

CALL FOR ABSTRACTS AND PROGRAM INFORMATION

EB

experimental biology



April 24 – 28, 2010
Anaheim Convention Center
Anaheim, California



Photos Courtesy of AOCVCB

Experimental
Biology

2010[®]

sponsors:

American Association of Anatomists (AAA)

The American Physiological Society (APS)

American Society for Biochemistry and Molecular Biology (ASBMB)

American Society for Investigative Pathology (ASIP)

American Society for Nutrition (ASN)

American Society for Pharmacology and Experimental Therapeutics (ASPET)

Abstract Deadline:
Wednesday, November 4, 2009

www.experimentalbiology.org

2010

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The complete Call for Abstracts and general information is available at www.experimentalbiology.org

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The Experimental Biology Management Office is located at 9650 Rockville Pike, Bethesda, MD 20814-3998
Tel: 301-634-7010; Fax: 301-634-7014; Email: eb@faseb.org
www.experimentalbiology.org

**Register before Thursday, October 1
to be entered into a prize drawing.**

All paid registrations **received** by Thursday, October 1 will be entered into our prize drawing.
One winner will be selected at random by each sponsoring society. Prizes vary by society.
Visit our website www.experimentalbiology.org for more information.

EB

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SPONSORING ORGANIZATIONS

American Association of Anatomists (AAA)

The American Physiological Society (APS)

American Society for Biochemistry and Molecular Biology (ASBMB)

American Society for Investigative Pathology (ASIP)

American Society for Nutrition (ASN)

American Society for Pharmacology and Experimental Therapeutics (ASPET)



American Society for Nutrition
Excellence in Nutrition Research and Practice
www.nutrition.org



GUEST SOCIETIES:

APS

- American Federation for Medical Research (AFMR)
- Association of Latin American Physiological Societies (ALACF)
- The Biomedical Engineering Society (BMES)
- The Microcirculatory Society (MCS)
- Society for Experimental Biology and Medicine (SEBM)

ASBMB

- Division of Biological Chemistry
- American Chemical Society

ASIP

- American College of Veterinary Pathologists (ACVP)
- American Society for Matrix Biology (ASMB)
- International Society for Analytical and Molecular Morphology (ISAMM)

- International Society for Biological and Environmental Repositories (ISBER)
- Pulmonary Pathology Society (PPS)
- Society for Cardiovascular Pathology (SCVP)
- Società Italiana di Patologia/Italian Pathology Society (SIP)

ASN

- ILSI North America
- American Heart Association (AHA) - Nutrition, Physical, Activity and Metabolism (NPAM) Council
- American Dietetic Association (ADA)

ASPET

- Behavioral Pharmacology Society (BPS)



Experimental Biology is an annual meeting comprised of nearly 13,000 scientists and exhibitors representing six sponsoring societies and 18 guest societies.

General fields of study include anatomy, physiology, biochemistry, molecular biology, pathology, nutrition, pharmacology and immunology. EB 2010 is open to all members of the sponsoring and guest societies and nonmembers with interest in research and life sciences. The majority of scientists represent university and academic institutions as well as government agencies, nonprofit organizations and private corporations.

This multidisciplinary, scientific meeting features plenary and award lectures, pre-meeting workshops, oral and poster sessions, on-site career services and an exhibit floor with an array of equipment, supplies and publications required for research labs and experimental study.



EXPERIMENTAL BIOLOGY 2010 OFFERS:

- Access to 6 collective society meetings in one location with one registration fee
- More than 50 concurrent scientific sessions open to all attendees spanning the scientific disciplines of the sponsoring societies
- Over 400 exhibit booths representing nearly 300 companies
- 4 days of poster sessions with over 5,000 poster displays and author presentations
- Over 90 award programs, of more than \$700,000, in travel funding opportunities and poster competitions (awards vary by society)
- Over 65 countries represented annually at the meeting creating a diverse audience
- CME credits available (ASIP sessions only)
- Extensive career development opportunities for students and postdoctoral fellows
- Same registration fees as 2009

MARK YOUR CALENDAR

Experimental Biology 2010 - Today's Research: Tomorrow's Health
April 24 - 28, 2010
Anaheim Convention Center
800 West Katella Avenue
Anaheim, CA 92802

Scientific Sessions: Saturday, April 24 – Wednesday, April 28
Poster Sessions: Sunday, April 25 – Wednesday, April 28
Exhibits: Sunday, April 25 – Tuesday, April 27

Contact us at:

EB2010
9650 Rockville Pike
Bethesda, MD 20814-3998

(T) 301-634-7010
(F) 301-634-7014
or 301-634-7008
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www.experimentalbiology.org

CAREER DEVELOPMENT SESSIONS

Visit www.experimentalbiology.org for further information.

ANATOMY

- Anatomy Teaching in an Integrated Curriculum
- Famous and Outstanding Anatomy Professors I Have Known or with Whom I Have Taught
- The Millennial Student: What We Should Know
- Neurophobia to Neurophilia: Teaching Basic Neuroscience as Foundational to Clerkships
- The SPIRIT of Creating Fundable Proposals: Preparing SBIR/STTR, Program, Instrument, Research, Infrastructure and Training Grants
- Teaching Innovations in Anatomy
- Workshop: Getting Published in the Biomedical Sciences

PHYSIOLOGY

- Productive Translational Research: Tools for Connecting Research Cultures and Managing Conflict
Deborah Zucker
- Science Beyond the Laboratory: From Grad School through Retirement
Gina Schatteman
- Government Careers in Physiology Revealed
Kathy Ryan and Kamal Rahmouni
- Helping Students Put the Pieces Together: Fostering Integrative Learning of Physiology
William H. Cliff
- Publishing 101: Dos and Don'ts of Publishing in APS Journals
Kim E. Barrett and Rita Scheman
- Publish, Not Perish: How to Survive the Peer Review Process
Jessica A. Clark and Sender Lkhagvadorj
- A Primer for the New PI: How to Herd Cats AND Keep Your Boss Happy
Francisco H. Andrade and Angela J. Grippo

BIOCHEMISTRY

- 14th Annual Undergraduate Student Poster Competition
- The Biochemistry and Molecular Biology Career Spectrum
- Career Workshop for Undergraduates
- Complementary Skills: What Are Employers Looking For?
- Graduate Student and Postdoctoral Professional Development Symposium
- How to Publish in the *JBC*
- Mentoring
- Minority Scientists Welcome Reception
- Saying What You Mean: Tips on Grant Writing
- Women Scientists Panel and Networking Reception

PATHOLOGY

- 10th Annual Career Development Program and Lunch: Mentoring the Mentors
- Workshop: Non-traditional Career Opportunities in Pathology

NUTRITION

- Clinical Emerging Leaders Award Competition
- Graduate Student Research Award Competition
- International Student Prize Competition
- Student Interest Group Special Session: Who is Responsible for Nutrition in the U.S.?

PHARMACOLOGY

- Graduate Student-Postdoctoral Colloquium: Leadership: Skills, Styles and Self Awareness
Suzanne B. Bausch and Meena Sridharan
- Diversity Committee Workshop: Traditional and Alternative Career Paths in Rough Economic Times
Martha Davila-Garcia

MARC & PROFESSIONAL DEVELOPMENT PROGRAMS

- Social Media & Career Development for Life Scientists
- Alternate Careers: The Path Less Traveled
- Interviewing Tips: Winning that Next Job
- Job Opportunities in the Drug Development Process
- Beyond the Bench...Preparing for Your Career Transition in the Life Sciences
- The industrial Hiring Process: Learn the Nuances, Get the Offer
- Postdocs: What Should You be Looking For and How to Find Them
- CV=Resume
- The Job Talk
- Ph.D. Negotiation Skills and Strategies: How to Get What You Want and Need
- The Academic Job Search in the Life Sciences: Part 1 – Understanding the Search Process From the Perspective of Search Committees and Find Job Announcements
- The Academic Job Search in the Life Sciences: Part 2 – Creating Your Written Application Materials: CVs, Cover Letters, Teaching Portfolios, Etc.
- Professional Development for Ph.D.s
- Fundamentals for Managing the Postdoctoral Experience
- Annual Strategic Planning Tips for Junior Faculty and Postdocs
- Networking: A Required Life Skill
- Get Up With Something On Your Mind
- Making the Case for Graduate School
- Goal Setting, Prioritizing, Time Management
- Leadership Principles for Today's Professional
- How to Design and Deliver a Dynamic Research Talk
- Tips for Formatting Your CV or Resume in Microsoft Word
- Documenting Your Teaching: Creating a Statement of Teaching Philosophy for the Academic Job Search
- IDP
- Job Hunting in the Biotech Industry
- Launching Your Academic Job Search
- Ten Ways to Get Lucky in the Job Search
- Military Scientists: Military and Civilian Careers in the Army
- Handshakes, Eye Contact, Small Talk: How to Build Your Professional Network
- Getting the Industry Job: The Tailored Resume/CV, The Perfect Cover Letter

NIH SEMINARS

- NIH Career Development (K) Awards
- Formula for Grant Success: Part 1 – Scientific Peer Review (Faculty/Postdoctorates/Graduate Students)
- Formula for Grant Success: Part II – Grant Writing for Success (Faculty/Postdoctorates/Graduate Students)

EDUCATION-RELATED SESSIONS

Visit www.experimentalbiology.org for further information.

