CURRICULUM VITAE

Timothy Alan Springer

Education:

1971 B.A. University of California, Berkeley (Biochemistry)

1976 Ph.D. Harvard University (Biochemistry and Molecular Biology)

Postdoctoral Training:

1976-1977 National Institutes of Health Research Fellow, University of Cambridge, England, and MRC

Laboratory of Molecular Biology, Cambridge, England (César Milstein)

Academic Appointments:

1977-1983 Assistant Professor of Pathology, Harvard Medical School

1983-1989 Associate Professor of Pathology, Harvard Medical School

* 1. Chief, Laboratory of Membrane Immunochemistry, Dana Farber Cancer Institute

1988-1993 Vice President, Immune Disease Institute (former Center for Blood Research)

1988- Senior Investigator, Immune Disease Institute (former Center for Blood Research)

1989-2011 Professor of Pathology, Harvard Medical School

1989- Latham Family Professor, Harvard Medical School

2011- Professor of Biological Chemistry and Molecular Pharmacology, Harvard Medical School

2011- Professor of Medicine, Boston Children’s Hospital

2012- Senior Investigator, Program in Cellular and Molecular Medicine, Boston Children’s Hospital

Non-profit Service:

2016- Co-founder and Chair, Institute for Protein Innovation

2019- Executive Chair, Institute for Protein Innovation

Awards and Honors:

1966 National Merit Scholarship

1971 Phi Beta Kappa

1971 Biochemistry Departmental Citation (awarded to most outstanding graduate)

1971 B.A. with Distinction in General Scholarship and Great Distinction in the Major

1981 American Cancer Society Junior Faculty Research Award

1984-1989 American Cancer Society Faculty Research Award

1988&2004 MERIT Grant Award, National Institutes of Health

1992 Distinguished Lectureship, Vanderbilt School of Medicine

1993 American Heart Association Basic Research Prize

1994 Royal Society of Medicine Medal, Visiting Professor, United Kingdom

1995 William B. Coley Medal for Distinguished Research in Fundamental Immunology

Cancer Research Institute

1995 Marie T. Bonazinga Award for Excellence in Leukocyte Biology Research

Society for Leukocyte Biology

1996- Member, National Academy of Sciences

1997 Wellcome Visiting Professor, Wayne State University

2001- Fellow, American Academy of Arts and Sciences

2004 Crafoord Prize in Polyarthritis, Royal Swedish Academy of Sciences

2004 Fellowship, John Simon Guggenheim Memorial Foundation

2004- Honorary Chair Professor, Fudan University, Shanghai, China

2006- Honorary Professor, College of Life Sciences, Nankai University, Tianjin, China

2007- Honorary Professor, Shanghai Jiao Tong University

2010- John Warren Fellow, Harvard Medical School Dean’s Council

2011 Doctor Medicinae Honoris Causa, Aarhus University, Denmark

2013- Fellow, American Association for the Advancement of Science

2014 Meritorious Career Award, American Association of Immunologists

2014 Henry M. Stratton Medal, American Society of Hematology

2015 Biennial Medal for Contributions to Hemostasis, International Society on Thrombosis and Haemostasis

2019 Canada Gairdner International Award, Gairdner Foundation

2019 Anthony Cerami Award for Translational Medicine, Molecular Medicine

Major Committee Assignments:

National and Regional:

1980 Panel Member, NIAID Study Group on Immunology

1982 Ad Hoc Member, Experimental Immunology Study Section

1985 Ad Hoc Member, Allergy and Immunology Study Section

1986 Ad Hoc Member, Board of Scientific Councilors, National Institutes of Allergy and Infectious Disease

1986-1990 Member, Allergy and Immunology Study Section, National Institutes of Health

1989-2000 Councilor, International Leukocyte Workshop

1990 Organizer, International Conference on Leukocyte Adhesion Molecules, Titisee, Germany

1990-1992 Executive Committee, International Congresses on Inflammation

1991 Organizer, Banbury Center Conference on Adhesion Molecule Receptors and Disease, Cold Spring Harbor, New York

1991 Organizer, Juan March Foundation Workshop on Adhesion Receptors in the Immune System, Madrid, Spain

1991-1993 Scientific Advisory Board, New England Regional Primate Research Center

1994 Co-Organizer, Keystone Symposium, "Biology of Physicochemical Interactions at the Cell Surface"

1992-1994 Chair, Adhesion Structures Section, Fifth International Leukocyte Workshop

1994-1996 Chair, Endothelial Cell Section, Sixth International Leukocyte Workshop

1996-2000 Howard Hughes Medical Institute, Scientific Review Board

2011 NIAID/DIR Board of Scientific Counselors Review Meeting

2012 National Research Council Committee on “Proposal Evaluation for Allocation of Supercomputing Time for the Study of Molecular Dynamics.”

