2022 ADVANCED COURSE IN IMMUNOLOGY
July 24–29, 2022
Director: Wayne M. Yokoyama, M.D., DFAAI
Washington University School of Medicine

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. World-renowned immunologists 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 basic principles of immunology and laboratory techniques.

Faculty
Ulrich H. von Andrian, Harvard Medical School, Ragon Institute of MGH, MIT, and Harvard
Anatomy of the Immune Response
Jonathan C. Kagan, Boston Children’s Hospital, Harvard Medical School
Innate Immunity: Pattern Recognition and Anti-microbial Mechanisms
Susan Carpenter, University of California, Santa Cruz
Innate Immunity: Gene Regulation
Wayne M. Yokoyama, Washington University School of Medicine
NK Cells—Their Receptors and Function in Health and Disease
Albert S. Bendelac, University of Chicago
Innate Immunity: Cellular Mechanisms
Claudia Jakubzick, Geisel School of Medicine at Dartmouth
Myeloid Cells in Immune Responses
Eugene M. Oltz, The Ohio State University, Wexner School of Medicine
The Generation and Modification of Lymphocyte Antigen Receptor Genes
Michael P. Cancro, University of Pennsylvania Perelman School of Medicine
B Cell Development
Avery August, Cornell University
T Cell Development
Kai W. Wucherpfennig, Dana-Farber Cancer Institute, Harvard Medical School
MHC-restricted Antigen Presentation to T Cells
Daniel D. Billadeau, Mayo Clinic College of Medicine
Signaling from Antigen Receptors
Stephen Jameson, University of Minnesota Medical School
T Cell Memory
Deepa Bhattacharya, University of Arizona
B Cell Memory
Michael C. Carroll, Boston Children’s Hospital, Harvard Medical School
Molecular and Cellular Mediators of Inflammation
Alex K. Shadek, MIT, Ragon Institute of MGH, MIT, and Harvard
Broad Institute of MIT and Harvard
Single Cell RNA-seq Analysis
Cathryn Nagler, University of Chicago
Effect of the Microbiome on Immunity
Michael S. Diamond, Washington University School of Medicine
Immune Response to SARS-CoV-2
Vijay K. Kuchroo, Brigham & Women’s Hospital, Harvard Medical School
T Cell Tolerance and Autoimmunity
Jonathan Kipnis, Washington University School of Medicine
Neuroimmunology
Robert D. Schreiber, Washington University School of Medicine
Tumor Immunology
Joanne L. Viney, Seismic Therapeutics
Immunotherapeutics
Michael J. Lenardo, NIAID, NIH
Redefining Human Immunology
Galit Alter, Ragon Institute of MGH, MIT, and Harvard
Vaccines
Also included will be lectures on:
Dendritic Cells
B Cell Tolerance and Autoimmunity

For complete course details and registration, visit www.aai.org/AdvancedCourse.
For assistance, contact (301) 634-7178 or meetings@aai.org
Fellowship Overview

Recognizing the vital role cross-trained scientists play in furthering immunology research, this fellowship program is intended to promote understanding and communication between immunology researchers and computational scientists. A PI may apply for a one-year fellowship, which will support a postdoctoral fellow trained in basic bench research to train in computational science, or a postdoctoral fellow in computational science to train in an immunology research lab to learn basic immunological principles and laboratory techniques. Reciprocal six-month exchanges between labs will also be considered.

Eligibility

One of the collaborating PIs must be an AAI member in good standing. If the PI is a research immunologist, he/she must be independent. Applicants may request salary support for a maximum of one postdoctoral fellow for one year, or two postdocs for six months each.

Trainees must be in years one through five of postdoctoral training in the physical/mathematical/computational sciences, immunology, or related fields. Postdoctoral fellows who have completed five years of training and transitioned into a second postdoctoral position will be considered on a case-by-case basis.

Review Process

Award consideration is based on a combination of the qualifications of the applicant, the merit of the PI's proposed project, the potential of the trainee, and the quality of the training environment.

For more information or to apply, visit www.aai.org/Intersect.
Please direct inquiries to fellowships@aai.org.

If the application deadline falls on a weekend day or a federal holiday, applications will be due on the next regular business day.