ANATOMY

- Anatomy Education Breakfast Roundtables
- Anatomy Teaching in an Integrated Curriculum
- Master Class: The Problem with Pain
- The Millennial Student: What We Should Know
- Neurophobia to Neurophilia: Teaching Basic Neuroscience as Foundational to Clerkships
- Refresher Course: Surface Anatomy – The Foundation of Physical Assessment
- Regeneration of Nerve Fibers in the Central Nervous System
- Teaching Innovations in Anatomy

PHYSIOLOGY

- Computational Modeling and Simulation as a Tool for Studying Physiological Processes
- Microfluidics and Nanophotonics
- Refresher Course in Cardiovascular Physiology
- Claude Bernard Distinguished Lectureship of the APS Teaching of Physiology Section
- Helping Students Put the Pieces Together: Fostering Integrative Learning of Physiology
- Focus on the Big Picture: Integration of Undergraduate and Medical Curricula
- Productive Translational Research: Tools for Connecting Research Cultures and Managing Conflict

BIOCHEMISTRY

- ASBMB Award for Exemplary Contributions to Education Lecture
- Classroom of the Future I: Models for Multidisciplinary Training
- Classroom of the Future II: Professional Training for B.S. Students
- Undergraduate SMART Teams

NUTRITION

- Graduate Student Breakfast and Student Interest Group Planning Session
- Media Session
- Education Forum
- NBME/VSML E Item Writing Workshop

PHARMACOLOGY

- Applying Web 2.0 Technologies in Teaching Pharmacology: Developing the Toolbox
- Introduction of Drug Safety (Pharmacovigilance) Into Curricula
- Pharmacology Education Division Symposium
- 2010 Teaching Institute: Simulation in Pharmacology Education: Going Beyond Mannequins

EB SPECIAL JOINT LECTURE

- The Scientific Foundations for Future Physicians Report and Its Implications for Medical and Pre-Medical Education

MARC & PROFESSIONAL DEVELOPMENT PROGRAMS

- Fundamentals for Managing the Postdoctoral Experience
- Annual Strategic Planning Tips for Junior Faculty and Postdocs
- Networking: A Required Life Skill
- Get Up With Something on Your Mind: Strategic Thinking Tips for Achieving Academic and Career Success
- Making the Case for Graduate School
- Goal Setting, Prioritizing, Time Management
- Leadership Principles for Today's Professional

CONTINUING MEDICAL EDUCATION (CME)

This activity has been planned and implemented in accordance with the Essential Areas and Policies of the Accreditation Council for Continuing Medical Education (ACCME) through the Federation of American Societies for Experimental Biology (FASEB) and the American Society for Investigative Pathology (ASIP) only. FASEB is accredited by the ACCME to provide continuing medical education for physicians. The Federation designates this educational activity for a maximum of 36 *AMA PRA Category 1 Credit(s)*[™].

CME application forms will be available online beginning April 24, 2010. There is a \$45 application fee, payable upon submission of the form.

Meeting Objective/Target Audience

The objective of this meeting is to provide a forum for the exchange of new research by scientists and investigators. At the completion of this meeting, participants should be able to:

- 1) discuss the research underway and/or the current topics relevant to their areas of interest in pathology;
- 2) demonstrate a gained level of insight into the methods being used by researchers and practitioners in this field; and
- 3) describe a personal exposure to several stimulating areas of inquiry with speakers in related areas. This meeting is targeted to clinical practitioners, research scientists, and medical education professionals.

SOCIETY AWARDS AND TRAVEL FUNDING OPPORTUNITIES

ANATOMY: Visit www.anatomy.org

Education Research Platform Presentation Award New!	11/04/09
Graduate Student Poster Presentation Award	11/04/09
Langman Graduate Student Platform Presentation Award	11/04/09
Postdoctoral Fellow Platform Presentation Award	11/04/09
Postdoctoral Fellow Poster Presentation Award	11/04/09
Student/Postdoctoral Fellow Education Research Poster Presentation Award	11/04/09
Student/Postdoctoral Travel Award	11/04/09
Undergraduate Student Poster Presentation Award	11/04/09
Young Faculty Travel Award	11/04/09

PHYSIOLOGY: Visit www.the-aps.org/meetings/eb10/awards

APS Arthur C. Guyton Educator of the Year Award sponsored by Elsevier [W.B. Saunders Company]	12/04/09
APS Cardiovascular Section 2010 Berne Distinguished Lectureship	12/15/09
APS Cardiovascular Section 2010 Carl J. Wiggers Award	12/15/09
APS Cardiovascular Section New Investigator Award	11/11/09
APS Cardiovascular Section Research Recognition Awards	11/11/09
APS Cardiovascular Section Clinical Science Young Investigator Award Sponsored by Portland Press	11/11/09
APS Carl W. Gottschalk Distinguished Lectureship of the APS Renal Section	4/16/10
APS Caroline tum Suden/Frances A. Hellebrandt Professional Opportunity Award	11/04/09
APS Cell & Molecular Physiology Section New Investigator Award	1/15/10
APS Cell & Molecular Physiology Section Research Recognition Award	1/15/10
APS Cell & Molecular Physiology Section Robert Gunn Student Award	1/15/10
APS Central Nervous System New Investigator Award	11/04/09
APS Central Nervous System Research Recognition Award	11/04/09
APS Central Nervous System Van Harreveld Award	11/04/09
APS Comparative & Evolutionary Physiology New Investigator Award	12/03/09
APS Comparative & Evolutionary Physiology Research Recognition Award	12/03/09
APS Comparative & Evolutionary Physiology Scholander Award	5/10/10
APS Comparative & Evolutionary Physiology Travel Award sponsored by Novo Nordisk Foundation	12/03/09
APS David S. Bruce Awards for Excellence in Undergraduate Research	1/11/10
APS Endocrinology & Metabolism Section New Investigator Award	11/12/09
APS Endocrinology & Metabolism Section Research Recognition Award	11/12/09
APS Environmental & Exercise Physiology Section 2009 Edward F. Adolph Distinguished Lectureship	3/01/09
APS Environmental & Exercise Physiology Section Gatorade Beginning Investigator Award	11/05/09
APS Environmental & Exercise Physiology Section Gatorade Predoctoral Investigator Award	11/05/09
APS Environmental & Exercise Physiology Section Predoctoral Military Physiology Award	11/05/09
APS Environmental & Exercise Physiology Section Space Biomedical Research Institute's Gravitational Physiology Beginning Investigator Award	11/05/09
APS Environmental & Exercise Physiology Section Honor Award	3/01/10
APS Environmental & Exercise Physiology Section Military Award for Beginning Investigators	11/05/09
APS Environmental & Exercise Physiology Section New Investigator Award	11/05/09
APS Environmental & Exercise Physiology Section Space Biomedical Research Institute's Predoctoral Gravitational Physiology Award	11/05/09
APS Environmental & Exercise Physiology Section Predoctoral Recognition Award	11/05/09
APS Environmental & Exercise Physiology Section Recognition Award for Beginning Investigators	11/05/09
APS Gastrointestinal & Liver Physiology Section New Investigator Award	12/08/09
APS Gastrointestinal & Liver Physiology Section Research Recognition Award	12/08/09
APS Gastrointestinal & Liver Physiology Section Takeda Distinguished Research Award	12/08/09
APS Gastrointestinal & Liver Physiology Section Takeda Travel Awards	12/08/09
APS Horace W. Davenport Distinguished Lectureship of the APS Gastrointestinal & Liver Physiology Section	12/08/09
APS Liaison with Industry Postdoctoral Novel Disease Model Award	12/15/09
APS Liaison with Industry Predoctoral Novel Disease Model Award	12/15/09
APS Mead Johnson Research Award in Endocrinology & Metabolism	11/12/09
APS Michael J. Brody Young Investigator Award of the Neural Control & Autonomic Regulation Section	11/04/09
APS Neural Control & Autonomic Regulation Section New Investigator Award	11/04/09
APS Neural Control & Autonomic Regulation Section Research Recognition Award	11/04/09

APS Renal Section Amgen Postdoctoral Excellence in Research Award	11/04/09
APS Renal Section Pfizer Predoctoral Excellence in Renal Research Awards	11/04/09
APS Renal Section New Investigator Award	11/04/09
APS Renal Section Research Recognition Award	11/04/09
APS Renal Section Young Investigator Award	4/16/10
APS Respiration Section New Investigator Award	11/10/09
APS Respiration Section Research Recognition Award	11/10/09
APS Teaching of Physiology Section New Investigator Award	11/04/09
APS Teaching of Physiology Section Research Recognition Award	11/04/09
APS Virendra B. Mahesh Award of Excellence in Endocrinology	11/12/09
APS Water & Electrolyte Homeostasis Section New Investigator Award in Regulatory and Integrative Physiology	11/13/09
APS Water & Electrolyte Homeostasis Section Postdoctoral Research Recognition Award	11/13/09
APS Water & Electrolyte Homeostasis Section Predoctoral Research Recognition Award	11/13/09
APS/NIDDK Minority Travel Fellowship Awards	11/11/09
Robert W. Berliner Award for Excellence in Renal Physiology sponsored by Abbott Laboratories	11/04/09
SEBM Young Investigator Award	12/18/09

BIOCHEMISTRY: Online applications accepted at www.asbmb.org/meeting2010

Application deadline for all ASBMB travel awards is 11:59 PM, EST, Wednesday, November 4, 2009.

ASBMB Annual Meeting Child Care Grant New!	11/04/09
Graduate Minority Travel Award	11/04/09
Graduate/Postdoctoral Travel Award	11/04/09
Undergraduate Affiliates Network Faculty Travel Award	11/04/09
Undergraduate Affiliates Network Student Travel Award	11/04/09
Undergraduate Student Competitive Travel Award	11/04/09

PATHOLOGY: Visit <http://www.asip.org/mtgs/eb10>

ASIP Experimental Pathologist-in-Graduate-Training Award	11/11/09
ASIP Experimental Pathologist-in-Training Award	11/11/09
ASIP Minority Trainee Travel Awards	11/11/09
ASIP Trainee Travel Awards	11/11/09

NUTRITION: Visit <http://www.nutrition.org/about-asn/awards/gsra-competition/>

The ASN/Procter & Gamble Graduate Student Research Awards Competition	11/04/09
(Clinical) Emerging Leaders Award Competition	11/04/09
The International Nutrition Council Student Prize Competition	12/01/09

PHARMACOLOGY: Visit www.aspet.org/public/awards/awards_fellowships.html

ASPET Division for Drug Discovery, Development & Regulatory Affairs Young Investigator Award	11/17/09
ASPET Graduate Student Best Abstract Awards	11/17/09
ASPET Graduate Student Travel Awards	12/01/09
ASPET Minority Graduate Student Travel Awards	12/01/09
ASPET Minority Young Scientist Travel Awards	12/01/09
ASPET Postdoctoral Scientist Awards	11/17/09
ASPET Summer Undergraduate Research Fellow Travel Awards	12/01/09
ASPET Young Scientist Travel Awards	12/01/09

FASEB-MARC PROGRAM: Visit <http://marc.faseb.org>

Minority Travel Awards	3/01/10
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FASEB CAREER CENTER

A service of the FASEB Office of MARC & Professional Development Programs, arranged by Experimental Biology 2010

The EB2010/FASEB Career Center will feature:

- Virtual Career Fair (before, during and after the meeting)
- Computer-assisted registration, 'search-and-referral' services, interview scheduling and message services
- On-site interview facilities
- 'Position Available' posting area
- Career development seminars
- Cover letter and resume critique workshops
- Message center for job-seekers and employers
- Job-Seeker database (year-round job-seeker resume referrals)

Note: Access to the Career Center is FREE to all registered Experimental Biology 2010 meeting attendees.