2018 Panel Member, Workshop on how future structural biology resources at APS-U can be used to address grand challenges for biological research, Advanced Photon Source, Argonne National Laboratory

2019-2024 Trustee and Member of the Board of Trustees, Marine Biological Laboratory

Harvard:

1982-1994 Committee on Cell and Developmental Biology

1989-1991 Ryan Fellowship Committee

1989- Executive Committee, Committee on Immunology

1989-1992 Center for Blood Research, Planning Director for Space in the Warren Alpert Building

1990-1993 Member and then Chair, Dunham Lectureship Committee

1991-1993 Faculty Fellowships Committee

1991- Chair and member, numerous ad hoc search committees for full professors and junior faculty members. Recruits from committees chaired: Rick van Etten, Jose-Carlos Gutierrez-Ramos, Uli von Andrian, Anjana Rao, Denisa Wagner, Sun Hur, Wesley Wong, Hao Wu

1991-1994 Committee on Immunology, Admissions Committee

1989- Appointments Committee, Center for Blood Research

1993-1994 Health Sciences and Technology Fellowships Committee

1993-2004 Executive Committee, Department of Pathology

1994- Ph.D. Program Faculty in Biomedical and Biological Sciences

* 1. Member, Faculty Council

2002-2011 Overseer, Board of Overseers, Center for Blood Research

2004- Committee on University Resources, Harvard University

2004- Member, Center for Molecular and Cellular Dynamics, Harvard Medical School

2010- Board of Trustees, Boston Children’s Hospital Board of Trust

Editorial Boards:

1981-1985 Associate Editor, Journal of Immunology

1981- Editorial Board, Hybridoma

1985-1995 Advisory Editor, Journal of Experimental Medicine

1988-1993 Editorial Board, Cellular Immunology

1988-1992 Editorial Board, Journal of Clinical Immunology

1989-1992 Editorial Board, New Biologist

1989-1992 Editorial Board, Cell Regulation (Molecular Biology of the Cell)

1992-1996 Associate Editor, Molecular Biology of the Cell

1996-2001 Editorial Board, Immunological Reviews

Memberships and Committee Assignments in Professional Societies:

1979- American Association of Immunologists

1981-1994 Reticuloendothelial Society

1982- American Society for Biochemistry and Molecular Biology

1985-1986 American Association of Immunologists Meeting, Block Chairman, Macrophages & Natural Killer Cells

1986 Reticuloendothelial Society, Membership Chair

1987 Program Committee, Reticuloendothelial Society (chair 1989)

1989- American Association of Pathologists

1993 Nomination Committee, American Association of Immunologists

1995- Society for Leukocyte Biology

2001 Canadian Vaccines and Immunotherapeutics Network, Scientific Advisor

* 1. Chair, Biophysics and Computational Biology (Section 29), National Academy of Sciences

Consulting:

1989-1995 Boehringer Ingelheim

1992-1999 LeukoSite, Inc., Founder and Chairman of Scientific Advisory Board

1995-1999 LeukoSite, Inc., Member, Board of Directors

1999-2001 Millennium Pharmaceuticals

2003 Sunesis Pharmaceuticals

2008- Selecta Biosciences, Board Director and Scientific Advisory Board Member

2010- Moderna Therapeutics, Board Director and Scientific Advisory Board Member

2011-2015 Pfizer, Inc., Resident Professor and Scientific Advisory Board Member

2012- Scholar Rock, Founder, Board Director, and Scientific Advisory Board Member

2015- Morphic Therapeutic, Founder, Board Director, and Scientific Advisory Board Member

2016- Institute for Protein Innovation, Co-Founder and Executive Chair

Major Research Interests: Adhesion Receptors of the Immune System, Integrins, von Willebrand factor, Transforming Growth Factor-β and Bone Morphogenetic Protein Family, Structural Vaccinology of Malaria

Teaching Experience:

1972-1974 Harvard University, Biochemistry 10 Teaching Assistant

1974-1975 Harvard University, Biochemistry 111 Teaching Assistant

1981 Instructor, Alton Jones Cell Culture Center Course on Macrophages, Lake Placid, NY

1984, 1986 Developer and leader, Harvard Medical School Continuing Education Course, "Hybridomas in Biotechnology and Medicine"

