

THE JOURNAL OF IMMUNOLOGY

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96TH AAI ANNUAL MEETING
PROGRAM PREVIEW ISSUE

PROGRAM PREVIEW

96TH ANNUAL MEETING
THE AMERICAN ASSOCIATION
OF IMMUNOLOGISTS

IMMUNOLOGY 2009™



Washington State Convention & Trade Center • Seattle, Washington • May 8–12, 2009



Important Links

Online Registration ■ www.IMMUNOLOGY2009.org/registration.htm

Hotel Reservations ■ www.IMMUNOLOGY2009.org/housing.htm

International Attendees ■ www.IMMUNOLOGY2009.org/VisalInformation.htm

For program updates and complete meeting information, visit

www.IMMUNOLOGY2009.org

IMMUNOLOGY 2009™

PROGRAM



See you in Seattle!

AAI PRESIDENTIAL PROGRAM



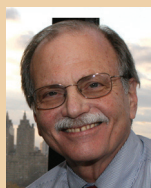
AAI Presidential Address

TCR Signal Transduction: Opening the Black Box

FRIDAY, MAY 8, 2009 ■ 5:00 PM

Arthur Weiss, HHMI, University of California,
San Francisco, AAI President

Introduction: **Gary A. Koretzky**, University of Pennsylvania
School of Medicine



Presentation of the AAI Lifetime Achievement Award

FRIDAY, MAY 8 ■ 5:00 PM

Chair: **Arthur Weiss**, HHMI, University of California,
San Francisco, AAI President

Award Recipient: **Steven J. Burakoff**, The Tisch Cancer
Institute, Mount Sinai Medical Center

The AAI Lifetime Achievement Award is the highest honor bestowed by the AAI Council upon an AAI member. This award recognizes a deserving member for a career of scientific achievement and for contributions to AAI and fellow immunologists. The award will be presented prior to the start of the AAI Presidential Address.

AAI Presidential Symposium

Signaling by Antigen Receptors: From Molecules to Models

MONDAY, MAY 11, 2009 ■ 2:30 PM

Chair: **Arthur Weiss**, HHMI, University of California, San Francisco,
AAI President



Lawrence E. Samelson
NCI, NIH
*Signaling at
the T cell
antigen receptor*



Gary A. Koretzky
University of
Pennsylvania
School of Medicine
*Regulation of
immune cell
development and
function by adapter
proteins*



Doreen A. Cantrell
University of
Dundee
*Matching
lymphocyte
metabolism and
migration*



Arup K. Chakraborty
Massachusetts
Institute of
Technology
*Molecular origin
and functional
consequences of
digital signaling in
lymphocytes*



Presentation of the AAI Excellence in Mentoring Award

MONDAY, MAY 11 ■ 2:30 PM

Chair: **Arthur Weiss**, HHMI, University of California,
San Francisco, AAI President

Award Recipient: **David Baltimore**, California Institute
of Technology

Introduction: **Frederick W. Alt**, HHMI, Children's Hospital
Boston, CBR Institute, Harvard Medical School

The AAI Excellence in Mentoring Award recognizes an AAI member's exemplary career contributions to a future generation of scientists. The award will be presented prior to the start of the AAI Presidential Symposium.

AAI DISTINGUISHED LECTURES

Generously supported by eBioscience, Inc.



SATURDAY, MAY 9
5:00 PM

Megan Sykes
Massachusetts General
Hospital and Harvard
Medical School
*Controlling the
alloresponse:
between benches,
to the bedside
and back*



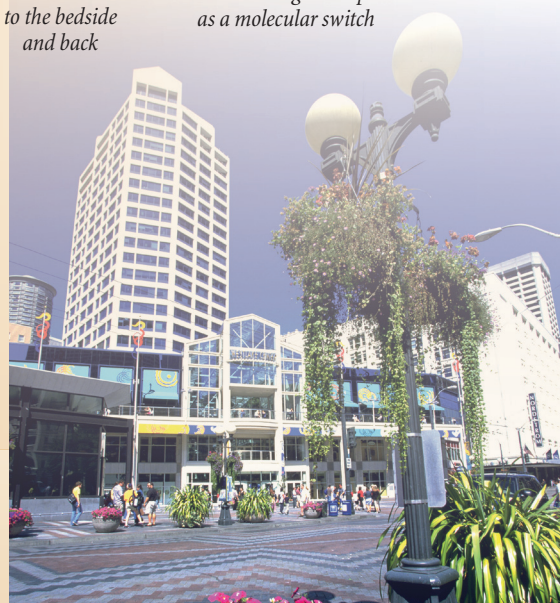
SUNDAY, MAY 10
5:00 PM

John C. Cambier
University of Colorado
Denver School of
Medicine and National
Jewish Health
*Anergy vs. activation:
the B cell antigen receptor
as a molecular switch*



MONDAY, MAY 11
5:00 PM

Alexander Y. Rudensky
HHMI, Memorial
Sloan-Kettering
Cancer Center
*Foxp3: a key to
dominant tolerance*



96th Annual Meeting The American Association of Immunologists

May 8–12, 2009 • Seattle, Washington
Washington State
Convention & Trade Center

AAI MAJOR SYMPOSIA

SATURDAY, MAY 9, 2009 ■ 8–11:30 AM

Major Symposium A: *Triggers of Autoimmunity*

Chair: **Joanne L. Viney**, Amgen Corporation

Co-Chair: **Dale T. Umetsu**, Children's Hospital Boston and Harvard Medical School

Joanne L. Viney, Amgen Corporation, *Triggers of intestinal inflammation*

Dale T. Umetsu, Children's Hospital Boston and Harvard Medical School, *IL-17-producing natural killer T cells in the lungs*

Joan M. Goverman, University of Washington, *Th17 and Th1 cells in CNS autoimmunity*

Nicholas P. Restifo, NCI, NIH, *Triggering autoimmunity with cancer therapeutics*

Alexander V. Chervonsky, University of Chicago, *Commensal bacteria and type 1 diabetes*

Sarkis K. Mazmanian, California Institute of Technology, *Dysbiosis as a trigger for autoimmune colitis and systemic inflammation*

Major Symposium B: *The Inflammasome*

Chair: **Gabriel Núñez**, University of Michigan

Co-Chair: **Jonathan A. Harton**, Albany Medical College

Gabriel Núñez, University of Michigan Cancer Center, *Activation of the inflammasome by bacterial pathogens*

Jenny P.Y. Ting, Lineberger Comprehensive Cancer Center, *Genetic and functional analysis of NLR genes*

Vishva M. Dixit, Genentech, Inc., *The cryopyrin/NALP3 inflammasome*

Jonathan A. Harton, Albany Medical College,

Pyrin-only proteins: regulators of the inflammasome

Fayyaz S. Sutterwala, University of Iowa, *Sterile inflammatory responses mediated by the NLRP3 inflammasome*

Eicke Latz, University of Massachusetts Medical School, *Activation of the NALP3 inflammasome by lysosomal damage*

SUNDAY, MAY 10, 2009 ■ 8–11:30 AM

Major Symposium C: *Bridging Adaptive and Innate Immunity*

Generously supported by Kyowa Hakko Kirin California, Inc.