MARC PROGRAM

The FASEB MARC Program will be sponsoring EB 2010 Travel Awards to help support the participation of faculty/mentors, postdoctoral fellows, and students from minority institutions (MIs) and historically black colleges and universities (HBCUs). The travel awards are funded up to \$1,850 each for travel-related expenses and meeting registration. Travel awards are provided as reimbursements after the meeting. The travel awards are supported by a federal training grant from the NIGMS/NIH; therefore, only U.S. citizens and permanent residents of the U.S. are eligible for the travel awards. Underrepresented minority faculty, students and postdoctoral fellows from majority institutions are also eligible to apply for the travel awards. For travel award information, contact marc@faseb.org **Travel award application deadline — March 1, 2010.**

NIH GRANTS SEMINARS & WORKSHOPS

The FASEB Office of MARC & Professional Development Programs will offer NIH grant seminars in the Career Center at the Experimental Biology 2010 Annual Meeting. Dr. Henry Khachaturian of NIGMS, NIH and Dr. Anthony M. Coelho, Jr. of Grant Success Associates, Inc. will present the seminars and workshops. EB 2010 registration is required to participate in the seminars.

Formula for Grant Success: Part I – Scientific Peer Review

Learn what is important to know and understanding about a sponsoring agency's peer review process. Learn why this understanding peer review can enhance your chances of being funded. This presentation uses the scientific peer review at NIH as an example of what you need to know about peer review at any funding agency and how to use this information in preparation of your grant applications and competing successfully for funding.

Formula for Grant Success: Part II – Grant Writing for Success

This presentation focuses on the principles of Grant Writing for Success common reasons that grant applications fail or succeed. Learn how to make an application meet the needs of the reviewers and the funding agency. Learn how to avoid the need for resubmission. Learn about sponsored agency resources and how to use them in the preparation of your application.

NIH K Awards

This presentation will focus on the NIH's new K99/00 Pathways to Independence Award (for postdoctoral scientists) and the K08 Mentored Clinical Scientist Development Award (for individuals with a health professional doctoral degree committed to a career in laboratory or field-based research.) The interactive discussion will give attendees an opportunity to ask questions of and obtain insight from an NIH representative.

IMPORTANT: Handouts and resource materials will be provided on-site.

For further information, contact:
FASEB Office of MARC and Professional Development Programs
9650 Rockville Pike
Bethesda, MD 20814-3998
Email: marc@faseb.org

Career Center
<http://career.faseb.org>
Email: careers@faseb.org
Phone: 301-634-7021; Fax: 301-634-7353

FASEB MARC Program Travel Awards

Email: marc@faseb.org
Phone: 301-634-7109



Photos Courtesy of Donald Belle



2010 Annual Meeting of the American Association of Anatomists

KEYNOTE SPEAKER

Systems Approaches to Biology and Disease: Integrating Discovery and Hypothesis-Driven Paradigms

Dr. Leroy Hood, M.D., Ph.D.
President
Institute for Systems Biology

LECTURES

R.R. Bensley Award Lecture in Cell Biology
C.J. Herrick Award Lecture in Neuroanatomy
H.W. Mossman Award Lecture in Developmental Biology
Morphological Sciences Award Lecture

These lectures will be given in AAA's Young Investigator Award Symposium; speakers to be announced.

PLENARY SPEAKERS

Formation and Patterning of the Rudiments of the Vertebrate Inner Ear

Henry Gray/Lippincott Williams & Wilkins Scientific Achievement Award Lecture
Gary C. Schoenwolf, Ph.D.
Distinguished Professor
Univ. of Utah School of Medicine

Famous and Outstanding Anatomy Professors I Have Known or with Whom I Have Taught

Henry Gray/Elsevier Distinguished Educator Award Lecture
Carmine D. Clemente, Ph.D.
Professor, Director Brain Research
UCLA School of Medicine

BIOLOGICAL ANTHROPOLOGY MINI-MEETING

Something to Chew On: Deciphering the Evolution of Primate Craniofacial Form

Chair: Qian Wang (Mercer Univ. School of Medicine)

Comparative Primate Anatomy: Recent Models for Functional Adaptation in the Postcranial Skeleton

Chair: Jason Organ (Saint Louis Univ.)

Living Primates and their Ancestors in the Flesh: Comparative Soft Tissue Anatomy

Chair: Timothy Smith (Slippery Rock Univ.)

What's New with Old Bones? The Anatomy of Human Evolution

Chair: Mark Teaford (Johns Hopkins Univ.)

PLENARY SYMPOSIA

All Ears

Henry Gray/Lippincott Williams & Wilkins Scientific Achievement Award Symposium
Chair: Gary Schoenwolf (Univ. of Utah School of Medicine)

Regeneration of Nerve Fibers in the Central Nervous System

Henry Gray/Elsevier Distinguished Educator Award Symposium
Chair: Carmine Clemente (UCLA School of Medicine)

PROFESSIONAL DEVELOPMENT TRACK

The SPIRIT of Creating Fundable Proposals: Preparing SBIR/STTR, Program, Instrument, Research, Infrastructure and Training Grants

Chairs: Lynne Opperman (TAMUSHSC) and Kathy Svoboda (Baylor College of Dentistry)

Workshop: Getting Published in the Biomedical Sciences

Chairs: Gary Schoenwolf (Univ. of Utah School of Medicine) & Kurt Albertine (Univ. of Utah School of Medicine)

EDUCATION & TEACHING TRACK

Anatomy Education Breakfast Roundtables

Chair: David Bolender (Medical College of Wisconsin)

Anatomy Teaching in an Integrated Curriculum*

Chairs: Baljit Singh (Univ. of Saskatchewan) and Geoffrey Guttman (The Commonwealth Medical College)

Master Class: The Problem with Pain

Chairs: David Bolender (Medical College of Wisconsin) & Robert DePhilip (Ohio State Univ. College of Medicine)

The Millennial Student: What We Should Know

Chair: Camille DiLullo (Philadelphia College of Osteopathic Medicine)

Neurophobia to Neurophilia: Teaching Basic Neuroscience as Foundational to Clerkships

Chairs: Jennifer McBride (Cleveland Clinic Lerner College of Medicine) and Donald Wong (Indiana Univ. School of Medicine)

Refresher Course: Surface Anatomy – The Foundation for Physical Assessment

Chairs: David Bolender (Medical College of Wisconsin) & Robert DePhilip (Ohio State Univ. College of Medicine)

Regeneration of Nerve Fibers in the Central Nervous System

Henry Gray/Elsevier Distinguished Educator Award Symposium
 Chair: Carmine Clemente (UCLA School of Medicine)

Teaching Innovations in Anatomy*

Chairs: Carol Nichols (Medical College of Georgia) and Rebecca Fisher (Univ. of Arizona College of Medicine-Phoenix)

SCIENTIFIC SYMPOSIA

Anatomical Variation: Genetic, Developmental and Comparative Perspectives

Co-sponsored by AAA's Advisory Committee for Young Anatomists
 Chair: Kathleen Muldoon (Dartmouth Medical School)

Biological Consequences of Global Change

Chairs: Brian Helmuth (Univ. of South Carolina) and Wenhua Xiong (International Society of Zoological Sciences)

Engineering Perspectives on Development and Differentiation

Chairs: Evan Zamir (Georgia Inst. of Technology)

Epicardium to Coronary Hierarchy: Molecular and Cellular Mechanisms

Chair: Robert Tomanek (Univ. of Iowa)

Anatomical Record Symposium: Epigenetics: A Regulatory Force

Chair: Kurt Albertine (Univ. of Utah School of Medicine)

Formation and Remodeling of the Collateral Vasculature

Chair: William Chilian (LSU Health Science Center)

Intra-uterine Programming and Placentation

Chair: Lopa Leach (Univ. of Nottingham)

Rewiring the Spinal Cord: Recovery after Spinal Cord Injury

Chair: M. Douglas Benson (Texas A & M Health Sciences Center)

Stem Cell Based Therapy

Chair: Martine Dunnwald (Univ. of Iowa)

Sweet Cells: Glycans in Evolution, Development and Disease

Chair: Kenneth Kramer (NIH)

Translational Neurosciences: The View from the Bench and Roles for Basic Science Departments

Co-sponsored by the Association of Anatomy, Cell Biology and Neurobiology Chairpersons

Chair: Gwen Childs (Univ. of Arkansas College of Medicine)

Developmental Dynamics Symposium: Wnt Signaling in Development and Disease

Chair: Richard Dorsky (Univ. of Utah)

HYBRID SYMPOSIA

Anatomy Teaching in an Integrated Curriculum*

Chair: Baljit Singh (Univ. of Saskatchewan) & Geoffrey Guttman (The Commonwealth Medical College)

Digital Technologies in Anatomical Reconstruction: Rebuilding the Past and Engineering the Future*

Chairs: Suzanne Verma (Baylor College of Dentistry) & Andrew Christensen (Medical Modeling Inc.)