1985-1994 Course leader and lecturer, Harvard Medical School, Immunology 203, "Biochemistry and Molecular Biology of the Immune System"

1988 Lecturer, Harvard Medical School, "Identity, Microbes and Defense," in New Pathway Curriculum

1988-1994 Lecturer, Harvard University, Molecular and Cellular Biology 200a “Molecular Development of the Cell”

1989, 1993-1998 Lecturer, Harvard Medical School, Human Pathology, HST-030

1996, 1998 Lecturer, Rockefeller U., Cell Biology Course

1998 Lecturer, Harvard Medical School, Advanced Biomedical Sciences Course “Revisiting Biomedical Sciences and Pathology”

1999 Lecturer, Harvard University, Molecular and Cellular Immunology 169

1999 Presentation to Graduate Students, Harvard University, Biological and Biomedical Sciences

1999, 2001 Lecturer, Harvard University, Molecular Immunology 268

2003 Lecturer, Harvard University, Immunology Critical Reading Course 204

2007 Lecturer, Harvard University, Department of Biological Chemistry and Molecular Pharmacology 201 Proteins

2008-2013 Lecturer, Harvard Medical School, Biophysics 300 Seminar Series

2010 Lecturer, Department of Biological Chemistry and Molecular Pharmacology 201, Harvard Medical School

2012 Instructor, Division of Medical Sciences, Harvard Medical School Nanocourse, Immune System Molecules In Three Dimensions

2015-2016 Lecturer, Department of Biological Chemistry and Molecular Pharmacology 236, Harvard Medical School

Selected Lectures and Honors:

1990 Visiting Professor, University of Michigan, Ann Arbor, Michigan

1991 Centennial Celebration-Scientific Symposium, Washington University School of Medicine, St. Louis, Missouri

1991 Harvey Lecturer, William Harvey Research Institute, St. Bartholomew’s, London, England

1992 Keynote Address, Joint Keystone Symposia on “Inflammation, Growth Regulatory Molecules, and Atherosclerosis” and “The Molecular Biology of the Endothelial Cell,” Keystone, Colorado

1992 9th Zoltan Ovari Symposium Lecturer, The Honors Program, New York University Medical Center, New York City, New York

1992 1st Annual Invited Speaker, Pathology Department, Albert Einstein School of Medicine, Bronx, New York

1992 14th Annual Jim McGinnis Memorial Lecturer, Duke University Medical Center, Durham, North Carolina

1992 Lecturer, National Heart, Lung and Blood Institute Symposium on Atherosclerosis to Honor Gardner McMillian, Bethesda, Maryland

1992 Boehringer-Ingelheim Distinguished Lecturer in Biomedical Sciences, Vanderbilt University, Nashville, Tennessee

1993 Lecturer, William B. Coley Symposium, Frontiers of Immunology and Cancer Immunology, Cancer Research Institute and Memorial Sloan-Kettering, New York City, New York

1994 Lecturer, The Harvey Society, New York City, New York

1994 Juan March Foundation Lecturer, Madrid, Spain

1994 Basic Science Lecturer, American Association for Thoracic Surgery Annual Meeting, New York City, New York

1994 Burroughs-Wellcome Visiting Professor, Royal Society of Medicine, London, Cambridge, Birmingham, and Oxford, England

1994 Second Annual Norman Heatley Lecturer, University of Oxford, Sir William Dunn School of Pathology, Oxford, England

1. Second Daiichi Lecturer, UCSF, “The effect of force on bond lifetimes: Are selectins and integrins specialized for high tensile strength?” San Francisco, California

1995 Lecturer, Nobel Conference on "Cell Adhesion Molecules and Cell-Matrix Receptors in Vertebrate Tissues", Karolinska Institutet, Stockholm, Sweden

1995 Plenary Speaker and Symposium Co-Chair on Selectins, World Congress on Inflammation, Brighton, England

1996 Plenary Lecturer, Keystone Symposium, Exploring and Exploiting Antibody and Ig Superfamily Combining Sites, Taos, New Mexico

1996 Co-Organizer and Speaker, Vascular Endothelium and Regulation of Leukocyte Traffic Meeting, Instituto Juan March de Estudios e Investigaciones, Madrid, Spain

1. Welcome Visiting Professor, Wayne State University, Detroit, Michigan

1998 Presidential Symposium Speaker on Integrin Receptors, American Society of Haematology, Miami, Florida

1998 Keynote Lecturer, Third International Workshop on Signal Transduction in the Activation and Development of Mast Cells and Basophils, National Institutes of Health, Bethesda, Maryland