Chair: **Hilde Cheroutre**, La Jolla Institute for Allergy and Immunology

Co-Chair: **Youhai H. Chen**, University of Pennsylvania School of Medicine

Carla V. Rothlin, Salk Institute, *TAMing inflammation: introducing a novel anti-inflammatory receptor tyrosine kinase signaling pathway*

Youhai H. Chen, University of Pennsylvania School of Medicine, *Toll-like receptor signaling: gene- and signal-specific regulators*

Eugene C. Butcher, Stanford University, *Chemoattractant receptors at the interface of innate and adaptive immunity*

Wendy L. Havran, The Scripps Research Institute, *Crosstalk between gamma delta T cells and their epithelial neighbors*

Hilde Cheroutre, La Jolla Institute for Allergy and Immunology, *Mucosal immunity: it is all a matter of "gut" decisions*

Randolph J. Noelle, Dartmouth Medical School, *Regulation of peripheral tolerance in transplantation and cancer*

Major Symposium D: *MicroRNAs*

Chair: **Judy Lieberman**, Immune Disease Institute and Harvard Medical School

Co-Chair: **K. Mark Ansel**, University of California, San Francisco

K. Mark Ansel, University of California, San Francisco, *MicroRNA homeostasis in lymphocytes*

Joshua Mendell, Johns Hopkins University School of Medicine, *MicroRNA reprogramming by oncogenes and tumor suppressors*

Judy Lieberman, Immune Disease Institute and Harvard Medical School, *Silencing cell proliferation*

Chang-Zheng Chen, Stanford University School of Medicine, *Micromanaging immune systems by the miR-181 family genes*

Jeffrey A. Bluestone, University of California, San Francisco, *Role of microRNAs in autoimmunity: a key role in regulatory and memory T cell function*

David Baltimore, California Institute of Technology, *MicroRNAs and immunity*

MONDAY, MAY 11, 2009 ■ 8–11:30 AM

Major Symposium E: *Epigenetic Regulation of the Immune Response*

Chair: **Ann J. Feeney**, The Scripps Research Institute

Co-Chair: **Stephen T. Smale**, University of California, Los Angeles

Ann J. Feeney, The Scripps Research Institute, *Epigenetic regulation of immunoglobulin gene recombination*

Cornelis Murre, University of California, San Diego, *The 3-D structure of the immunoglobulin heavy chain locus: implications for the generation of antibody diversity*

Michael S. Krangel, Duke University Medical Center, *Epigenetic regulation of TCR gene assembly*

Amy S. Weinmann, University of Washington, *The role for T-box proteins in establishing epigenetic states in immune cells*

Stephen T. Smale, University of California, Los Angeles, *Selective regulation of pro-inflammatory genes by chromatin*

Christopher B. Wilson, University of Washington, *Epigenetic regulation of T helper cell differentiation and function*

Major Symposium F: *T Cell Response to Pathogens*

Chair: **Michael J. Bevan**, HHMI, University of Washington, Seattle

Co-Chair: **Marcia A. Blackman**, Trudeau Institute

John T. Hartly, University of Iowa, *CD8⁺ T cell immunity to microbes*

Marcia A. Blackman, Trudeau Institute, *The impact of aging on T cell repertoire and immunity to influenza virus*

Nilabh Shastri, University of California, Berkeley, *Immune responses to Toxoplasma Gondii*

Francis R. Carbone, University of Melbourne, *Dendritic cells and tissue-resident T cells contribute to the memory response during localized infections*

David Masopust, University of Minnesota, *Memory T cells: issues of quantity, quality and location*

Cliona M. Rooney, Baylor College of Medicine, *Improving multipathogen-specific T cell therapies*

FOR MORE INFORMATION, SEE WWW.IMMUNOLOGY2009.ORG



IMMUNOLOGY 2009™

TUESDAY, MAY 12, 2009 ■ 8–11:30 AM

Major Symposium G: *IL-23/IL-17 Axis in T Cell Differentiation and Tissue Inflammation*

Chair: **Vijay K. Kuchroo**, Harvard Medical School and Brigham and Women's Hospital

Co-Chair: **Wenjun Ouyang**, Genentech, Inc.

Steven D. Levin, ZymoGenetics, Inc., *Ancillary molecules in the development and function of Th17 cells*

Vijay K. Kuchroo, Harvard Medical School and Brigham and Women's Hospital, *Reciprocal relationship between Treg and Th17 cells*

Wenjun Ouyang, Genentech, Inc., *The functions of IL-22 and IL-17 in autoimmune and infectious diseases*

John J. O'Shea, NIAMS, NIH, *Signal transduction in Th17 development*

Sarah L. Gaffen, University of Pittsburgh, *Structure-function relationships in the IL-17 receptor complex*

Major Symposium H: *Cell Fate Decisions in Lymphocyte Development*

Chair: **Ellen V. Rothenberg**, California Institute of Technology

Co-Chair: **Jonathan G. Kaye**, The Scripps Research Institute

Jonathan G. Kaye, The Scripps Research Institute, *Multiple roles for nuclear factor TOX in development of the immune system*

Paul E. Love, NICHD, NIH, *A new T cell-specific protein with a critical role in thymocyte development*

Harald von Boehmer, Dana-Farber Cancer Institute and Harvard Medical School, *Notch1 and c-myc in alpha beta T-lineage fate and lymphoma*

Nancy A. Speck, University of Pennsylvania School of Medicine, *Roles of core binding factors (Runx/CBF β) in hematopoietic lineage choice*

Ellen V. Rothenberg, California Institute of Technology, *A genomic view of T-lineage specification and commitment*

Avinash Bhandoola, University of Pennsylvania School of Medicine, *Notch signals constrain the myeloid potential of early thymic progenitors*

SPECIAL EVENTS

AAI Opening Reception

Generously sponsored by eBioscience, Inc.