Endothelial Tip Cell Guidance and Mechanisms*

Chair: Ramani Ramchandran (Medical College of Wisconsin)

Reactive Oxygen Species: Bench to Bedside*

Chair: Nukhet Aykin-Burns (The Univ. of Iowa)

SCIENTIFIC PLATFORM SESSIONS

Development and Epigenetic Influences on Development*

Chair: Judith Venuti (LSU Health Sciences Center)

Functional Human Anatomy*

Chair: Valerie DeLeon (Johns Hopkins Medical School)

Neural Development, Structure and Disease*

Chair: Keith Fargo (Edward Hines, Jr. VA Hospital)

New Trends in Cardiac and Vascular Biology*

Chair: Eduard Dedkov (New York College of Osteopathic Medicine/NYIT)

Regenerative Medicine/Wound Healing*

Chair: Lynne Opperman (TAMUSHSC)

Stem Cells*

Chair: Martine Dunnwald (Univ. of Iowa)

* AAA will be accepting abstracts for presentation in this session. Please see AAA topic categories starting on page 28.



www.the-aps.org



2010 Annual Meeting of the American Physiological Society

Guest Societies:

- American Federation for Medical Research (AFMR) • Association of Latin American Physiological Societies (ALACF)
- The Biomedical Engineering Society (BMES) • The Microcirculatory Society (MCS)
- Society for Experimental Biology and Medicine (SEBM)

PHYSIOLOGY INFOCUS: Physiology and Biomedical Engineering: Partners in Translational Research

Organized by Gary C. Sieck, Mayo Clin. Col. of Med.

Sunday, April 25

Airway Smooth Muscle: Where Does It Come From, How Does It Work, What Does It Do

Chairs: J.J. Fredberg and Merryn Tawhai

Monday, April 26

Preparing Students for Physiological Complexity – Emphasizing Quantitative Skills

Chair: Dee U. Silverthorn

Tuesday, April 27

One Hundred Years of Starling: His Contributions to Physiology

Chairs: Jane Reckelhoff and Rafael Rubio

Wednesday, April 28

Physiology at the Crossroads of Biomedical Engineering and Medicine

Chair: Y.S. Prakash

SOCIETY AND SECTION LECTURES

Saturday, April 24

Physiology in Perspective — The Walter B. Cannon Memorial Award Lecture

Speaker: Jeffrey J. Fredberg

Sunday, April 25

August Krogh Distinguished Lectureship of the APS Comparative and Evolutionary Physiology Section

Speaker: William H. Karasov

Carl Ludwig Distinguished Lectureship of the APS Neural Control & Autonomic Regulation Section

Speaker: Shaun Morrison

Claude Bernard Distinguished Lectureship of the APS Teaching of Physiology Section

Speaker: Robert Bjork

Edward F. Adolph Distinguished Lectureship of the APS Environmental & Exercise Physiology Section

Speaker: John Johnson

The Henry Pickering Bowditch Memorial Award Lecture

Speaker: Paul Janssen

Monday, April 26

Robert M. Berne Distinguished Lectureship of the APS Cardiovascular Section

Speaker: Frank Faraci

Joseph Erlanger Distinguished Lectureship of the APS Central Nervous System Section

Speaker: Alan Basbaum

Ernest H. Starling Distinguished Lectureship of the APS Water & Electrolyte Homeostasis Section

Speaker: Kirk Conrad

Julius H. Comroe, Jr. Distinguished Lectureship of the APS Respiration Section

Speaker: Eugene Nattie

Tuesday, April 27

The Walter C. Randall Lecture on Biomedical Ethics

Speaker: TBA

Carl W. Gottschalk Distinguished Lectureship of the APS Renal Section

Speaker: Darwin Bell

Horace W. Davenport Distinguished Lectureship of the APS Gastrointestinal & Liver Physiology Section

Speaker: Michael Gershon

Solomon A. Berson Distinguished Lectureship of the APS Endocrinology & Metabolism Section

Speaker: Iain C. F. Robinson

Hugh Davson Distinguished Lectureship of the APS Cell & Molecular Physiology Section

Speaker: Sergio Grinstein

Neuromodulatory Cytokines in Cardiovascular Functions

Chairs: Mohan Raizada and Julian Paton

Pulmonary Hypertension: Mechanisms and Mediators

Chairs: Larissa Shimoda and Thomas C. Resta

RNAi Interference in Cardiovascular Disease

Chair: Zhongjie Sun

Wednesday, April 28

New Insights into the Pulmonary Circulation

Chairs: John West and Frank Powell

New Insights into the Relationship between Sodium Metabolism and Blood Pressure Regulation

Chairs: Michael H. Humphreys and Peter Bie

AGING, GENDER AND SEX DIFFERENCES TRACK

Sunday, April 25

Age, Sex, and Control of Breathing

Chair: Evelyn Schlenker

Tuesday, April 27

Habitual Exercise and Arterial Aging

Chairs: Douglas R. Seals and Hirofumi Tanaka

Sex Steroids in Cardiovascular-Renal Physiology and Pathophysiology

Chairs: Barbara T. Alexander and Donna Korzick

Wednesday, April 28

The Role of the Ubiquitin Proteasome System in Cardiac Disease, Diabetes, and Aging

Chairs: Monte S. Willis and Xuejun Wang

Sarcopenia: Signal Transduction and Metabolism in Senescent Skeletal Muscle

Chair: Thomas H. Reynolds

BLOOD PRESSURE REGULATION TRACK

Sunday, April 25

Autonomic Adjustments to Stress

Chairs: Chester A. Ray and Jason R. Carter

Autoregulation and Renal Injury

Chair: Heather Drummond

Interaction between Respiratory and Limb Muscle Blood Flow during Exercise

Chairs: Peter D. Wagner and Jerome Dempsey

Molecular Mechanisms and Genetics of Hypertension

Chairs: Carol Moreno Quinn and Anna Dominiczak

Monday, April 26

Interactions Between Myosin Light Chain Kinase and Phosphatase in Arterial Myogenic Tone

Chairs: Michael Hill and William Cole

Neural Control of Blood Pressure and Fluid Volume Homeostasis: Sodium Metabolism

Chair: Thomas Cunningham

Neural Mechanisms of Sympathetic Activation in Cardiovascular Diseases

Chair: Hui-Lin Pan

CAREER DEVELOPMENT TRACK

Saturday, April 24

Science Beyond the Laboratory: From Grad School through Retirement

Chair: Gina Schatteman

Productive Translational Research: Tools for Connecting Research Culture and Managing Conflict

Chair: Deborah Zucker

Sunday, April 25

Government Careers in Physiology Revealed

Chairs: Kathy Ryan and Kamal Rahmouni

Helping Students Put the Pieces Together: Fostering Integrative Learning of Physiology

Chair: William H. Cliff

Monday, April 26

Publishing 101: Dos and Don'ts of Publishing in APS Journals

Chairs: Kim E. Barrett and Rita Scheman

Publish, Not Perish: How to Survive the Peer Review Process

Chairs: Jessica A. Clark and Sender Lkhagvadorj

Tuesday, April 27

A Primer For the New PI: How to Herd Cats AND Keep Your Boss Happy

Chairs: Francisco H. Andrade and Angela J. Grippo

EDUCATION TRACK

Saturday, April 24

Computational Modeling and Simulation as a Tool for Studying Physiological Processes

Chairs: Irene Solomon and Chris Wilson

Microfluidics and Nanophotonics

Chairs: Emily Gibson and Moshe Levi

Refresher Course in Cardiovascular Physiology

Chairs: Robert Hester and Tom Pressley

Productive Translational Research: Tools for Connecting Research Culture and Managing Conflict

Chair: Deborah Zucker

Sunday, April 25

Claude Bernard Distinguished Lectureship of the APS Teaching of Physiology Section
Speaker: Robert Bjork
Helping Students Put the Pieces Together: Fostering Integrative Learning of Physiology
Chair: William H. Cliff

Monday, April 26

Focus on the Big Picture: Integration of Undergraduate and Medical Curricula
Chair: Lynelle Golden

Monday, April 26

The Scientific Foundations for Future Physicians Report and Its Implications for Medical and Premedical Education
Chair: Dee U. Silverthorn

HYPOXIA AND OXIDATIVE STRESS TRACK

Sunday, April 25

Reactive Oxygen Species in Vascular Tone and Remodeling
Chair: Steven Miller

Monday, April 26

Hyperoxia- and Reactive Oxygen Species-Induced Stress in the Lung
Chairs: Kaushik Parthasarathi and Christopher M. Waters

Tuesday, April 27

Cardiovascular Adjustments at High Altitude
Chair: Mikael Sander
Comparative Metabolic Physiology
Chair: Karen Sweazea
Inflammatory Responses and Hypoxia-Inducible Pathways
Chairs: Sean Colgan and Holger K. Eltzchig
Mitochondrial Oxidants and Antioxidants in Autonomic Regulation and Cardiovascular Function
Chair: Matthew C. Zimmerman
Novel Molecular Targets for Modulating Cardiac Cell Death and Survival
Chair: David Roth

Wednesday, April 28

Hypoxia effects on Cardio-Respiratory Function and Integration
Chair: Kendall F. Morris
Mechanisms of Peripheral Chemoreception
Chair: Daniel K. Mulkey
New Insights into the Pulmonary Circulation
Chairs: John West and Frank Powell
O-GlcNAcylation: A New Signaling Paradigm for the Cardiovascular System
Chairs: Lance Wells and Natasha Zachara

IMMUNE RESPONSES TRACK

Monday, April 26

Neuromodulatory Cytokines in Cardiovascular Functions
Chairs: Mohan Raizada and Julian Paton

Tuesday, April 27

Epithelial Barrier Function in Inflammatory Bowel Diseases
Chair: Michael Fromm

ION CHANNELS AND TRANSPORTERS TRACK

Sunday, April 25

Ion Transport in Cancer
Chairs: Cathy Fuller and Ken Gagnon

Monday, April 26

Current Understanding of the Mechanisms and Regulation of Intestinal Bitamin, Trace Elements and Metal Transport
Chairs: Hamid M. Said and Robert J. Cousins
Renal Section Young Investigator Awardee Featured Topic
Chair: Pablo Ortiz

METABOLISM AND METABOLIC DISEASES TRACK

Sunday, April 25

So You Want to Phenotype your Mouse? Challenges to Evaluating the Cardiovascular and Metabolic Systems
Chairs: Owen P. McGuinness and Kate Ellacott

Monday, April 26

Endocrine Adaptations to Exercise: How Important is Energy Balance?
Chair: Peter A. Farrell
Novel Gastrointestinal Nutrient Sensors
Chairs: Stephen Crozier and Helen Raybould
Translational Research in Metabolic Syndrome and Cardiovascular Disease: Swine versus Mouse Models
Chair: Michael Sturek

