**2016 Introductory Course in Immunology**

**July 9–14, 2016** • Long Beach Convention Center, Long Beach, California

Director: Juan Carlos Zuñiga-Pflücker, Ph.D.
University of Toronto and Sunnybrook Research Institute

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**Don’t miss the most comprehensive introduction to immunology available!**

This intensive two-part course, taught by world-renowned immunologists, provides a comprehensive overview of the basics of immunology. This course is for students new to the discipline or those seeking more information to complement general biology or science training. **Part I (July 9–11)** is a detailed introduction to the basic principles of immunology and is suitable for students with a general biology background. **Part II (July 12–14)** is a clinically oriented lecture series focusing on specialty areas.

Parts I and II may be taken independently at the discretion of the student.

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**Faculty**

Juan Carlos Zuñiga-Pflücker, University of Toronto and Sunnybrook Research Institute

*Introduction to the Immune System*

Lewis L. Lanier, University of California, San Francisco

*Innate Immunity: Introduction to the Cells*

Deborah A. Fraser, California State University Long Beach

*Complement*

Helen S. Goodridge, Cedars-Sinai Medical Center

*Innate Immunity: Introduction to Pattern Recognition and Intracellular Signaling*

Wendy L. Havran, The Scripps Research Institute

*Introduction to Adaptive Immunity*

Nilabh Shastri, University of California, Berkeley

*Antigen Processing and Presentation*

Juan Carlos Zuñiga-Pflücker, University of Toronto and Sunnybrook Research Institute

*MHC Restriction and Thymic Selection*

David Nemazee, The Scripps Research Institute

*B Cell Development and Maturation*

Shannon J. Turley, Genentech, Inc.

*Dendritic Cells: The Bridge Between Innate and Adaptive Immunity*

Michael Croft, La Jolla Institute for Allergy and Immunology

*Effector T Cell Differentiation and Response*

Shane Crotty, La Jolla Institute for Allergy and Immunology

*B Cell Activation and Humoral Immunity*

Arthur Weiss, University of California, San Francisco

*Signaling in the Immune System*

Wenjun Ouyang, Amgen

*Cytokines*

Stephen M. Hedrick, University of California, San Diego

*Host-Pathogen Co-evolution in Human Beings: the Red Queen and the Grim Reaper*

David C. Parker, Oregon Health and Science University

*T and B Cell Tolerance*

Matthias G. von Herrath, La Jolla Institute for Allergy and Immunology

*Autoimmunity*

Olivia M. Martinez, Stanford University School of Medicine

*Transplantation*

Peter B. Ernst, University of California, San Diego

*Mucosal Immunology*

Marion Pepper, University of Washington

*Type 2 Immunity*

Linda A. Sherman, The Scripps Research Institute

*Tumor Immunology*

Robert L. Modlin, University of California, Los Angeles

*David Geffen School of Medicine*

*Immunity to Bacterial Pathogens*

Steven M. Varga, University of Iowa

*Immunity to Viruses*

Martin Prlic, Fred Hutchinson Cancer Research Center

*Immunologic Memory*

Nicole Frahm, Fred Hutchinson Cancer Research Center

*Vaccination*

Jennifer M. Puck, University of California, San Francisco

*Genetic Approaches to Immune-Mediated Diseases*

Andrew C. Chan, Genentech, Inc.

*Bench to Bedside to Bench: Current Issues in Immunology*

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For complete course details and registration, visit: [www.aai.org/Education/Courses](http://www.aai.org/Education/Courses)

For assistance, contact (301) 634-7178 or meetings@aai.org. Overseas applicants are advised to apply early for visas; for details, visit [www.aai.org/Education/Courses/Visa.html](http://www.aai.org/Education/Courses/Visa.html).
2016 Advanced Course in Immunology
July 31–August 5, 2016 • Seaport World Trade Center, Boston, Massachusetts

Director: Ulrich H. von Andrian, M.D., Ph.D.
Harvard Medical School and Ragon Institute at MGH, MIT and Harvard

Don’t miss the premier course in immunology for research scientists!
This intensive course is directed toward advanced trainees and scientists who wish to expand or update their understanding of the field. Leading experts will present recent advances in the biology of the immune system and address its role in health and disease. This is not an introductory course; attendees will need to have a firm understanding of the principles of immunology.

Faculty

Ulrich H. von Andrian, Harvard Medical School and Ragon Institute at MGH, MIT and Harvard
Anatomy of the Immune Response

Jonathan C. Kagan, Children’s Hospital Boston
Harvard Medical School
Innate Immunity: Pattern Recognition and Anti-microbial Mechanisms

Bruce Horwitz, Brigham & Women’s Hospital, Harvard Medical School
Innate Immunity: Gene Regulation

Albert S. Bendelac, University of Chicago
Innate Immunity: Cellular Mechanisms

Wayne M. Yokoyama, Washington University School of Medicine
NK Cells — Their Receptors and Function in Health and Disease

Michael C. Carroll, Immune Disease Institute
Harvard Medical School
Molecular and Cellular Mediators of Inflammation

Brian T. Edelson, Washington University School of Medicine
Dendritic Cells

Eugene M. Oltz, Washington University School of Medicine
The Generation and Modification of Lymphocyte Antigen Receptor Genes

Kay L. Medina, Mayo Clinic
B Cell Development

Avinash Bhandoola, NCI, NIH
T Cell Development

Kenneth L. Rock, University of Massachusetts Medical School
MHC-Restricted Antigen Presentation to T Cells

Leslie J. Berg, University of Massachusetts
Medical School
Signaling from Antigen Receptors

Stephen C. Jameson, University of Minnesota Center for Immunology
T Cell Memory

Patrick C. Wilson, University of Chicago
B Cell Memory

Arup K. Chakraborty, Massachusetts Institute of Technology
Computational Modeling of Immunological Processes

Brian A. Cobb, Case Western Reserve University
School of Medicine
Glycoimmunology

Richard S. Blumberg, Brigham & Women’s Hospital, Harvard Medical School
Mucosal Immunity

Joel D. Ernst, New York University School of Medicine
Immune Response to Pathogens

Jennifer Anolik, University of Rochester Medical Center
B Cell Tolerance and Autoimmunity

Vijay K. Kuchroo, Brigham & Women’s Hospital, Harvard Medical School
T Cell Tolerance and Autoimmunity

Kevin J. Tracey, Feinstein Institute for Medical Research
Neuroimmunology

Lisa H. Butterfield, University of Pittsburgh
Tumor Immunology

Dania Rabah, Biogen Idec
Immunotherapeutics

Dennis W. Metzger, Albany Medical College
Vaccines

For complete course details and registration, visit: www.aai.org/Education/Courses

For assistance, contact (301) 634-7178 or meetings@aai.org. Overseas applicants are advised to apply early for visas; for details, visit www.aai.org/Education/Courses/Visa.html.
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IMMUNOLOGY 2018™
May 4–8
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2019

IMMUNOLOGY 2019™
May 9–13
San Diego, California
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