



## Scientific Advisory Board

### Scientific Advisory Board

Scientific Advisory Board Members serve as independent advisors and not as employees of their affiliated organization. Affiliations listed were at time of service.

#### 2007-PRESENT S.A.B.



#### **MARK M. DAVIS, Ph.D., CHAIRMAN**

**Professor, Department of Microbiology and Immunology  
Stanford University School of Medicine  
Investigator, Howard Hughes Medical Institute**

Dr. Davis is Director of the Institute for Immunity, Transplantation and Infection at Stanford University School of Medicine and a Howard Hughes Medical Institute Investigator. He is also a professor in Stanford's Department of Microbiology and Immunology and is well known for his identification in the 1980s of the elusive T-Cell receptor genes, which allow T lymphocytes to fight disease-causing microbes.

Dr. Davis received his B.A. in molecular biology from Johns Hopkins University with Departmental Honors and his Ph.D. in molecular biology from the California Institute of Technology, where he was also the recipient of the Milton and Frances Clauser Doctoral prize. He spent three years as a postdoctoral and staff fellow at the National Institutes of Health before coming to Stanford in 1983. He has been a Howard Hughes Medical Institute investigator since 1987 and was associate Chair and Chairman of the Department of Microbiology and Immunology from 1999-2004, when he was named Director of the Institute for Immunity, Transplantation and Infection. From 2001 to 2006, he was the Burt and Marion Avery Chair in Immunology.

Dr. Davis has received numerous honors and awards, including the Behring-Heidelberger Prize from the American Association of Immunologists, the Alfred P. Sloan Prize from the General Motors Cancer Research Foundation, and the King Faisal International Prize in Medicine. He was a PEW Scholar for four years and is a member of the National Academy of Sciences, The American Academy of Arts and Sciences, and The Institute of Medicine. He has served as a member of the Scientific Advisory Board for the Damon Runyon-Walter Wincell Cancer Foundation and as a member of the Allergy and Immunology Study Section at the National Institutes of Health, and has published more than 250 articles on his research.



**DANIEL LITTMAN, M.D., Ph.D.**  
**Professor, Department of Pathology and Microbiology**  
**NYU School of Medicine, Howard Hughes Medical**  
**Institute**

Dr. Littman is a Howard Hughes Medical Institute Investigator and Coordinator of the Molecular Pathogenesis program at the Skirball Institute for Biomolecular Medicine at New York University School of Medicine. He was formerly Professor of Microbiology and Immunology at the University of California, San Francisco. He holds M.D. and Ph.D. degrees from Washington University in St. Louis. His research interests are in the areas of T lymphocyte development, lymphoid organogenesis, and HIV pathogenesis. He has applied mouse genetic approaches towards gaining insights into each of these areas. His contributions have led to new therapeutic approaches for AIDS and autoimmune diseases. Dr. Littman is a Fellow of the American Academy of Arts and Sciences and is a Member of the National Academy of Sciences. He was awarded the 2004 New York City Mayor's Award for Excellence in Science and Technology.



**ELLEN ROTHENBERG, Ph.D.**  
**Professor, Division of Biology California Institute of**  
**Technology**

Ellen Rothenberg is Professor of Biology at the California Institute of Technology (Caltech) where she has been on the faculty since 1982. Her research focuses on the molecular biology of T lymphocyte development from hematopoietic stem cells, at the interface of developmental biology, immunology, gene regulation, and evolution of immunity. Her laboratory has led in genetic regulatory network analysis of the stem-cell to T-cell transition, and currently applies in vitro differentiation systems, mouse genetics, gene discovery, cis-regulatory element mapping, and temporally-specific genetic perturbation approaches to identify the positive and negative regulatory events required for this process. She has authored over 100 scientific articles including several monograph-length reviews of the T-cell development field.

After graduating summa cum laude in Biochemical Sciences from Harvard, she obtained her Ph.D. in the laboratory of David Baltimore at MIT, where she studied retroviral genome replication biochemistry and genetic organization. She moved to the T-cell development field first as a Jane Coffin Childs Memorial Fund Research Fellow at Memorial Sloan-Kettering Cancer Center with Edward A. Boyse, and then as a junior faculty member at the Salk Institute before coming to Caltech.

She has served on grant review panels for the American Cancer Society, the Children's Hospital of Los Angeles, and the Hereditary Disease Foundation as well as ad hoc review panels for NASA,



visiting committees for NCI, NIA, and intramural NIH reviews, and has also served a four-year membership on the IMS Study Section of DRG/NIH. She is a member of the external scientific advisory boards for the Lerner Research Institute of the Cleveland Clinic Research Foundation and the La Jolla Institute of Allergy and Immunology, and is currently serving as an Associate Editor of Immunity and a Section Editor of the Journal of Immunology. The recipient of six teaching awards at Caltech, she has also been an invited lecturer in the Japanese Society for Immunology summer course and in three American Association of Immunology summer courses.