Tuesday, April 27

Mouse Models of Diabetic Renal Disease
Chairs: Lisa Harrison-Bernard and Christine Maric

Wednesday, April 28

The Role of the Ubiquitin Proteasome System in Cardiac Disease, Diabetes, and Aging
Chairs: Monte S. Willis and Xuejun Wang

PUBLIC POLICY TRACK

Saturday, April 24

Science Beyond the Laboratory: From Grad School through Retirement

Chair: Gina Schatteman

Trends in Animal Rights Activism and Extremism

Chair: Bill Yates

Monday, April 26

The Scientific Foundations for Future Physicians Report and Its Implications for Medical and Premedical Education

Chair: Dee U. Silverthorn

Tuesday, April 27

The Walter C. Randall Lecture on Biomedical Ethics

Chair: TBA

SYSTEMS BIOLOGY (-OMICS) TRACK

Sunday, April 25

Novel Opportunities for the Treatment of Heart Failure

Chairs: Magdalena Alonso-Galicia and Craig Plato

Personalized Medicine for the 21st Century: The Implications of a Systems Approach

Chairs: Sue Mulroney and Howard Federoff

So You want to Phenotype Your Mouse? Challenges to Evaluating the Cardiovascular and Metabolic Systems

Chairs: Owen P. McGuinness and Kate Ellacott

Monday, April 26

Caveolar Microdomains, Signaling and Disease

Chair: Paul A. Insel

Gastrointestinal Development and Disease

Chairs: Jessica A. Clark and Jennifer K. Uno

RNAi Interference in Cardiovascular Disease

Chair: Zhongjie Sun

Systems Biology Approach to Monitor Intercellular Networks

Chairs: Sylvie Breton and Bruce Molitoris

Wednesday, April 28

Integrins: New Insights and Therapeutic Targets

Chair: Shaila Basavappa

THERMAL REGULATION AND ENVIRONMENTAL STRESS TRACK

Sunday, April 25

Cerebral Challenges and Consequences of Exercise

Chair: Samuel N. Chevrunt

Tuesday, April 27

Comparative Metabolic Physiology

Chair: Karen Sweazea

TRANSLATIONAL PHYSIOLOGY TRACK

Saturday, April 24

Productive Translational Research: Tools for Connecting Research Cultures and Managing Conflict

Chair: Deborah Zucker

Sunday, April 25

Molecular Physiology of Iron Homeostasis and its Disorders

Chairs: Tomas Ganz and Elizabeta Nemeth

Personalized Medicine for the 21st Century: The Implications of a Systems Approach

Chairs: Sue Mulroney and Howard Federoff

Monday, April 26

Non-erythropoietic Properties of Erythropoietin: Implications for Tissue Protection and Cancer

Chairs: Abdulla Salahudeen and Stephanie Watowich

Translational Research in Metabolic Syndrome and Cardiovascular Disease: Swine versus Mouse Models

Chair: Michael Sturek

Tuesday, April 27

Regenerative Medicine in the 21st Century

Chairs: Emmanuel C. Opara and Anthony Atala

Wednesday, April 28

Vitamin D Deficiency and Its Impact on Health

Chairs: Diane L. Kamen and Vin Tangpricha

NON-TRACK SESSIONS

Saturday, April 24

Microcirculatory Society President's Symposium

Chair: William Jackson

Microcirculatory Society Workshop on Renal Microcirculation

Chair: Ed Inscho

Sunday, April 25

Angiogenesis, Neurogenesis and Brain Recovery from Injury

Chairs: Frank Barone and Michael Chopp

Development of Endocrine Tissues

Chairs: Jeff Schwartz and Paul Thomas

Endoplasmic Reticulum Stress at the Crossroad between Fatty Liver, Leptin Resistance, Obesity and Diabetes

Chair: Ivan Torre-Villalvazo

Extracellular Matrix and Pathology of Cardiovascular Disease

Chairs: Jason Gardner and Pamela Lucchesi

History of Comparative Physiology

Chair: David Goldstein

Matrix Metalloproteinases in Mitochondrial, Cytoskeletal and Nuclear Remodeling

Chair: Suresh Tyagi

Microcirculatory Society Landis Award Lecture

Speaker: TBA

Myofibroblast Functions during Fibrosis and Cancer Spreading

Chair: Giulio Gabbiani

Orexin and the Control of Breathing

Chairs: Gene Nattie and Tomoyuki Kuwaki

Regulation of Epithelial Ion and Water Channels

Chair: TBA

Shear Stress and Vascular Biology

Chairs: Brett Blackman and Hanjoong Jo

Update on Prorenin and Its Receptor

Chairs: Janos Peti-Peterdi and Genevieve Nguyen

Monday, April 26

Cannon's Voodoo Death 2010

Chairs: William T. Talman and Alan Kim Johnson

CNS Regulation of Body Temperature

Chair: Shaun Morrison

Humoral Factors in Renal Injury and Hypertension

Chair: Joey Granger

Hyperkalemic and Hypokalemic Periodic Paralysis in Skeletal Muscle: New Insight from new Mouse Models

Chair: Jean-Marc Renaud

Microcirculatory Society Young Investigator Symposium

Chair: TBA

Redox Control of Skeletal Muscle Adaptation to Exercise and Disuse

Chairs: Scott Powers and Michael Reid

Regulation of Neuronal Cell Volume: From Activation to Inhibition to Degeneration

Chairs: Glenn Toney and Sean Stocker

Stem Cells: Nature's Own Nanotechnology

Chairs: William Chilian and Thomas Hintze

Tuesday, April 27

Airway Protective Behaviors – Cough and Swallow

Chairs: Donald R. Bolser and Paul W. Davenport

Cardiovascular Consequences of the Metabolic Syndrome

Chairs: David Stepp and Jefferson Frisbee

Coordinate Regulation of Vascular Smooth Muscle Gene Expression, Cell Phenotype, and Vessel Function

Chair: William Pearce

Donald Reis Memorial Featured Topic

Chair: TBA

Intrinsic and Extrinsic Regulation of Activity in the Hypothalamus: Mechanisms and Consequences

Chairs: Colin Brown and Mike Ludwig

Membrane Estrogen Receptors

Chairs: Willis K. Samson and Ellis R. Levin

PGC-1alpha in Health, Exercise and Disease

Chair: David Hood

Physiological Biomechanics

Chair: Matthew McHenry

Point-Counter Point: An Update in Endothelial Barrier Function

Chairs: Diego F. Alvarez and Konstantin G. Birukov

Regulation of Epithelial Transporters

Chair: TBA

The Control and Consequences of Renal Electrolyte Transport

Chairs: Robert Hoover and John Geibel

Trainee Highlights in Physiological Genomics

Chair: Lin Liu

Vascular Tissue Engineering

Chair: Christopher Brauer

Wiggers Award Featured Topic: Hypertension, Inflammation and Adaptive Immunity

Chairs: Julian Lombard and David Harrison

Wednesday, April 28

Cytoskeleton-Associated Motors and Tethers in Epithelial Polarity and Trafficking

Chairs: Bruce Stanton and Dennis Brown

Mechanobiology and Oxidative Stress

Chairs: Anthony Passerini and John Frango

Novel Redox Signaling in Ion Channel Regulations and Pathophysiology

Chair: My Helms

Physiological Role of Vascular Endothelial Growth Factors as Homeostatic Regulators

Chair: David Bates

Regulation of Vascular Caliber and Contractility

Chairs: Ed van Bavel and Michael Hill

The Brain, Behavior and Autonomic Function in Health and Disease

Chairs: Angela J. Grippo and Julia A. Moffitt

To Exercise or Not to Exercise: Can We Replace Physical Activity With a Pill?

Chairs: Eva R. Chin and Espen E. Spangenburg

The APS Opening Reception is Saturday, April 24 directly following the Walter B. Cannon Memorial Award Lecture.

This event is free for all APS members and nonmembers designating physiology as their primary research area.

APS Members should plan to attend the Business Meeting on Tuesday, April 27.



American Society for Biochemistry and Molecular Biology

www.asbmb.org/meeting2010



2010 Annual Meeting of the American Society for Biochemistry and Molecular Biology

Guest Society:

Division of Biological Chemistry - American Chemical Society

AWARD LECTURES

Herbert Tabor/ *Journal of Biological Chemistry* Lectureship

Phillip A. Sharp, Massachusetts Institute of Technology

ASBMB Award for Exemplary Contributions to Education

To be announced at www.asbmb.org

ASBMB-Merck Award

To be announced at www.asbmb.org

Avanti Award in Lipids

To be announced at www.asbmb.org

FASEB Excellence in Science Award

Susan S. Taylor, HHMI/University of California San Diego

Fritz Lipmann Lectureship (2009 Recipient)

Douglas C. Rees, California Institute of Technology

Herbert A. Sober Lectureship

To be announced at www.asbmb.org

Schering-Plough Research Institute Award

To be announced at www.asbmb.org

William C. Rose Award

To be announced at www.asbmb.org

THEMATIC MEETINGS AND SYMPOSIA

DNA Transactions

Organizers:

Ellen H. Fanning, Vanderbilt University and
Thomas A. Kunkel, NIEHS, NIH

SYMPOSIA

DNA Synthesis and Mutagenesis

Chair: Ellen H. Fanning
Thomas A. Kunkel, Helle D. Ulrich, Graham C. Walker

Replication Fork Dynamics

Chair: Graham C. Walker
James M. Berger, Ellen H. Fanning, James L. Keck

DNA Damage Signaling and Repair

Chair: Helle D. Ulrich
David Cortez, Nicole J. Francis, W. Matthew Michael

The 3Rs, Genome Instability, and Disease

Chair: Thomas A. Kunkel
William C. Copeland, Penelope A. Jeggo, Cynthia T. McMurray

Chromatin and Transcription

Organizers:

Joseph C. Reese, Pennsylvania State University and
Raymond C. Trievel, University of Michigan Medical School