1998 Keynote Address, “Integrins and G Proteins: Structurally Homologous Proteins that Regulate Interactions Outside and Inside the Cell Membrane”, Society for Leukocyte Biology, Garda, Italy

1999 John T. Edsall Lecturer, Department of Molecular and Cellular Biology, Harvard University, Cambridge, Massachusetts

2000 Speaker, Crafoord Prize Symposia, The Royal Swedish Academy of Sciences, Sweden

2001 Keynote Address, Keystone Symposium, “Chemokine and Chemokine Receptors”, Taos, New Mexico

2001 Keynote Speaker, NCI Center for Cancer Research, Fellows Symposium, Bethesda, Maryland

2003 Speaker, The Future of Structural Biology, New York Structural Biology Center, New York City, New York

2003 Speaker, Dean's Lecture at Mount Sinai School of Medicine, New York City, New York

1. Speaker, President's Research Seminar Series, Memorial Sloan-Kettering Cancer Center, New York City, New York

2006 12th Annual Edmond Alexandre Goidl Lectureship on Immunology, University of Maryland at Baltimore, School of Medicine, Baltimore, Maryland

2008 Keynote Speaker, “Transendothelial Migration and Bidirectional Signal Transmission in Integrins”, Keystone Symposia, Keystone, Colarodo

2008 Lecturer, 12th International Vascular Biology Meeting, Sydney, Australia

2008 Lecturer, Spanish National Center for Cardiovascular Research Symposium, Madrid, Spain

2008 Lecturer, "A Structural Mechanism for Coordinating Ligand Binding by Integrins with Attachment to the Cytoskeleton", Department of Biosciences and Biotechnology, University of Helsinki, Helsinki, Italy

2008 Keynote Speaker, Beirne B. Carter Lecture in Immunology, University of Virginia, Charlottesville, Virginia

2008 Co-Chair & Lecturer, 48th American Society for Cell Biology Annual Meeting, San Francisco, California

2009 Speaker, “Bidirectional Signaling through Integrins Reinforces Ligand and Cytoskeleton Engagement”, Montana State University, Bozeman, Montana

2009 Lecturer, Gordon Research Conference on Fibronectin, Integrins & Related Molecules, Ventura, California

2009 Lecturer, “Interactions Between Platelets, von Willebrand Factor, and Hydrodynamic Shear Force”, 8th Annual Aster Lectures, Blood Research Institute, BloodCenter of Wisconsin, Milwaukee, Wisconsin

2009 Physiology Course Lecturer, Woods Hole Marine Biological Laboratory, Woods Hole, Massachusetts

2009 Speaker, “Interactions Between Platelets, von Willebrand Factor, and Hydrodynamic Shear Force”, D. E. Shaw Research, LLC (DESRES), New York City, New York

2009 Lecturer, "The Shear-Sensor Domain in the Ultra-Large Protein - von Willebrand Factor", PhysCell Conference, Primosten, Croatia

2009 Lecturer, Tri-Institutional Structural Biology Seminar Series, Memorial Sloan-Kettering Cancer Center and Weill Medical College, Rockefeller University, New York City, New York

2009 Roon Visiting Lecturer, “Interactions Between Platelets, von Willebrand Factor, and Hydrodynamic Shear Force”, The Scripps Research Institute, San Diego, California

2010 Speaker, Molecular Biophysics Discussion Group, UT Southwestern Medical Center, Dallas, Texas

2010 Platform Speaker, Keystone Symposia on Structural Analysis of Supramolecular Assemblies by Hybrid Methods, Lake Tahoe, California

2010 Speaker, “The Flex-Bond, a Mechanically Stabilized Receptor-Ligand Bond Important in the Vasculature,” Cell and Developmental Biology Seminar, University of Illinois at Urbana-Champaign, Urbana, Illinois

2010 Keynote Speaker, “The Traction Force Model for Integrin Activation”, Gordon Research Conference on Signaling by Adhesion Receptors, Colby College, Waterville, Maine

2010 Lecturer, Gordon Research Conference on Hemostasis, Waterville Valley, New Hampshire

2010 Lecturer, “The Traction-Force Model for Integrin Activation,” Department of Molecular Biology, University of Aarhus, Aarhus, Denmark

2011 Lecturer, “The Traction Force Model for Integrin Activation”, Immunology and Microbial Science Affinity Group, The Scripps Research Institute, La Jolla, California