Friday, May 8 ■ 6:30 – 8:00 PM ■ WSCTC Exhibit Hall

New this year! Immediately following the Presidential Address, attendees are invited to the exhibit floor to seek out friends and the many exciting new offers from the AAI exhibitors.

Young Investigators Party (YIP!)

Saturday, May 9 ■ 9:00 – 11:00 PM

Grand Hyatt Seattle Hotel ■ Leonesa Ballroom

This always popular event has been scheduled for Saturday “prime time” this year and given a new format. Young scientists will enjoy a relaxed but festive atmosphere to meet, network—and dance!

AAI Gala

Generously sponsored by BioLegend

Sunday, May 10 ■ 7:00 – 10:00 PM

Benaroya Concert Hall, Seattle

For AAI members with invitations only

Following a reception in the spectacular atrium lobby of the Benaroya Hall, guests will enter the concert hall for a program tailored uniquely for AAI!



BLOCK SYMPOSIA

Submitted abstracts are programmed into oral or poster sessions; oral sessions are called Block Symposia. Each abstract selected for a Block Symposium will also be presented in a Poster Session. Approximately 50 Block Symposia will be presented at IMMUNOLOGY 2009™; all sessions will be held in the Washington State Convention & Trade Center.

POSTER SESSIONS

The most interactive part of the meeting! Discuss data and research issues firsthand with authors at the Poster Sessions. Posters will be displayed Saturday through Monday in the Washington State Convention & Trade Center Exhibit Hall from 8:00 AM – 5:00 PM, with authors present from 12:30 – 1:30 PM.

FOR MORE INFORMATION, SEE WWW.IMMUNOLOGY2009.ORG



AAI AWARDS

The AAI Awards Program honors members across the career spectrum.
AAI awards are presented throughout the meeting in special sessions.

Awards Presentations and Lectures

AAI-Dana Foundation Award in Human Immunology Research Presentation and Lecture

Generously supported by the Dana Foundation

Saturday, May 9 ■ 3:15 PM

Chair: Arthur Weiss, HHMI, University of California, San Francisco, AAI President

Award Recipient/Lecturer:

Jacques Banchereau, Baylor Institute for Immunology Research, *Human immunology: a fertile field for basic and patient-oriented discoveries*



AAI-BD Biosciences Investigator Award Presentation and Lecture

Generously supported by BD Biosciences

Sunday, May 10 ■ 2:30 PM

Chair: Arthur Weiss, HHMI, University of California, San Francisco, AAI President

Award Recipient/Lecturer:

Chen Dong, The University of Texas MD Anderson Cancer Center, *Many paths of peripheral T cells*



AAI-Invitrogen Meritorious Career Award Presentation and Lecture

Generously supported by Invitrogen Corporation

Sunday, May 10 ■ 3:30 PM

Chair: Arthur Weiss, HHMI, University of California, San Francisco, AAI President

Award Recipient/Lecturer:

Michael J. Bevan, HHMI, University of Washington, Seattle, *Matching antigen strength in the thymus and periphery*



Awards Presentations at the AAI Business Meeting

Monday, May 11 ■ 12:45 PM

AAI Distinguished Service Award Presentation

Award Recipient:

John G. Monroe, Genentech, Inc.

AAI-Invitrogen Trainee Achievement Awards

Cynthia Chambers Memorial–

eBioscience Junior Faculty Award

Pfizer-Showell Travel Award



Attend the AAI Business Meeting & Awards Presentation!

MONDAY, MAY 11 ■ 12:45 PM

In addition to awards presentations, this session will include the annual report to AAI members on AAI and *The Journal of Immunology* business affairs. Lunch will be provided (no ticket required).

Additional awards to be given in conjunction with IMMUNOLOGY 2009™:

AAI Junior Faculty Travel Grants

Assist young investigators with travel to the AAI Annual Meeting. Selection based on career promise and submission of a first-author abstract to the Annual Meeting.

AAI Trainee Abstract Awards

Awarded to AAI trainee members (students and postdoctoral fellows) whose first-author abstracts are selected for oral presentation in an AAI Block Symposium.

AAI Minority Scientist Travel Awards

Support the participation of under-represented minority scientists at the AAI Annual Meeting; funded by a grant from the National Institute of General Medical Sciences, NIH [FASEB MARC Program: T36-GM08059-26].

For complete information on all AAI Awards, please visit www.aai.org/Awards.

FOR MORE INFORMATION, SEE WWW.IMMUNOLOGY2009.ORG

AAI COMMITTEE-SPONSORED SESSIONS

CLINICAL IMMUNOLOGY COMMITTEE

Scourge of the Mummies: TB Then and Now

SATURDAY, MAY 9, 10:15 AM – 12:15 PM

Chair: **Kathleen E. Sullivan**, Children's Hospital of Philadelphia, Chair, AAI Clinical Immunology Committee

Co-Chair: **Cathryn Nagler**, Massachusetts General Hospital and Harvard Medical School, Co-Chair, AAI Clinical Immunology Committee

Jerald C. Sadoff, Aeras Foundation, *TB vaccine development in modern times*

Joel D. Ernst, NYU School of Medicine, *Dendritic cell traffic and antigen presentation in tuberculosis*

Shabaana A. Khader, Children's Hospital of Pittsburgh, *T cell-mediated immunity to tuberculosis*

Samuel M. Behar, Brigham and Women's Hospital and Harvard Medical School, *Lipid mediators modulate the cellular fate of infected macrophages and regulate innate and adaptive immunity to tuberculosis*

COMMITTEE ON PUBLIC AFFAIRS

Immunology at CDC: Research Opportunities in Public Health

SATURDAY, MAY 9, 12:30 – 2:00 PM

Chair: **William R. Green**, Dartmouth Medical School, Chair, AAI Committee on Public Affairs

