinic and laboratory are consistent with the special requirements for training in Allergy and Immunology as set forth by the American Board of Allergy and Immunology. The Program is one of three participants in a multi-institutional NIH sponsored training grant in Allergy and Immunology. All applicants must have successfully completed training in Internal Medicine or Pediatrics (or combined Med-Peds) at the time of entering the program. An exception to this policy is available for those candidates participating in the ABIM or ABPeds research pathways. A combined three-year program in Allergy and Immunology and Rheumatology is also available.

Completed applications should contain a CV, bibliography, and copies of any publications, UCSD biography form and a brief outline of any special training interests. Please include names of three referees who will provide letters of recommendation. All applicants will be considered, and those interested in an academic career are particularly encouraged to apply.
ALLERGY & IMMUNOLOGY
FACULTY

BRUCE ZURAW, MD
Professor of Medicine-in-Residence, Section Head, Fellowship Program Director

Research focus on allergic inflammation in humans with particular attention to hereditary angioedema, and on the mechanism of action of glucocorticoids.

DAVID BROIDE, MD
Professor of Medicine

Research program focused on the assessment of acute and chronic models of allergic inflammation and airway remodeling utilizing genetically manipulated mice, assessment of eosinophil function with particular attention to eosinophil attachment to blood vessels and egress into tissue, and the role of immunostimulatory sequences of DNA (ISS) as therapeutic agents in human allergic disease.

HAL HOFFMAN, MD
Assistant Adjunct Professor of Pediatrics and Medicine

Research focus on the genetics of inflammatory disorders, positional cloning of target genes, and the function of such genes in the expression of inflammation.

ANTHONY HORNER, MD
Assistant Adjunct Professor of Medicine

Our laboratory's primary research focus is understanding how infections and less invasive exposures to microbes impact on the patho-genesis of allergic diseases. In particular, we are actively investigating the immunological activities of microbial products that activate cells through toll like receptors and the immuno-modulatory effects of toll like receptor ligands in allergic disease models.

ARTHUR KAVANAUGH, MD
Professor of Clinical Medicine Director, Center for Innovative Therapy

Research program on innovative approaches to various immunologic diseases, particularly novel biologic therapies.

EYAL RAZ, MD
Professor of Medicine

Research program focuses on the fundamental interactions of innate and adaptive immunity. We study the biological, immunological and the molecular events (e.g., signaling) initiated by microbial compounds (e.g., TLR ligands), their interactions with antigen presenting cells and their potential role in the inhibition/acceleration of allergic and other inflammatory diseases. Some of our initial strategies, which were performed in mice, are now being evaluated in clinical trials.

KIM E. BARRETT, PhD
Professor of Medicine and Vice-Chair for Research, Department of Medicine

Research focus on host defense with particular reference to the GI tract. Molecular mechanisms of ion transport and the effect of mediators of inflammation are a special interest.

STEPHEN WASSERMAN, MD
Professor of Medicine, Past Program Director Past Chairman ABAI, Past President AAAAI, Immediate Past Chair Department of Medicine, UCSD

Research interests include mast cell function, mediators of immediate hypersensitivity, physical allergy, the role of nuclear hormone receptors in allergy.

Affiliated UCSD faculty include:
Gary Firestein MD
Professor of Medicine and Chief, Division of Rheumatology, Allergy and Immunology and Dean Translational Medicine
Dennis Carson MD
Professor of Medicine and Director, Moores UCSD Cancer Center
Nathan Zvaifler MD
Professor of Medicine, Emeritus
Harry Bluestein MD
Professor of Medicine, Emeritus
Robert Terkeltaub MD
Professor of Medicine in Residence and Director, Rheumatic Disease Training Program
Gregg Silverman MD
Professor of Medicine, Director Rheumatic Diseases Core Center

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