2011 Speaker, “The Evidence of the Traction Force Model of Integrin Activation”, Gordon Research Conference on Fibronectin, Integrins and Related Molecules, Lucca, Italy

2011 Speaker, “Integrins and Tissue Inflammation”, American Society of Transplantation Symposium, San Francisco, California

2011 State of the Art Lecturer, “The Domain Architecture of VWF and Activation by Elongational Flow”, XXIII Congress of the International Society on Thrombosis and Haemostasis, Kyoto, Japan

2011 Lecturer, Department of Molecular Biology, University of Aarhus, Aarhus, Denmark

2011 Lecturer, “Biology and Physics of von Willebrand Factor Concatamers”, 17th IUPAB International Biophysics Congress, Beijing, China

2011 Keynote Speaker, “The Domain Architecture of VWF and Activation by Elongational Flow”, 5th Mechanobiology Conference on Mechanobiology of Multi-cellular Systems, Singapore City, Singapore

2012 Lecturer, 1st Molecular Approaches to Malaria (MAM) Conference, Lorne, Australia

2012 Lecturer, The Department of Cell Biology, NYU Langone Medical Center, New York City, New York

2012 Chair & Lecturer, "Improving Malaria Vaccine Strategies through the Application of Immunologic Principles", National Institute of Allergy and Infectious Diseases Workshop, Bethesda, Maryland

2012 Session Chair and Lecturer, "Single molecule studies on the von Willebrand factor", Gordon Research Conference on Single Molecule Approaches to Biology, West Dover, Vermont

2012 Speaker, “Structural Basis for Relay of Allostery in αI Integrins”, Spanish National Cancer Research Centre (CNIO) Frontiers Meetings on Allosteric Regulation of Cell Signalling, Madrid, Spain

2012 State of the Art Lecturer, 20th Annual Meeting of the Belgian Society on Thrombosis and Hemostasis, Antwerp, Belgium

2012 Speaker, “Activation of A1 domain adhesiveness in VWF by elongational force”, 54th American Society of Hematology Annual Meeting, Atlanta, Georgia

2013 Lecturer, 7th Biennial Single Molecule Biophysics Winter Conference, Aspen Center for Physics, Boulder, Colorado

2013 Lecturer, Malaria Research Institute, Johns Hopkins School of Public Health, Baltimore, Maryland

2013 Lecturer, Instruct Biennial Structural Biology Meeting, Europeal Molecular Biology Laboratory, Heidelberg, Germany

2013 Lecturer, AbbVie Seminar, AbbVie R&D, Cambridge, Massachusetts

2013 Lecturer, XXIVth Congress of the International Society on Thrombosis and Haemostasis, Amsterdam, Netherlands

2013 Physiology Course Lecturer, Woods Hole Marine Biological Laboratory, Woods Hole, Massachusetts

2013 Lecturer, Gordon Research Conference on Elastin, Elastic Fibers & Microfibrils, University of New England, Biddeford, Maine

2013 Lecturer, FASEB Conference on The TGF-β Superfamily: Signaling in Development & Diseases, Steamboat Springs, Colorado

2013 Lecturer, "Regulation of Transforming Growth Factor Beta Activity and Cardiovascular Disease"**,** Fondation des Treilles, Paris, France

2013 Plenary Lecturer, Korean Society for Molecular and Cellular Biology, Seoul, Korea

2013 Lecturer, "Structural Basis for Gliding Motility in *Plasmodium* and *Toxoplasma*", National Institute of Allergy and Infectious Diseases, Bethesda, Maryland

2014 Lecturer, "Integrins as Force-Regulated Signaling Machines", Midwinter Conference of Immunologists at Asilomar, Pacific Grove, California

2014 Lecturer, The Department of Biochemistry, UCSF, San Francisco, California

2014 Lecturer, The Department of Bioengineering, UC Berkeley, Berkeley, California

2014 AAI-Life Technologies Meritorious Career Award Lecturer, American Association of Immunologists Convention, Pittsburg, Pennsylvania

2014 Lecturer, "Biology and Physics of von Willebrand Factor Concatamers", The Landsteiner Lectures, University of Amsterdam, Amsterdam, Netherlands

2014 Lecturer, FASEB Conference on Immunoreceptor, Steamboat Springs, Colorado

2014 HHMI Summer Institute Lecturer, Woods Hole Marine Biological Laboratory, Woods Hole, Massachusetts

2014 Lecturer, 20th Annual Structural Biology Retreat, Cambridge, Massachusetts

2014 Plenary Lecturer, "Why Are Some Members of TGF-β Family Latent Whereas Others Are Not?" 10th International BMP Conference, Berlin, Germany