Alison C. Mawle, Associate Director for Laboratory Science, National Center for Immunization and Respiratory Diseases, Coordinating Center for Infectious Diseases, Centers for Disease Control and Prevention, *Immunology at CDC: why it matters*

Conrad Quinn, Molecular Pathogenesis and Immunology Team, Meningitis and Vaccine Preventable Diseases Branch, Division of Bacterial Diseases, National Center for Immunization and Respiratory Diseases, Coordinating Center for Infectious Diseases, Centers for Disease Control and Prevention, *Anthrax vaccines—from Pasteur to pasture to PA*

Ellen Kersh, Laboratory Branch, Pre-clinical Evaluation Team, Division of HIV/AIDS Prevention, National Center for HIV, Hepatitis, STD and TB Prevention, Coordinating Center for Infectious Diseases, Centers for Disease Control and Prevention, *Immunological factors impact susceptibility to SHIV in a macaque model of repeated mucosal viral challenge*

This session will surprise you, as you learn about some of the exciting immunological research being conducted at the CDC. Speakers will also describe ongoing collaborative and interagency work, as well as funding opportunities for scientists. A question and answer period will follow the presentations.

Good Science Gone Bad: "Dual Use" Research and How it Affects You

SUNDAY, MAY 10, 12:30 – 2:30 PM

Chair: **William R. Green**, Dartmouth Medical School, Chair, AAI Committee on Public Affairs

Keynote Speaker: **Dennis L. Kasper**, Chair, National Science Advisory Board for Biosecurity (NSABB); William Ellery Channing Professor of Medicine and Professor of Microbiology and Molecular Genetics, Harvard Medical School; Director, Channing Laboratory, and Senior Physician, Brigham and Women's Hospital, *Good research for bad purposes: how to know "dual use" research when you see it, and when you should worry*

David A. Relman, Member, National Science Advisory Board on Biosecurity (NSABB); Professor of Microbiology & Immunology, and of Medicine, Stanford University; Chief of Infectious Diseases, VA Palo Alto Health Care System, *The future life sciences landscape: benefits and risks*

David R. Franz, Co-Chair, National Science Advisory Board on Biosecurity (NSABB) International Working Group; Chief Biological Scientist, Midwest Research Institute (Frederick, Maryland), *Regulating "dual-use" research: if the U.S. does, will the world follow?*

Paul S. Keim, Chair, National Science Advisory Board on Biosecurity (NSABB) Communications Working Group; Director of Pathogen Genomics, The Translational Research Institute (TGen); Director, Center for Microbial Genetics and Genomics, and The Cowden Endowed Chair in Microbiology, Northern Arizona University, Flagstaff Arizona, *The anthrax letter attacks: investigating the researchers, investigating the crime*

BIOTERRORISM! Caused by a rogue scientist or caused, unknowingly, by **you?** Caused by **you** because you didn't know about "dual use research" (research that can be used for both beneficial and nefarious purposes). This session will explore the political and scientific issues surrounding dual use research, its dangers and benefits—including its forensic role in identifying suspects in the 2002 anthrax case—and many of the key concerns about government regulation of such research. A question and answer period will follow the presentations.

EDUCATION COMMITTEE

*Just Added! The NIH Grant Maze: Navigating Old Turns and New Twists

SATURDAY, MAY 9, 10:15 AM – 12:15 PM

See CAREER DEVELOPMENT PROGRAMS section, below

John H. Wallace High School Teachers Workshop: Lessons in Immunology

SATURDAY, MAY 9, 10:15 AM – 12:15 PM

Chair: **Brian A. Cobb**, Case Western Reserve University School of Medicine

The AAI High School Teachers Program brings the excitement of immunology directly to high school students by sending high school science teachers into the laboratories of established immunologists who mentor them in a "hands-on" summer internship. The teachers develop a science project for the classroom based on their summer experience. The teachers present their experiences and projects in this session.

2008–2009 PROGRAM PARTICIPANTS

Teacher: **Mary Haus**, Los Osos High School, Rancho Cucamonga, CA

Mentor: **Roberta R. Pollock**, Department of Biology, Occidental College, Los Angeles, California

Teacher: **Monica Thoun**, Bay Middle College/Fitzharris High School, Delta-Schoolcraft Intermediate School District, Wells, Michigan

Mentor: **Mariana J. Kaplan**, University of Michigan Medical School, Ann Arbor, Michigan

Teacher: **David Mwangi**, East Orange High School, East Orange, New Jersey

Mentor: **Patricia Fitzgerald-Bocarsly**, UMDNJ—New Jersey Medical School, Newark, New Jersey

Teacher: **Kevin Jarigese**, West Mesa High School, Albuquerque, New Mexico

Mentor: **Carolyn Mold**, Department of Molecular Genetics and Microbiology, University of New Mexico, Albuquerque, New Mexico

Teacher: **Rita English**, John F. Kennedy Memorial High School, Iselin, New Jersey

Mentor: **Debra Laskin**, Department of Pharmacology/Toxicology, Rutgers University, Piscataway, New Jersey

Teacher: **Nels Dokken**, John F. Kennedy High School, South Bloomington, Minnesota

Mentor: **Chris Pennell**, Department of Laboratory Medicine & Pathology, University of Minnesota, Minneapolis, Minnesota

EDUCATION COMMITTEE and COMMITTEE ON THE STATUS OF WOMEN

Careers in Science: Lecture and Roundtable Discussion

SATURDAY, MAY 9, 1:30 – 3:30 PM

Chair: **Christine Milcarek**, University of Pittsburgh, Chair, AAI Committee on the Status of Women

Co-Chair: **Bonnie N. Dittel**, BloodCenter of Wisconsin, Blood Research Institute

Speaker: **Phyllis M. Wise**, Provost and Executive Vice President, University of Washington

Learn about career options and successful paths to each in this afternoon session. Following Dr. Wise's lecture, experienced scientists will serve as roundtable discussion leaders and offer one-on-one insight about specific career issues and options important to men and women in science today. Attendance will be limited to the first 300 registrants. Roundtable topics will address career options and issues that challenge success at all career stages.