SYMPOSIA

Chromatin Modifications

Chair: Karolin Luger
Sharon R. Dent, Ali Shilatifard, Raymond C. Trievel

American Society
for Biochemistry and
Molecular Biology

Transcription Initiation and Elongation

Chair: Katherine Jones
Steve Hahn, Joseph C. Reese, Robert G. Roeder

Chromatin Structure and Remodeling

Chair: Raymond C. Trievel
Blaine Bartholomew, Karolin Luger, Vasily M. Studitsky

Co-transcriptional Processing

Chair: Joseph C. Reese
David Bentley, Katherine Jones, Susana Rodriguez-Navarro

Biological Chemistry of RNA

Organizers:
Martha J. Fedor, The Scripps Research Institute and
Sarah A. Woodson, Johns Hopkins University

SYMPOSIA

Post-transcriptional Gene Regulation

Chair: Melissa J. Moore*
Jeffrey S. Kieft, Kimberly Mowry

Ribosome Assembly and Function

Chair: Sarah A. Woodson*
Harry Noller, Jamie R. Williamson

Splicing Mechanism and Regulation

Chair: Douglas L. Black*
Magda Konarska, Jonathan P. Staley

Ribozyme Structure and Function

Chair: Martha J. Fedor*
Dipankar Sen, Hiroaki Suga

Protein Synthesis, Catalysis and Turnover

Organizers:
Terri Goss Kinzy, UMDNJ-Robert Wood Johnson Medical School
and
Zhen-Qiang Pan, Mount Sinai School of Medicine

SYMPOSIA

Protein Synthesis: Mechanism and Regulation

Chair: David M. Bedwell
Thomas Dever, Terri Goss Kinzy, Marina Rodrina

Protein Synthesis: Translation in Medicine

Chair: Terri Goss Kinzy
David M. Bedwell, Estela Jacinto, Robert J. Schneider

Protein Turnover: Tagging Substrates for Ubiquitination

Chair: Zhen-Qiang Pan*
Vishva Dixit, Dieter Wolf

Protein Turnover: Function and Regulation of the 26S Proteasome

Chair: Ivan Dikic*
David Glass, Kylie Walters

(*Chair will also speak in this session)

Lipid Interactions in Physiology and Disease

Organizers:
Daniel M. Raben, Johns Hopkins University School of Medicine and
Mary F. Roberts, Boston College

SYMPOSIA

Emerging Concepts in the Physiology and Pathology of Lipid Metabolism

Chair: Daniel M. Raben
Lucio Cocco, Valerian E. Kagan, Lina M. Obeid

Novel Approaches for Studying Lipid Signaling, Metabolism, and Membranes

Chair: Binks W. Wattenberg
Richard W. Gross, Akihiro Kusumi, Mary F. Roberts

Cellular Lipid Movement and Compartmentalized Metabolism

Chair: Lina M. Obeid
Yvonne Lange, Gerrit van Meer, Binks W. Wattenberg

Structure and Regulation of Lipid Transporters and Metabolizing Enzymes

Chair: Mary F. Roberts
George M. Carman, Daniel M. Raben, Frances J. Sharom

Lipidology for the Novice Workshop

Chairs: Daniel M. Raben, Mary F. Roberts

Metabolism and Disease

Organizers:
John M. Denu, University of Wisconsin Medical School and
Gerald W. Hart, Johns Hopkins University School of Medicine

SYMPOSIA

Quantitative Metabolomics and Disease

Chair: Gerald W. Hart
Anne Evans, Christopher Newgard, Gary Siuzdak

Sirtuins, Metabolism and Aging

Chair: Paolo Sassone-Corsi
John M. Denu, Leonard Guarente, Marcia C. Haigis

Nutrient Regulation of Signaling and Transcription

Chair: Christopher Newgard
Morris J. Birnbaum, Gerald W. Hart, Bruce M. Spiegelman,
Juleen R. Zierath

Metabolism and Epigenetics

Chair: John M. Denu
Dana Dolinoy, Paolo Sassone-Corsi, Qinghong Zhang

Hypertension: Treatment, Disparities and Molecular Mechanisms

Sponsored by the ASBMB Minority Affairs Committee

Organizers:
Craig E. Cameron, Pennsylvania State University and
Robert Hoover, University of Chicago

SYMPOSIA

Molecular Mechanisms of Hypertension

Chair: Robert Hoover*
Thomas R. Kleyman, David Pearce

Diagnosis and Treatment of Hypertension

Chair: Kenneth A. Jamerson*
John M. Flack, Shawna D. Nesbitt

Disparities in Hypertension Treatment and Sequelae

Chair: Lawrence Agodoa*
Janice Lea, Jackson T. Wright, Jr.

New Frontiers in Genomics and Quantitative Proteomics

Organizers:
David Arnosti, Michigan State University and
Michael Washburn, Stowers Institute for Medical Research

SYMPOSIA

Quantitative Proteomic Analysis of Protein Complexes

Chair: Yingming Zhao
Lan Huang, Carol V. Robinson, Michael Washburn

Genomics: Model Organisms and New Frontiers I

Chair: David Arnosti
Claire Fraser-Liggett, Phillip Hugenholtz, Edward M. Rubin

Quantitative Analysis of Posttranslational Modifications

Chair: Michael Washburn
Joshua J. Coon, Forest M. White, Yingming Zhao

Genomics: Model Organisms and New Frontiers II

Chair: Phillip Hugenholtz
David Arnosti, Andrew G. Clark, Bing Ren

The Inner Workings of Protein Mass Spectrometry for Proteomics Workshop

Chair: Michael Washburn

Systems Biology, Synthetic Biology and Signal Transduction

Organizers:
James E. Ferrell, Jr., Stanford University and
Wendell A. Lim, University of California San Francisco

SYMPOSIA

Making Sense of Whole Genome Data

Chairs: TBA
Jonathan Eisen, Roy Kishony, Daphne Koller

(*Chair will also speak in this session)



Signaling Modules

Chair: Wendell A. Lim
James E. Ferrell, Jr., Chao Tang, Mary Teruel

Evolution and Development

Chair: Daphne Koller
Arthur Lander, Michael Lynch, Marian Walhout

Synthetic Biology

Chair: James E. Ferrell, Jr.
Drew Endy, Wendell A. Lim, Peter Pryciak

Chemical Biology and Drug Discovery

Organizers:
Peter J. Tonge, Stony Brook University and
Adrian Whitty, Metcalf Center for Science and Engineering

SYMPOSIA

Mechanisms of Drug Action

Chair: John Blanchard
Jessie English, Lizbeth Hedstrom, Peter J. Tonge

Chemical Biology: Dissecting Cellular Processes

Chair: Donald Hilvert
Joanna S. Fowler, Tom Wandless, Adrian Whitty

Drug Resistance

Chair: Peter J. Tonge
John Blanchard, Celia Schiffer, Joseph Wu

Chemical Biology: Evolution, Engineering and Design

Chair: Adrian Whitty
Frances H. Arnold, Donald Hilvert, Alexey Lugovskoy

Careers in Biochemistry and Molecular Biology: A World of Options, A Variety of Skills

*ASBMB Education and Professional Development Committee
Sponsored Symposia*

Organizer:
Peter J. Kennelly, Virginia Polytechnic Institute and State University

SYMPOSIA

Undergraduate SMART Teams

Chair: J. Ellis Bell*
Tim Herman

Career Workshop for Undergraduates

Chair: Peter J. Kennelly*
Cynthia M. Barber

The Biochemistry and Molecular Biology Career Spectrum

Chairs: Jonathan Monroe*, Kathleen Parson*, Joseph Provost*
Lisa M. Balbes, Evelyn Jabri, Joan Kwong, Myriam E. Cotten,
Sean Decatur, Ryan Mehl

**Classroom of the Future I:
Models for Multidisciplinary Training**

Chair: Li Zhang
Edward Caner, E. Dale Sevier, Sheila Tobias

**Classroom of the Future II:
Professional Training for B.S. Students**

Chair: Peter J. Kennelly*
Dorothy Deremer, Jonathan Monroe, Li Zhang

Complementary Skills: What Are Employers Looking For?

Chair: E. Dale Sevier
Susan Ainsworth, Cynthia M. Barber, Daniel Byrd

Saying What You Mean: Tips on Grant Writing

Chair: Peter J. Kennelly

Mentoring

ASBMB Minority Affairs Committee sponsored symposium

Chair: Phillip A. Ortiz*
Marilee Benore, Sydella Blatch, David Porush

Life Sciences and the Issues of Our Time

ASBMB Public Affairs Advisory Committee sponsored symposium

Chair: Robert E. Palazzo

(*Chair will also speak in this session)

High-Throughput Structural Biology: Enabling Technologies and Accomplishments of Structural Genomics and What Has Been Learned

Sponsored by NIGMS, NIH

Chair: Peter C. Preusch

PSI: Biology High-Throughput Enabled Structural Biology Partnerships

Sponsored by NIGMS, NIH

Chair: Peter C. Preusch

Research Funding by the American Cancer Society

Sponsored by the ACS

Chair: Charles Saxe

SPECIAL EVENTS

- 14th Annual Undergraduate Student Research Poster Competition (**)
- ASBMB 5K Fun Run (**)
- ASBMB Graduate Student and Postdoctoral Travel Award Symposium and Professional Development Program(**)
- ASBMB Opening Reception and Dance
- How to Publish in the *JBC*
- Minority Scientists Welcome Reception (Sunday evening)
- Scientific Thematic Receptions (Monday & Tuesday evenings)
- Women Scientists Panel and Reception
- YES Mixer (Young Experimental Scientists)

(**) Advance registration required.

ATTENTION ALL BIOCHEMISTRY UNDERGRADUATES!

**14th ANNUAL ASBMB UNDERGRADUATE STUDENT RESEARCH POSTER COMPETITION
Saturday, April 24, 2010, Anaheim, CA**

Prizes will be awarded to students making the best poster presentations.

2010 Competition Rules:

- Abstracts **MUST** be submitted online to an ASBMB Topic Category.
- Sign up for the competition while submitting your abstract online.
Select the "Yes" Poster Competition Box following your ASBMB Topic Category selection.
- Student must be an undergraduate. Spring 2010 graduates are eligible.
- Student must be the first author of the abstract. There are **NO** co-first authors.
- All abstracts must be "Successfully Submitted," by the November 4th deadline.
Late-breaking abstracts will be accepted on a space available basis only.
- Poster competition participants will present their abstracts twice:
1st) During the competition. 2nd) During the main EB Meeting, Sun-Tues.
Programming notifications will be sent out by early February, 2010.
- For additional competition details and sign up instructions, please visit www.asbmb.org/meeting2010.