2014 Speaker, American Society for Matrix Biology Biennial Meeting, Cleveland, Ohio

2014 Lecturer, Cold Spring Harbor Asia Conference on Mechanisms of Transmembrane Signaling, Suzhou, China

2015 Lecturer, "How To Make Synthetic Antiboies to Neuronal Proteins: The Secrets That Immunlogists Won't Tell You", Kirby Neurobiology Center Lectures, Boston Children's Hospital, Boston, Massachusetts

2015 Lecturer, "VWF: Jedi Knight of the Bloodstream", “Shear flow regulation of Hemostasis - bridging the gap between Nanomechanics and Clinical Presentation, 1st International Shenc Symposium, Hamburg, Germany

2015 Lecturer, "Integrins in the Immune System: Biology and Therapeutics", University of Chicago, Chicago, IL

2016 Lecturer, “Landscapes and Mechanisms for Integrin Activation”, Platelets 2016: 9th International Symposium, Wellesley, Massachusetts

2016 Speaker, “Ensuring Validation through Training and Proficiency”, Antibody Validation: Standards, Policies and Practices, Asilomar Conference Grounds, Pacific Grove, California

2016 Lecturer, “A microglia context molecule for TGFβ required for maintenance of nervous system function”, 11th International BMP Conference, Boston, Massachusetts

2016 Lecturer, “A microglia context molecule for TGFβ required for maintenance of nervous system function”, University of Pittsburgh, Pittsburgh, PA

2017 Lecturer, “A Microglia Context Molecule for TGF-β Required for Maintenance of Nervous System Function”, TGF-β in Immunity, Inflamation and Cancer, Keystone Symposia on Molecular and Cellular Biology, Taos, New Mexico

2018 Lecturer, “A Novel Milieu Molecule for TGF-β Required for Microglia Function”, UT Southwestern Medical Center, Dallas, Texas

2018 Lecturer, “Synthetic Antibodies and Nanobodies for Structural Biology”, Advanced Photon Source (APS-U)- Macromolecular X-ray crystallography (MX) Workshop, Argonne National Laboratory, DuPage County, Illinois

2018 Plenary Lecturer, “Milieu molecules and localized TGF-β signaling”, American Society for Matrix Biology Biennial Meeting, Las Vegas, Nevada

2019 Invited Speaker, “The Milieu Model for TGF-β Activation”, Immune Engineering Symposium 2019, Koch Institute for Integrative Cancer Research at MIT, Cambridge, Massachusetts

2019 Invited Speaker, “Structural basis of GPIb-VWF binding, shear driven low/high affinity switch model for A1 domain, A2 domain destabilization by VWD 2A mutations”, Von Willebrand Factor/von Willebrand Disease Symposium, Sanofi, Waltham, Massachusetts

2019 Keynote Address, "A Novel Milieu Molecule for TGF-β Required for Microglia Function", Gordon Research Conference on Fibronectin, Integrins and Related Molecules, Lucca, Italy

2020 Invited Speaker, “Extracellular Signaling in the TGF-β Family", New Technologies in Skeletal Biology, Bones and Teeth Gordon Research Conference, Galveston, Texas

2020 Lecturer, “Communication between the extracellular landscape and the cytoskeleton by integrins and tensile force", Parker H. Petit Institute for Engineering and Bioscience, Georgia Tech, Georgia

Physician Fellows Trained and Current Positions:

Elizabeth Robbins, M.D., Associate Clinical Professor, Pediatrics, UCSF, San Francisco, CA; Julio Garcia-Aguilar, M.D., Ph.D., Professor of Surgery, UCSF, San Francisco, CA; Olli Carpen, M.D., Ph.D., Chair and Professor, Department of Pathology, University of Turku, Turku, Finland; Stephan Martin, M.D., Professor, German Diabetes Research Institute, Heinrich Heine University, Duesseldorf, Germany; Akira Yokota, M.D., Ph.D., Director, Division of Allergy and Rheumatology, Osaka Prefectural Habiko Hospital, Japan; Lilli Petruzzelli, M.D., Ph.D., VP Oncology Translational Medicine, Novartis, Cambridge, MA; Ted Post, M.D., Deputy Editor, Up-to-Date, Inc., Wellesley, MA.; Tatsuo Kinashi, M.D., Ph.D., Professor, Department of Molecular Genetics, Institute of Biomedical Science, Kansai Medical University, Moriguchi, Osaka, Japan; Lloyd Klickstein, M.D., Ph.D., Head of Translational Medicine, Novartis Institutes for BioMedical Research, Cambridge, MA; David Chang, M.D., Ph.D., Chief Medical Officer and VP of Research & Development, Kite Pharma, Inc., Santa Monica, CA; Antje Kirchhoff, M.D., Pediatric Nephrologist, Universitätsklinikum Würzburg, Würzburg, Germany; Thomas G. Diacovo, M.D., Associate Professor, Pediatrics and Pathology & Cell Biology, Columbia University Medical Center; Stephen J. Roth, M.P.H., M.D., Professor of Pediatrics, Division of Pediatric Cardiology, Lucile Packard Children's Hospital, Stanford University School of Medicine, Palo Alto, CA; Robert Fuhlbrigge, M.D., Ph.D., Associate Professor, Pediatrics and Dermatology, Harvard Medical School, Boston, MA; Christian Weber, M.D., Professor, Institute for Cardiovascular Prevention, Ludwig Maximilians University of Munich, Munich, Germany; Joji Kitayama, M.D., Ph.D., Associate Professor of Surgerical Oncology, University of Tokyo, Tokyo, Japan; Conrad C. Bleul, M.D., Global Program Medical Director, Novartis, Basel, Switzerland; Daniel Jones, M.D., Ph.D., Professor, Department of Hematopathology, MD Anderson Cancer Center, Houston, TX; Maarten de Château, M.D., Ph.D., CEO and Founder of Cormorant Pharmaceuticals, Solna, Sweden; Motomu Shimaoka, M.D., Ph.D., Professor and Chair, Molecular Pathobiology and Cell Adhesion Biology, Mie University, Mie, Japan; Koichi Yuki, M.D., Associate in Cardiac Anesthesia of Boston Children's Hospital, Instructor in Anaesthesia of Harvard Medical School, Boston, MA; Kunio Hieshima, M.D., Ph.D., Assistant Professor, Department of Microbiology, Kinki University Faculty of Medicine, Osaka, Japan; Saurabh Patel, M.D., Ph.D., Attending, Gastroenterology/Nutrition, Boston Children’s Hospital, Boston, MA

Postdoctoral Fellows Trained and Current Positions:

Konrad Kürzinger, Ph.D., Director and Head of Protein Chemistry, Roche Diagnostic GmbH, Research Center, Tutzing, West Germany; Alok Bhattacharya, M.Sc., M. Phil., Ph.D., Professor, Jawaharlal Nehru University, New Delhi, India; Carl Ware, Ph.D., Director of Infectious and Inflammatory Diseases Center, Professor of Molecular Immunology, Sanford-Burnham Medical Research Institute, La Jolla, CA; Maykin Ho, Ph.D., Managing Director, Goldman Sachs, New York, NY; Francisco Sanchez-Madrid, Ph.D., Professor of Immunology, Hospital de la Princesa, Autonomous University of Madrid, Madrid, Spain; Janice Nagy, Ph.D., Principal Associate of Pathology, Beth Israel Deaconess Hospital, Harvard Medical School, Boston, MA; Robert Rothlein, Ph.D., former Senior Vice President, Biology, Transtech Pharma, High Point, NC (deceased); Steven Marlin, Ph.D., former Vice President of Business Development, Alliances in Government Affairs, Boehringer-Ingelheim, Ridgefield, CT; Marian L. Plunkett, Ph.D., Associate Director, Cell Biology, Attenuon, San Diego, CA; Leandro Sastre, Ph.D., Investigador Científico, Centro de Investigaciones Biológicas, Consejo Superior de Investigaciones Científicas, Madrid, Spain; Angel Corbi Lopez, Ph.D., Professor, Centro de Investigaciones Biológicas, Consejo Superior de Investigaciones Científicas, Madrid, Spain; Andrew Wardlaw, Ph.D., Professor of Respiratory Medicine, Director of Institute for Lung Health, University of Leicester, Leicester, England; Periasamy Selvaraj, Ph.D., Professor, Department of Pathology and Laboratory Medicine, Emory University School of Medicine, Atlanta, GA; Po-Ying Chan-Hui, Ph.D., Senior Director of In Vitro Pharmacology, Theraclone Sciences, Seattle, WA; Margaret Hibbs, Ph.D., Associate Professor of Immunology, Monash University, Melbourne, Australia; Steven Stacker, Ph.D., Professor and Head of Tumor Angiogenesis, Peter MacCallum Cancer Center, Melbourne, Australia; Donald Staunton, Ph.D., President and Chief Scientific Officer, CisThera Inc., Kirkland, WA; Michael B. Lawrence, Ph.D., Associate Professor, Department of Biomedical Engineering, University of Virginia, Charlottesville, VA; Caroline Bilsland, Ph.D., Clinical Research Associate, National Medical Research Corporation, Blue Bell, PA; Yves St. Pierre, M.Sc., Ph.D., Professor, INRS-Institute Armand-Frappier, Institut National de la Recherche Scientifique, University of Quebec, Laval, Quebec, Canada; Hong Xu, Ph.D., Director, Licensing and Development, Pfizer, New London, CT;