General

Topics related to the environment you work in or want to work in

- Academic Research
- Biotech and Industry
- Governmental Agencies: CDC/FDA/NIH
- Clinic: clinical and diagnostic immunology, clinician-scientist
- Undergraduate Institutions: teaching, doing research part-time

Transitions

Topics focused on a specific career stage

- Graduate Student to Post-doc: finding a post doc, interviewing
- Post-doc to PI: finding a position, interviewing, negotiating, lab start-up
- New PI: attracting students and post-docs, preparing for tenure
- Mid-Career: developing administrative and management skills/sabbaticals
- Changing Careers: moving from academia to industry, or vice versa

Special

Topics for unique situations

- Career and Family: time management/family leave/professional couples
- Integrity and Ethics: dealing with controversy, discrimination in the workplace
- Alternative Careers: science journalism, patent law
- The Scientist's Role in Public Policy
- Time Management

Registration, \$10 fee required; dessert buffet and coffee included

MINORITY AFFAIRS COMMITTEE

Careers and Networking Roundtable

SUNDAY, MAY 10, 11:00 AM – 12:30 PM

Chair: **Randy R. Brutkiewicz**, Indiana University School of Medicine, Chair, AAI Minority Affairs Committee

Don't miss this opportunity to meet one-on-one with senior minority immunologists to hear how they have handled the career challenges you now face. Learn what they believe will work for you today.

Registration, \$10 fee required; box lunch included

Minority Affairs Committee Guest Lecture

MONDAY, MAY 11, 11:30 AM – 12:30 PM

Chair: **Randy R. Brutkiewicz**, Indiana University School of Medicine, Chair, AAI Minority Affairs Committee

Emil R. Unanue, Washington University (St. Louis) School of Medicine, *The mysteries of peptide selection by the class II MHC molecules*

PUBLICATIONS COMMITTEE

Course: Excellence in Scientific Writing

FRIDAY, MAY 8, 12:00 – 4:00 PM

Improve the quality of your publications and grant applications. This interactive half-day workshop will, through examples and class participation, focus on the essentials of effective writing and strategies for clear communication. Course is limited to 100 attendees.

Registration, \$100 fee required

Scientific Publishing: Dos and Don'ts for Authors and Reviewers

SUNDAY, MAY 10, 12:30 – 2:30 PM

Chair: **Robert D. Schreiber**, Washington University (St. Louis) School of Medicine, Chair, AAI Publications Committee

Pamela J. Fink, University of Washington School of Medicine, *Dos and don'ts when writing a scientific manuscript*

JoAnne L. Flynn, University of Pittsburgh School of Medicine, *Essentials for becoming a valued reviewer*

Pamela A. Shaw, NIAID, NIH, *The appropriate use of statistics in the biological sciences*

Jeremy M. Boss, Emory University School of Medicine, *What do you mean I already published it? Ethics in scientific publishing*

NIH INSTITUTE-SPONSORED SYMPOSIA

NATIONAL CANCER INSTITUTE (NCI) SYMPOSIUM:

The Role of NKG2D in Immune Responses to Tumors

FRIDAY, MAY 8, 2:00 – 4:00 PM

Chair: **David H. Raulet**, University of California, Berkeley

Co-Chair: **T. Kevin Howcroft**, Division of Cancer Biology and Cancer Immunology, NCI, NIH

Thomas Spies, Fred Hutchinson Cancer Research Center, *NKG2D-mediated suppression of tumor immunity*

David H. Raulet, University of California, Berkeley, *Regulation of NKG2D ligands and the role of NKG2D in tumor surveillance*

Lewis L. Lanier, University of California, San Francisco, *NKG2D-mediated immune responses*

Glenn Dranoff, Dana-Farber Cancer Institute, *Targeting the NKG2D pathway in cancer therapy*

NATIONAL INSTITUTE ON AGING (NIA) SYMPOSIUM:

How Aging Impacts Vaccine Efficacy

SUNDAY, MAY 10, 8:00 – 10:00 AM

Chair: **Rebecca A. Fuldner**, NIA, NIH

Co-Chair: **Janko Nikolich-Zugich**, University of Arizona College of Medicine and Arizona Center on Aging

Donna M. Murasko, Drexel University, *Immune response to influenza in the aged: a story of mice and men*

Jack Gorski, BloodCenter of Wisconsin, *The aging of cytotoxic T cell memory to influenza*

Janko Nikolich-Zugich, University of Arizona College of Medicine and Arizona Center on Aging, *How the frail fail: immune response to acute and chronic viral infections in old age*

Joseph Lustgarten, Mayo Clinic, *Implications of aging and self tolerance for the development of tumor vaccines in the elderly*

NATIONAL INSTITUTE OF ALLERGY AND INFECTIOUS DISEASES (NIAID)

Contemporary Topics in Immunology

FRIDAY, MAY 8, 2:00 – 4:00 PM

Chairs: **Alison Deckhut Augustine**, NIAID, NIH; **John G. Monroe**, Genentech, Inc., AAI Program Chair

Michel Gilliet, University of Texas MD Anderson Cancer Center, *Role of antimicrobial peptides in pDC-driven automimmunity*

Hidde Ploegh, Whitehead Institute, Massachusetts Institute of Technology, *TLR9 requires proteolytic conversion for its activity*

Julie Magarian Blander, Mount Sinai School of Medicine, *Innate controls of TH17 and Treg cell differentiation*

Alan Aderem, Institute for Systems Biology, *A systems approach to dissecting immunity*

Working B Cells: How to Make Antibodies that Protect for Anti-HIV Vaccines

MONDAY, MAY 11, 10:15 AM – 12:15 PM

Chairs: **Helen Quill**, DAIT, NIAID, NIH; **Tony Conley**, DAIT, NIAID, NIH

Harry W. Schroeder, University of Alabama at Birmingham, *Regulation of the primary antibody CDR-H3 repertoire and epitope selection in immunoglobulin responses to HIV*

Leonidas A. Stamatatos, Seattle Biomedical Research Institution, *Prevalence and epitope specificities of broadly-neutralizing antibodies generated during HIV-1 infection: how can we elicit them by vaccination?*

Abraham Pinter, UMDNJ-New Jersey Medical School, *Targets for HIV-1 neutralization—limitations and new approaches*

Ignacio E. Sanz, University of Rochester, *The cellular basis of protective anti-HIV antibody responses*

Scientific progress in B cell biology relevant to the production of broadly neutralizing anti-HIV-1 antibodies for the development of prophylactic vaccines: Scientific presentations of recent advances together with panel discussion of the unusual immunological issues involved and potential solutions to roadblocks. Scientific presentation followed by a panel discussion.