**JUDGES NEEDED to volunteer for the Undergraduate Student Poster Competition,
Saturday, April 24, 2010. Please visit www.asbmb.org/meeting2010 to sign up.**



<http://www.asip.org/mtgs/eb10/>



2010 Annual Meeting of the American Society for Investigative Pathology (ASIP)

Guest Societies:

American College of Veterinary Pathologists (ACVP) • American Society for Matrix Biology (ASMB) • International Society for Analytical and Molecular Morphology (ISAMM) • International Society for Biological and Environmental Repositories (ISBER) • Pulmonary Pathology Society (PPS) • Society for Cardiovascular Pathology (SCVP) • Società Italiana di Patologia/Italian Pathology Society (SIP)

LECTURES

KEYNOTE LECTURE: Of Mice and Women: New Insights into Mammary Development and Breast Cancer

Speaker: Zena Werb

ASIP COTRAN ESTABLISHED INVESTIGATOR AWARD LECTURE: TBD

Award Recipient: TBD

ASIP EXCELLENCE IN SCIENCE AWARD LECTURE: Cancer Epigenetics: Lessons from Yeast and Humans

Award Recipient: Ashley G. Rivenbark

ASIP OUTSTANDING INVESTIGATOR AWARD LECTURE: Parkinson's Disease: Converging Insights from Toxin and Genetic Models

Award Recipient: Charleen Chu

ASIP ROUS-WHIPPLE AWARD LECTURE: Mechanobiology and Diseases of Mechanotransduction

Award Recipient: Donald E. Ingber

ASMB LECTURE: Matrix Metalloproteinases: Effectors of Inflammation

Speaker: William C. Parks

Sponsored by ASIP and the American Society for Matrix Biology

SYMPOSIA

ACVP Symposium: One Health: Globalization of Health Threats

Chairs: Mark McArthur and Wendy G. Halpern

Sponsored by ASIP and the American College of Veterinary Pathologists

ASIP Presidential Symposium: Photonics in Medicine: New Approaches to Cell and Tissue Imaging

Chair: Stanley Cohen

Biomarkers for Alzheimer's and Parkinson's Disease: Targeted and Unbiased Approaches

Chair: Jing Zhang

Dynamic Changes in Cellular and Molecular Events in Leukocyte Transmigration

Chairs: Sussan Nourshargh and Bill Lusinskas

In addition to invited speakers, talks will be included from abstract submissions

Genetics and Molecular Biomarkers of Disease and Nanotechnology

Chairs: Gregory J. Gores and Daniel Remick

Glycans and Other Factors in Atherosclerosis

Chairs: Jonathon W. Homeister and Alfonso Pompella

Sponsored by ASIP and the Italian Pathology Society

Heart Valve Pathobiology, Cells, Matrix and Development

Chair: Avrum I. Gottlieb

Sponsored by ASIP and the Society for Cardiovascular Pathology

ISBER Symposium: Biological Banking: The Foundation for Translational Research

Chairs: Rajiv Dhir and Cheryl Michels

Sponsored by ASIP and the International Society for Biological and Environmental Repositories

Liver Pathobiology Symposium: Hepatocellular Cancer: At the Crossroads of Liver Injury and Repair

Chairs: S. Paul Monga and Xiao-Ming Yin

Sponsored by the ASIP Liver Pathobiology Scientific Interest Group

Mending Broken Hearts: From Pathogenesis to Treatment of Cardiac Infection and Inflammation

Chair: David M. Engman

Molecular and Cellular Basis of Disease: Mitochondrial Medicine and Longevity

Chair: Sebastiano Andò

Sponsored by ASIP and the Italian Pathology Society

In addition to invited speakers, talks will be included from abstract submissions

Molecular Pathways of Tumorigenesis

Chairs: Michael L. Cleary and Kathleen R. Cho

PPS Symposium: Acute Lung Injury

Chairs: Timothy Allen and Philip Cagle

Sponsored by ASIP and the Pulmonary Pathology Society

Trends in Experimental Pathology: The Interplay of Autophagy and the Proteasome in Pathogenesis

Chairs: Xiao-Ming Yin and Monte S. Willis

Supported by an unrestricted educational grant from the Robert E. Stowell Endowment Fund

The Role of Junction Adhesion Molecules in Health and Disease

Chairs: Asma Nusrat and Sussan Nourshargh

10th Annual Workshop on Graduate Education in Pathology

Chair: TBD

Sponsored by the ASIP Education Committee

Bioinformatics Workshop

Chairs: Arul Chinnaiyan and Christopher Maher

Sponsored by the ASIP Informatics Scientific Interest Group

Blood Vessel Club: Are Proteases Accelerating or Braking Inflammation?

Chairs: Elaine W. Raines and William C. Parks

Breast Cancer Workshop: Molecular Pathobiology of Breast Cancer

Chairs: William B. Coleman and Ashley G. Rivenbark

Sponsored by the ASIP Breast Cancer Scientific Interest Group

Club Hepatomania

Sponsored by the ASIP Liver Pathobiology Scientific Interest Group

Highlights: Graduate Student Research in Pathology

Chair: Anthony Cuneo

Sponsored by the ASIP Committee for Career Development, Women & Minorities

Pink Ribbon Alliance

Sponsored by the ASIP Breast Cancer Scientific Interest Group

Workshop: Non-traditional Career Opportunities in Pathology

Chairs: Elizabeth Galbreath and Jayne Reuben

Sponsored by the ASIP Committee for Career Development, Women & Minorities, the American College of Veterinary Pathologists and the FASEB Minority Access to Research Careers (MARC) Program

Workshop: You Only Build Me Up to Tear Me Down: The Ubiquitin Proteasome Pathway in Disease

Chairs: Monte S. Willis and Stewart H. Lecker

In addition to invited speakers, talks will be included from abstract submissions

WORKSHOPS/SPECIAL SESSIONS

10th Annual Career Development Program and Lunch: Mentoring the Mentors

Chairs: Marion C. Cohen and Stanley Cohen

Sponsored by the ASIP Committee for Career Development, Women & Minorities, the American Association of Anatomists and the FASEB Minority Access to Research Careers (MARC) Program
Supported by an unrestricted educational grant from Cadmus





2010 Annual Meeting of the American Society for Nutrition

Guest Societies:

- ILSI North America
- American Heart Association (AHA)
- Nutrition, Physical, Activity and Metabolism (NPAM) Council
- American Dietetic Association (ADA)

Student award oral competitions will take place on Saturday afternoon.

SYMPOSIA, WORKSHOPS, LECTURES, SPECIAL SESSIONS, MINISYMPOSIA, CONTROVERSY

Controversy: Dietary Glycemic Index: Are We Ready to Use it for Healthier Eating?

Chairs: Allen Taylor and F Xavier Pi-Sunyer

Symposium: Responsive Feeding: Promote Healthy Growth and Development for Infants and Toddlers

Chairs: Maureen Black and Kristen Hurley

Symposium: Dietary Regulation of microRNA Expression and Cancer Prevention

Chairs: Cindy Davis and Nancy Turner

Symposium: The Assessment of Food Intake in Individuals and Groups: Current State of the Art and Future Directions

Chairs: James Hill and Susan Roberts

Conference: Innovative Solutions to Improve the Assessment of Dietary Practices in Clinical and Epidemiologic Research

Chairs: Amy Subar, Carol Boushey and Tom Baranowski

Symposium: Role of Adipose Tissue Architecture and the Extracellular Matrix in Metabolism and Disease

Chairs: Sean Adams and Philipp Scherer

NBME/USMLE Writing Workshop

Chairs: Douglas Heimburger and Richard Eisenstein

Special Session: State of the Science of Diet and Mental Energy

Chairs: Fran Seligson and John Milner

Symposium: Nutrition at the Forefront of Medical Education

Chairs: Sachiko St Jeor and Richard Eisenstein
[The Education Forum]

Minority Affairs Committee Symposium: Nutrition in Health Disparities

Chairs: Kristie Lancaster and Odilia Bermudez

Special Session: Who is Responsible for Nutrition in the United States? Understanding the Role of Government Agencies in Nutrition Policy, Promotion, Education, and Outreach

Chair: Emily Tomayko

Symposium: Women in Science and Medicine

Chair: Simin Meydani

Symposium: Sodium in the Food Supply: Challenges and Opportunities

Chairs: Douglas DiRienzo and Eric Hentges

History Committee Symposium: History of Folate

Chair: Barry Shane

Symposium: ASN Public Information Committee

Symposium: Present and Emerging Clinical Applications of Amino Acid Supplements

Chairs: Susan Hutson and David Baker

Symposium: The Role of Magnesium and Novel Cation Channels in Inflammatory Aspects of Cardiovascular/Renal/Metabolic Disease: From Molecule to Patient

Chair: Andrea Rosanoff

Symposium: Applications of Modeling Techniques to Identify Mechanisms Involved in Obesity

Chairs: Heidi Johnson, Mark Hanigan, Kelly Swanson, and Sung Woo Kim

Visit www.nutrition.org, click on meetings for program scheduling.

Symposium: Aging 2010: Challenges and New Opportunities for Intervention in the Clinical Nutrition Problems in the Aged

Chairs: Johanna Dwyer, Mary Ann Johnson and Edward Saltzman

Symposium: Systems Genetics in Nutrition Research

Chairs: Naima Moustaid and Brynn Voy

Controversy: Weight Management and Sarcopenia of Aging: How Much Protein is Enough?