Dennis Wong, Ph.D., Group Medical Director, Bristol-Myers Squibb, New York, NY; John Luk, Ph.D., Senior Director, Janssen Pharmaceuticals R&D, Shanghai, China; Songqing Na, Ph.D., Research Scientist, Cancer Inflammation and Cell Survival Research, Lilly Research Laboratories, Eli Lilly and Company, Indianapolis, IN; Jean-Philippe Girard, Ph.D., Director, Institute of Pharmacology and Structural Biology, Centre National de la Recherche Scientifique, Toulouse, France; Ronen Alon, M.Sc., Ph.D., Professor, The Linda Jacobs Chair in Immune and Stem Cell Research, Weizmann Institute of Science, Rehovot, Israel; Kamal D. Puri, Ph.D., Director, Immunology & Inflammation, Celgene, Boston, MA; Chi Chi Huang, M.S., Ph.D., Scientific Director, Janssen R&D, Philadelphia, PA; Jose Casasnovas, M.Sc., Ph.D., Professor, National Center for Biotechnology - Spanish National Research Council (NCB-CSIC), University of Madrid, Madrid, Spain; Claus Oxvig, Ph.D., Professor, Department of Molecular Biology and Genetics, Aarhus University, Aarhus, Denmark; Chafen Lu, Ph.D., Assistant Professor, Boston Children’s Hospital, Boston, MA; Qun Zang, Ph.D., Assistant Professor, Department of Surgery, Southwestern Medical Center, Dallas, TX; Eric Fedyk, Ph.D., Global Program Leader, Takeda Pharmaceuticals International, Chicago, IL; Padmaja Yalamanchili, Ph.D., Senior Research Investigator, Discovery Biology, Bristol Myers Squib Medical Imaging, Billerica, MA; Chang-Duk Jun, Ph.D., Professor, School of Life Sciences, Gwangju Institute of Science and Technology, Korea; Qing Ma, Ph.D., Associate Professor, Department of Stem Cell Transplantation, University of Texas MD Anderson Cancer Center, Houston, TX; Holly Jing, Ph.D., Consultant and Co-Founder, 3D BioPharma Inc., San Diego, CA; Junichi Takagi, Ph.D., Professor, Laboratory of Protein Synthesis and Expression, Institute for Protein Research, Osaka University, Osaka, Japan; Azucena Salas, Ph.D., Ramon y Cajal Investigator, Instituto de Investigaciones Biomedicas August Pi i Sunyer (IDIBAPS), Barcelona, Spain; Minsoo Kim, Ph.D., Associate Professor, Department of Microbiology & Immunology, David H. Smith Center for Vaccine Biology and Immunology, University of Rochester Medical Center; Thomas Vorup-Jensen, Ph.D., Professor of Medical Microbiology and Immunology, University of Aarhus, Denmark; Doohun Kim, Ph.D., Associate Professor, Department of Biotechnology, Ajou University, Suwon, South Korea; Nathan Astrof, Ph.D., Instructor, Department of Biochemistry and Microbiology, Rutgers University, Piscataway, NJ; Shuqi Chen, Ph.D., Chief Executive Officer, IQuum Inc., Marlborough, MA; Christopher Carman, Ph.D., Assistant Professor, Department of Medicine, Beth Israel Deaconess Medical Center, Harvard Medical School, Boston, MA; Moonsoo Jin, Ph.D., Associate Professor, Department of Biomedical Engineering, Weill Cornell Medical College, Cornell University, New York, NY; Uyen Phan, Ph.D., Principal Scientist, Merck, Palo Alto, CA; Tsan Xiao, Ph.D., Chief, Structural Immunobiology Unit Laboratory of Immunology National Institute of Allergy and Infectious Diseases National Institutes of Health; Wei Yang, Ph.D., Head, Department of Molecular Biology, Beijing Novo Nordisk Pharmaceuticals Sci & Tech Co. 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**Publications**

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