GUEST SOCIETY SYMPOSIA

AAI is joined by the following guest societies presenting two-hour symposia in special disciplines.

British Society for Immunology (BSI)—AAI Special Symposium

Immune Responses to Distressed Self

MONDAY, MAY 11, 12:30 – 2:30 PM

Chairs: **John G. Monroe**, Genentech, Inc., AAI Program Chair; **Adrian H. Hayday**, King's College London School of Medicine, BSI Secretariat

Vincenzo Cerundolo, University of Oxford, *Invariant NKT cells: effect on DC, B cells and myeloid-derived suppressor cells*

Yueh-Hsiu Chien, Stanford University, *From (the lack of) thymic selection to IL-17 production: why $\gamma\delta$ T cells are indispensable*

Wayne Yokoyama, HHMI, Washington University (St. Louis) School of Medicine, *NK cell tolerance: licensing and other mechanisms*

Benjamin E. Willcox, University of Birmingham, *Immune display of the cancer phosphoproteome: presentation of transformed self*

American Association of Veterinary Immunologists (AAVI) and AAI Veterinary Immunology Committee Joint Symposium

Comparative Biology of Non-Classical MHC Class I Molecules

SUNDAY, MAY 10, 12:30 – 2:30 PM

Chairs: **Christopher J. Davies**, Utah State University; **Mark A. Jutila**, Montana State University, AAI Veterinary Immunology Committee Chair

Joan S. Hunt, University of Kansas Medical Center, *Similar and dissimilar features of human and baboon MHC class Ib antigens in placentas*

Thaddeus G. Golos, University of Wisconsin, *Towards in vivo models to define the functions of primate MHC class I molecules*

Christopher J. Davies, Utah State University, *Placental expression patterns of cattle non-classical MHC class I genes and proteins*

Laurent Abi-Rached, Stanford University, *Species-specific evolution of NK cell receptors for MHC class I*

American Society for Blood and Marrow Transplantation (ASBMT)

Allogeneic Hematopoietic Stem Cell Transplantation: Immunotherapy of Cancer

SATURDAY, MAY 9, 8:00 – 10:00 AM

Chair: **Marcel R. M. van den Brink**, Memorial Sloan-Kettering Cancer Center

Bruce R. Blazar, University of Minnesota, *Graft-versus-host disease: pathophysiology and prevention*

Jerome Ritz, Dana-Farber Cancer Institute, *T and B cell responses to human minor histocompatibility antigens*

Marcel R. M. van den Brink, Memorial Sloan-Kettering Cancer Center, *Adoptive therapy with T cell precursors*

Stanley R. Riddell, Fred Hutchinson Cancer Research Center, *Establishing persistent antitumor immunity after hematopoietic stem cell transplant*

American Society of Bone and Mineral Research (ASBMR)

Osteoimmunology: Interactions of Bone and the Immune System

SATURDAY, MAY 9, 2:45 – 4:45 PM

Chairs: **Mark C. Horowitz**, Yale University School of Medicine; **Joseph A. Lorenzo**, University of Connecticut Health Center

Joseph A. Lorenzo, University of Connecticut Health Center, *Introduction to osteoimmunology*

Mark C. Horowitz, Yale University School of Medicine, *Interactions of bone and fat with the marrow*

Amy J. Wagers, Joslin Diabetes Center, *Regulation of stem cell function by osteolineage niche cells*

Antonios O. Aliprantis, Harvard School of Public Health, *NFATc1 uncouples osteoclastogenesis from inflammation in a mouse model of cherubism*

American Society of Transplantation (AST)

Barriers to Transplant Tolerance

SATURDAY, MAY 9, 12:30 – 2:30 PM

Chairs: **Sheri M. Krams**, Stanford University School of Medicine; **Robert L. Fairchild**, Cleveland Clinic Foundation

Vicki Seyfert-Margolis, Immune Tolerance Network, UCSF, *Assays to measure transplant tolerance*

Olivia M. Martinez, Stanford University, *Mechanisms of tolerance induction*

Leslie S. Kean, Emory University, *Beyond rodents: achieving tolerance in primates*

Samuel Strober, Stanford University, *Achieving tolerance safely in humans*

Association of Medical Laboratory Immunologists (AMLI)

Human Immunology: Primary Immunodeficiencies as Models for Understanding Lymphocyte Development and Differentiation

SUNDAY, MAY 10, 8:00 – 10:00 AM

Chairs: **Ronald J. Harbeck**, National Jewish Health; **Roshini S. Abraham**, Mayo Clinic

Pamela L. Schwartzberg, NHGRI, NIH, *Lessons from mouse models of primary immunodeficiencies*

Jack J. H. Bleesing, Cincinnati Children's Hospital Medical Center, *Autoimmune lymphoproliferative syndromes: models for lymphocyte homeostasis and regulation*

Troy R. Torgerson, University of Washington and Seattle Children's Research Institute, *Immune dysregulation and primary immunodeficiencies: Foxp3 and Treg development*

Jordan Orange, University of Pennsylvania School of Medicine and The Children's Hospital of Philadelphia, *The NK immunological synapse and NK-related immune deficiencies*

Canadian Society for Immunology (CSI)

Innate Regulation of Acquired Immunity

SUNDAY, MAY 10, 12:30 – 2:30 PM

Chairs: **Jean S. Marshall**, Dalhousie University; **Kent T. HayGlass**, University of Manitoba

Jennifer L. Gommerman, University of Toronto, *Interactions between stromal cells, dendritic cells, and lymphotoxin-expressing lymphocytes tune the adaptive immune response*

Kent T. HayGlass, University of Manitoba, *Linkages between TLR/NLR responsiveness and human allergic disease*

Dana J. Philpott, University of Toronto, *Nod proteins in innate and adaptive immunity*

Jean S. Marshall, Dalhousie University, *Mast cell mobilization of dendritic cells*

Chinese Society of Immunology (ChSI)

Immune Regulation: From Basic to Clinics

SATURDAY, MAY 9, 10:15 AM – 12:15 PM

Chairs: **Xuetao Cao**, Institute of Immunology, Second Military Medical University, Shanghai; **Olivera (Olja) J. Finn**, University of Pittsburgh School of Medicine