**SAMUEL STROBER, M.D.**  
**Professor of Medicine, Division of Immunology and  
Rheumatology**  
**Stanford University School of Medicine**

Dr. Strober has served as Professor of Medicine at Stanford University School of Medicine, Division of Immunology and Rheumatology, since 1982. He held the position of Chief of that Division from 1978 to 1997, having first arrived at the School of Medicine as a Senior Assistant Resident in 1970. He has been President of the Clinical Immunology Society, and is a founder of two biotechnology companies (Dendreon, Inc. and Innate Immune, Inc.)

Dr. Strober's laboratory research and clinical trials have focused on the immune cell interactions that prevent graft versus host disease and retain graft anti-tumor activity after bone marrow transplantation, as well as cell interactions that prevent rejection of organ transplants in the absence of immunosuppressive drugs. He is also interested in the pathogenesis of systemic lupus erythematosus, a disease in which the immune system causes excessive inflammation leading to the damage of multiple organs. Throughout his career, Dr. Strober has published over 300 peer-reviewed articles in scientific journals, and has served on editorial boards of immunology journals. He received the Leon Reznick Memorial Prize from the Harvard Medical School.

Dr. Strober received his B.A. from Columbia University and his M.D. from Harvard University. He completed fellowships in the Surgical Research Laboratory at the Peter Bent Brigham Hospital in Boston, and in the Sir William Dunn School of Pathology in Oxford University followed by an internship in medicine at Massachusetts General Hospital. Prior to joining Stanford, Dr. Strober completed additional postdoctoral training as a Research Associate in the Laboratory of Cell Biology of the National Cancer Institute, Bethesda.



**SUSAN L. SWAIN, Ph.D.**  
**Professor, Department of Pathology**  
**University of Massachusetts School of Medicine**  
**President Emeritus, Trudeau Institute**

Dr. Swain was appointed to the National Advisory Council on Aging (NACA) in January, 2008, an advisory group to the National Institute on Aging (NIA), part of the department's National Institutes of Health (NIH), on the conduct and support of biomedical, social, and behavioral research on the diseases and conditions associated with aging. Dr. Swain is current President Emeritus and former President and Director of the Trudeau Institute in Saranac Lake, N.Y., an independent immunology research center in New York. The Trudeau Institute's research focuses on the body's immune system and response to infectious disease. The studies endeavor to discover how to strengthen vaccines and ongoing immune response functions to fight pandemic influenza, tuberculosis, cancer, AIDS-related infections and other life-threatening infectious diseases.

Dr. Swain holds a Ph.D. in Immunology from Harvard Medical School and a B.A. in Biology from Oberlin College in Ohio. She was a Postdoctoral Fellow at the University of California, San Diego (UCSD) in the Department of Biology and went on to become a UCSD Associate Professor of Biology and Professor of Biology.

Dr. Swain has served as an associate editor for various scientific publications, including the Journal of Experimental Medicine and the Journal of Immunology and also sat on the editorial boards of Cellular Immunology, Cell and Lymphokines. She was elected president of the American Association of Immunologists (AAI) in 2004 and currently serves on the AAI council. She has also served on numerous advisory boards including the Arthritis Foundation's Cellular Immunology Review Panel and the National Institutes of Health (NIH) AIDS Research Advisory Committee. Dr. Swain received the NIH Merit Award in 1996 and in 2005 and was named a New York State Woman of Distinction in 2002. She has organized several international and national meetings and has published 170 scientific papers.

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#### **ELLEN ROTHENBERG, Ph.D.**

**Professor, Division of Biology**  
**California Institute of Technology**



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**2005 S.A.B.**

**MARK M. DAVIS, Ph.D., CHAIRMAN**

Chair and Professor, Department of Microbiology and Immunology  
Stanford University School of Medicine  
Investigator, Howard Hughes Medical Institute

**KIM BOTTOMLY, Ph.D.**

Professor, Department of Immunobiology  
Yale University School of Medicine

**DANIEL LITTMAN, M.D., Ph.D.**

Professor, Department of Pathology and Microbiology  
NYU School of Medicine, Howard Hughes Medical Institute

**GERALD NEPOM, M.D., Ph.D.**

Director, Benaroya Research Institute

**ELLEN ROTHENBERG, Ph.D.**

Professor, Division of Biology  
California Institute of Technology