Gang Pei, Institute of Biological Sciences, Chinese Academy of Sciences, Shanghai, *Beta-arrestin 2 and negative regulation of innate and adaptive immune response*

Sidong Xiong, Fudan University School of Medicine, Shanghai, *DNA for de novo autoantigen: when DNA could trigger autoimmunity*

Xiaoming Gao, Peking University Health Science Center, Beijing, *Specificity and function of regulatory anti-T-cell Abs induced by T cell vaccination*

Hong Tang, Center for Immunity and Infection, Chinese Academy of Sciences, Beijing, *Adaptive immune cells temper initial innate responses*

Fusheng Wang, Beijing 302 Hospital, Beijing, *Both regulatory T cells and inhibitory receptors impair CD8⁺ T cell responses in chronic HBV infection*

International Society for Interferon and Cytokine Research (ISICR)

Cytokines and Interferons in the Immune Response

MONDAY, MAY 11, 10:15 AM – 12:15 PM

Chair: **Robert M. Friedman**, USUHS

Patricia Fitzgerald-Bocarsly, UMDNJ, *Interferons and plasmacytoid dendritic cells*

Grant Gallagher, HUMIGEN LLC, *Modulation of the Th2 response by IL-19 and interferon lambda*

Thomas A. Wynn, NIAID, NIH, *Dissecting alternative and classical activation: the role of macrophage subsets in the pathogenesis of Th2-mediated disease*

Kendall A. Smith, Weill Medical College of Cornell University, *How mutations in cytokine signaling pathways can lead to autoimmunity and leukemia*

International Society of Neuroimmunology (ISNI)

B Cells in Neuroimmunologic Disease

SATURDAY, MAY 9, 2:45 – 4:45 PM

Chairs: **Anne H. Cross**, Washington University (St. Louis) School of Medicine; **Bonnie N. Dittel**, BloodCenter of Wisconsin, Blood Research Institute

Bonnie N. Dittel, BloodCenter of Wisconsin, Blood Research Institute, *Mechanisms utilized by B cells to regulate autoimmune inflammation in the CNS*

Scott S. Zamvil, University of California, San Francisco, *Mechanisms of B cell involvement in CNS autoimmunity*

Kevin C. O'Connor, Harvard Medical School, *The specificity of B cells in the CNS of multiple sclerosis patients*

Anne H. Cross, Washington University (St. Louis) School of Medicine, *B cell depletion in the therapy of relapsing multiple sclerosis*

Singaporean Society for Immunology (SSI)

New Initiatives in Asia

SUNDAY, MAY 10, 10:15 AM – 12:15 PM

Chairs: **David Michael Kemeny**, National University of Singapore; **Paola Ricciardi Castagnoli**, Singapore Immunology Network, A*STAR

David Michael Kemeny, National University of Singapore, *CD8⁺ T cells induce dendritic cell IL-12 in vitro and in vivo via CD40-dependent and independent pathways*

Paola Ricciardi Castagnoli, Singapore Immunology Network, A*STAR, *Dendritic cells regulate immune responses via the NFAT signaling pathway*

S. K. Alex Law, Nanyang Technological University, *Lessons from mutations of LAD patients and the structure and function of integrins*

Antonio Bertoletti, Singapore Institute for Clinical Sciences, A*STAR, *Reconstitution of virus-specific immunity through TCR transfer in chronic hepatitis B*

Paul A. MacAry, National University of Singapore, *Targeting Epstein-Barr virus-associated tumors using TCR-like monoclonal antibodies*

Society for Glycobiology

Glycans in Immune Development, Recognition, and Function

SATURDAY, MAY 9, 12:30 – 2:30 PM

Chairs: **Linda G. Baum**, UCLA School of Medicine; **Mitchell Kronenberg**, La Jolla Institute for Allergy and Immunology

Mitchell Kronenberg, La Jolla Institute for Allergy and Immunology, *Innate-like recognition of microbial glycolipids by natural killer T cells*

Yvette van Kooyk, Vrije Universiteit Medical Center, Amsterdam, *Innate and adaptive dendritic cell responses upon glycan recognition*

James C. Paulson, The Scripps Research Institute, *Targeting B cells with ligands of CD22*

Linda G. Baum, UCLA School of Medicine, *Galectin-glycan lattices on the plasma membrane regulate T cell function*

Society for Leukocyte Biology (SLB)

Macrophage Meets Microbe: Activation, Inflammation, Autophagy, and Cell Death

SUNDAY, MAY 10, 2:45 – 4:45 PM

Chairs: Michele S. Swanson, University of Michigan Medical School;
Brad T. Cookson, University of Washington

Thomas R. Hawn, University of Washington, *TLR activation in combating infection*

Russell E. Vance, University of California, Berkeley, *Cytosolic immunosurveillance of Legionella pneumophila*

Michele S. Swanson, University of Michigan Medical School, *Autophagy: a barrier to cytosolic infection*

Brad T. Cookson, University of Washington, *Pyroptosis, a host-healthy alternative to apoptosis*

Society for Mucosal Immunology (SMI)

Enemies at the Gate: Control of Microbes at Mucosal Surfaces

SATURDAY, MAY 9, 2:45 – 4:45 PM

Chairs: Leo Lefrançois, University of Connecticut Health Center;
Charlotte S. Kaetzel, University of Kentucky College of Medicine

Lora V. Hooper, HHMI, University of Texas Southwestern Medical School, *Innate immune responses to commensal bacteria at the gut epithelial surface*

Stephen J. McSorley, University of Minnesota Medical Center, *Initiation of a CD4⁺ T cell response to Salmonella infection*

David Artis, University of Pennsylvania School of Medicine, *Innate immune cells in the recognition and response to helminth parasites*

Linda S. Cauley, University of Connecticut Health Center, *CD69 and CD103 cooperatively regulate CD8⁺ T cell responses in the lungs after influenza infection*

Dennis W. Metzger, Albany Medical College, *The role of mucosal immunity in viral-bacterial synergistic lung infections*

Society for Natural Immunity (SNI)

NK Cell Development and Tolerance: Implications for Immunotherapy

SUNDAY, MAY 10, 2:45 – 4:45 PM

Chairs: Peter Parham, Stanford University; Michael A. Caligiuri, Ohio State University

Fumio Takei, University of British Columbia, *NK cell progenitors in various tissues suggest multiple pathways of NK cell development*

Michael A. Caligiuri, Ohio State University, *NK cell development*

Peter Parham, Stanford University, *NK-cell immunogenetics: the art of fine tuning NK cell responses*

Jeffrey S. Miller, University of Minnesota, *NK cell therapy in cancer and transplantation*

CAREER DEVELOPMENT PROGRAMS

AAI Education Committee Special Session

The NIH Grant Maze: Navigating Old Turns and New Twists

SATURDAY, MAY 9, 10:30 AM – 12:15 PM

Chair: Barry P. Sleckman, Washington University (St. Louis) School of Medicine, AAI Education Committee

Barry P. Sleckman, Associate Professor, Washington University (St. Louis) School of Medicine, *Introduction*

Cheryl A. Kitt, Deputy Director, Center for Scientific Review, NIH, *NIH grant rules, obligations and changes every PI should know: an overview from CSR*

Gail A. Bishop, Professor, University of Iowa, Chair, TTT Study Section, *Notes from a study section chair: what it takes to rise to the top*

Richard A. Pelroy, Program Director, NCI, *The role of NIH institute program officials in the grant process*

Education Committee and National Postdoctoral Association

Special Session: The Secrets to a Successful Postdoctoral Experience

MONDAY, MAY 11, 10:30 AM – 12:00 PM

Chair: Kira Gantt, AAI

Karen Peterson, Director of the Office of Scientific Career Development, Fred Hutchinson Cancer Research Center, *The secrets to a successful postdoctoral experience*

Education Committee and Committee on the Status of Women

Careers in Science: Lecture and Roundtable Discussion

SATURDAY, MAY 9, 1:30 – 3:30 PM

Chairs: Christine Milcarek, University of Pittsburgh, Chair, AAI Committee on the Status of Women; Bonnie N. Dittel, BloodCenter of Wisconsin, Blood Research Institute

Speaker: Phyllis M. Wise, Provost and Executive Vice President, University of Washington

Learn about career options and successful paths to each in this afternoon session. Following Dr. Wise's lecture, experienced scientists will serve as roundtable discussion leaders and offer one-on-one insight about specific career issues and options important to men and women in science today. Attendance will be limited to the first 300 registrants. **For the complete list of roundtable topics, visit www.IMMUNOLOGY2009.org/index.htm#CareerRoundtable.**

Registration, \$10 fee required; dessert buffet and coffee included

Minority Affairs Committee

Careers and Networking Roundtable

SUNDAY, MAY 10, 11:00 AM – 12:30 PM

Chair: Randy R. Brutkiewicz, Indiana University School of Medicine, Chair, AAI Minority Affairs Committee

Don't miss this opportunity to meet one-on-one with senior minority immunologists to hear how they have handled the career challenges you now face. Learn what they believe will work for you today.

Registration, \$10 fee required; box lunch included

Publications Committee

Course: Excellence in Scientific Writing

FRIDAY, MAY 8, 12:00 – 4:00 PM

Improve the quality of your publications and grant applications. This interactive half-day workshop will, through examples and class participation, focus on the essentials of effective writing and strategies for clear communication. Course is limited to 100 attendees.

Registration, \$100 fee required

Scientific Publishing: Dos and Don'ts for Authors and Reviewers

SUNDAY, MAY 10, 12:30-2:30 PM

Chair: Robert D. Schreiber, Washington University (St. Louis) School of Medicine, Chair, AAI Publications Committee

Pamela J. Fink, University of Washington School of Medicine, *Dos and don'ts when writing a scientific manuscript*

JoAnne L. Flynn, University of Pittsburgh School of Medicine, *Essentials for becoming a valued reviewer*

Pamela A. Shaw, NIAID, NIH, *The appropriate use of statistics in the biological sciences*

Jeremy M. Boss, Emory University School of Medicine, *What do you mean I already published it? Ethics in scientific publishing*



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Course Director: Terri M. Laufer, M.D., University of Pennsylvania School of Medicine

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July 26-31, 2009

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Course Director: Kristin A. Hogquist, Ph.D., University of Minnesota Center for Immunology
Co-Course Director: Yoji Shimizu, Ph.D., University of Minnesota Center for Immunology

FOR MORE INFORMATION VISIT: www.aai.org/Courses.htm

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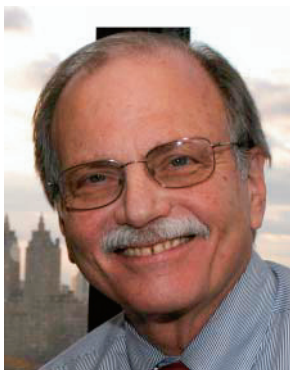
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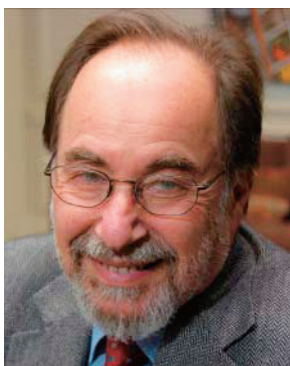
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of immunology*

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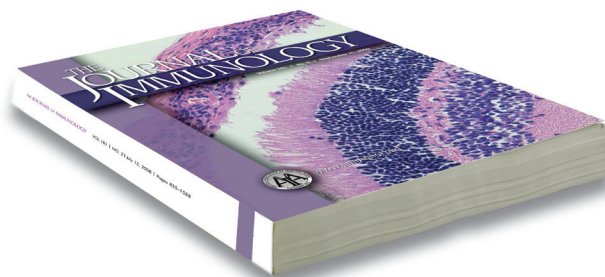
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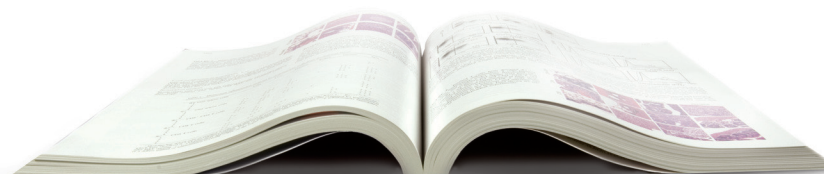
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