Chairs: David Heber and William J Evans

Symposium: Minerals and Regulation of Gene Expression

Chairs: James Collins and Shannon Kelleher

Symposium: The Science of Exercise for Obesity

Chairs: George Blackburn and Caroline Apovian

Symposium: Dissemination and Implementation Approaches to Move Nutrition Education Effectively Down the Translation Pathway

Chairs: Cindy Fitch and Douglas DiRienzo

MINISYMPOSIUM 2010

Aging and Chronic Disease

Nutrition, muscle function and longevity

Chair: Denise Houston

Nutrition, physical activity and cognitive function

Chair: Mary Ann Johnson

Osteoporosis and bone metabolism in aging

Chair: Mary Ann Johnson

Obesity and diabetes in older adults

Chair: Connie Bales [Cosponsored with the Obesity RIS]

Community nutrition and aging

Chair: Jung-Sun Lee

Nutrition interventions for risk factor modification in age-related disease

Chair: Joseph Sharkey

Nutritional assessment in older populations

Chair: Joseph Sharkey

Environment and diet in aging

Chair: Joseph Sharkey

Community and Public Health Nutrition

Community and public health nutrition interventions

Chairs: Ed Frongillo and Sonya Jones

Diet, food security, and health promotion in diverse communities

Chairs: Ed Frongillo and Sonya Jones

CARIG (Carotenoids)

Carotenoids and health

Chairs: Sherry Tanumihardjo and Elizabeth Johnson

Diet and Cancer

Diet and cancer, macronutrients

Chairs: Nancy Turner and Andrew Flood

Diet and cancer, micronutrients and bioactive compounds

Chairs: Eva Schmelz and Brian Lindshield

Diet, exercise and cancer risk

Chairs: Arpita Basu and Jairam Vanamala

[Cosponsored with the Obesity RIS]

Translational and clinical aspects of diet and cancer

Chairs: Norman Hord and Bobe Gerd

Obesity, inflammation and cancer risk

Chairs: Robert Chapkin and Shanmugam Nagarajan

[Cosponsored with the Obesity RIS]

Nutrition and cancer survivorship

Chairs: Terry Hartman and John Milner

Dietary Bioactive Compounds Including Botanicals

Dietary Bioactive Compounds I: Mechanisms of action and molecular targets

Chairs: Josh Bomser and Clinton Allred

Dietary Bioactive Compounds II: Chronic disease risk reduction

Chairs: Nate Matusheski and Keith Harris

Dietary Bioactive Compounds III: Antioxidants and free radicals

Chairs: Richard Bruno and Mario Ferruzzi

Dietary Bioactive Compounds IV: Medicinal foods

Chairs: Sheldon Hendler, Young-Sun Song, Sang-Kyu Noh

Fermented foods and probiotic

Chairs: Jim Daily III, Geun-Eog Ji, Sunmin Park

Energy and Macronutrient Metabolism

Energy balance, macronutrient and weight loss

Chair: Danielle Day

Obesity and the metabolic syndrome

Chair: Nick Hays [Cosponsored with the Obesity RIS]

Protein and amino acid metabolism

Chair: Blake Rasmussen

Lipid and fatty acid metabolism and transport

Chair: Eric Yen

Dietary factors affecting lipid metabolism

Chair: Jack Odle

Polyunsaturated fatty acids and health

Chair: Jay Whelan

Metabolic phenotyping, metabolomics and biomarkers

Chair: Sean Adams

Carbohydrate metabolism

Chair: Mark Haub

Regulation of food intake

Chair: Mark Kern

Exercise and metabolism

Chair: Wayne Campbell

Experimental Animal Nutrition

Animal research models in lipid and protein nutrition and physiology

Chairs: Sung Woo Kim and Kazuo Katoh

Canine and feline nutrition and physiology

Chairs: Kelly Swanson and Julie Spears

Animal models of gastrointestinal health and disease

Chair: Kelly Swanson

Animal models of bone health and disease

Chair: Jay Cao

Lactation

Human Milk and Lactation

Chairs: Donna Chapman and Shelley McGuire

International Nutrition

Mathematical Modeling

Medical Nutrition/Education

Nutrition support

Comprehensive weight management

Nutritional interventions for health promotion

Nutrition and inflammation

Nutrition Education

Childhood obesity: Nutrition education programs and interventions

Tailoring nutrition education interventions for diverse audiences

Translating nutrition education from bench to behavior

Nutrient-Gene Interactions

Co-chairs: Yuan-Xiang Pan and Dongmin Liu

Epigenetics

Co-chairs: Sharon Ross and Janos Zempleni

Nutrient-sensing mechanisms

Co-chairs: Tracy Anthony and Hong Chen

Regulation of mineral metabolism

Co-chairs: Emily Ho and Shannon Kelleher

[cosponsored with the Vitamin and Mineral RIS]

Nutrigenomics and nutriproteomics

Co-chairs: Wayne Bidlack and Keith Martin

Gene variation on nutrient metabolism

Co-chairs: Ahmed El-Sohemy and Margarita Teran

Dietary bioactives and gene expression

Co-chairs: Donato Romagnolo and Stephen Clarke

Maternal-fetal programming of gene expression

Co-chairs: Patrick Stover and Angela Devlin

Nutrient effects on stem cell differentiation and pluripotency

Co-chairs: Robert Chapkin and Young Kim

Nutritional Epidemiology

The metabolic syndrome: measurement issues and its effects on health outcomes

Chair: Nicola McKeown

Assessing dietary supplement use and data base issues

Chair: Regan Bailey

Applications, benefits, challenges of public use data sets for nutrition research

Chair: Sybille Kranz

Innovative diet assessment technologies and measurement error methodologies

Chair: Anna Maria Siega-Riz

Trends in dietary and anthropometric data for special populations

Chair: Youfa Wang

Measures of diet and their association with health outcomes

Chair: Ka He

Nutritional Immunology,

Chair: Bobbi Langkamp-Henken

Immune modulating nutraceuticals and functional foods

Chair: Barry Ritz

Nutrition Translation from Bench to Consumer

The use of consumer insights to guide scientific research

Balancing foods and nutrients in the diet

(e.g. nutrient density, ratios, types)

Nutrition science translation for policy, practice and consumers

Unintended consequences of limited science on policy

Understanding and communicating benefits/risks of natural-state foods (e.g. minimally processed, natural, organic)

Obesity

Integrative biology, adipocyte biology, nutrient, amino acid and fatty acid metabolism

Chair: Christos Mantzoros

Brain, gut, liver, muscle, and adipocyte molecular metabolism and obesity

Chair: Barbara Corkey

Genetics and obesity

Chair: Alan Herbert

Adipose tissue, biology and signal transduction

Chair: Susan Fried

Assessment of obesity: Medical evaluation and risk

Chair: Robert Kushner

Pediatric obesity, clinical studies and interventions

Chair: Carine Lenders

Exercise and regulation of muscle metabolism

Chair: Jim Hill

Obesity and diabetes in older adults

Chair: Connie Bales

[Cosponsored with the Aging and Chronic Disease RIS]

Obesity and the metabolic syndrome

Chair: Nick Hays

[Cosponsored with the Energy and Macronutrient Metabolism RIS]

Diet, exercise and cancer risk

Chair: Arpita Basu *[Cosponsored by the Diet and Cancer RIS]*

Obesity, inflammation and cancer risk

Chair: Robert Chapkin *[Cosponsored with the Diet and Cancer RIS]*

Vitamins and Minerals

Iron

Chairs: Okhee Han, Manju Reddy

Zinc

Chairs: James McClung, Shannon Kelleher

Copper

Chairs: Joseph Prohaska, Denis Medeiros

Selenium

Chair: Roger Sunde

Calcium, phosphorus, magnesium and vitamin D

Chair: Susan Zaripheh

Antioxidant nutrients

Co-chairs: Richard Bruno, Carol Johnston

Regulation of mineral metabolism

Co-chairs: Emily Ho and Shannon Kelleher

[Cosponsored with NGRIS]

One carbon metabolism nutrients

Chairs: Marie Caudill, Angela Devlin

Micronutrients and energy metabolism

Chair: Melinda Manore

Vitamin A and retinoids

Chair: Loredana Quadro

Vitamin E and K Interactions

Chairs: Maret Traber and Sarah Booth



2010 Annual Meeting of the American Society for Pharmacology and Experimental Therapeutics

Guest Society:

Behavioral Pharmacology Society (BPS)

SYMPOSIA

Regenerative Pharmacology and Stem Cell Research for Tissue and Organ Repair: State of the Art

Chairs: Dennis Marshall and George Christ

Applications of Stem Cell Therapies in Clinical Development and Regenerative Pharmacology in Organ Repair

Chairs: Christian C. Felder and Alex Chen

Epigenetic Regulation: Concepts and Applications in Psychiatric, Neurological and Substance Abuse Disorders

Chairs: James E. Barrett and Michael A. Nader

When the Smoke Clears, There's More to Neuronal Nicotinic Acetylcholine Aceptors

Chairs: Marina Picciotto and Lance McMahon

In Vivo Modeling in Drug Discovery and Development: Multiple Approaches to Predict Clinical Efficacy in CNS Disorders

Chairs: Sharon Rosenzweig-Lipson and Paul McGonigle

New Insights About an "Old" Second Messenger, cAMP: Implications for Cardiovascular Pharmacology

Chair: Paul Insel

New Therapeutic Approaches to Combat Arterial Thrombosis

Chairs: John C. Kermode and Zaverio Ruggieri

Integrating Genetics, Genomics and Pharmacology: How the Pharmacogenomics Knowledge Base Catalyzes Pharmacogenomic Research and Translational Medicine

Chairs: Andrea Gaedigk and Russ Altman

Extracellular Matrix Proteins of the CCN Family as Therapeutic Targets

Chairs: Joan Heller-Brown and Lester F. Lau

Stimulus-Bias in an Allosteric World: Relevance to CNS Drug Target Validation

Chairs: Arthur Christopoulos and Christian C. Felder

Orphan Cytochrome P450 and Other Drug Metabolizing Enzymes

Chair: F. Peter Guengerich

Protein-Protein Interactions and Modulation of Drug Metabolism

Chair: Timothy S. Tracy

Industrial and Academic Partnerships: A New Era (workshop)

Chairs: Larry Wienkers and Timothy Tracy

High-Resolution Structural Approaches to Understanding GPCR Activation

Chair: Brian Kobilka

Wnt Signaling and Development: Conventional and Unconventional Mechanisms of GPCRs

Chair: Craig Malbon

Sphingosine 1-Phosphate Signaling as a Therapeutic Target

Chair: Kevin R. Lynch

Spatial and Temporal Organization of Cell Signaling

Chair: John D. Scott

**Applying Web 2.0 Technologies in Teaching Pharmacology:
Developing the Tool Box**

Chairs: John L. Szarek and William B. Jeffries

**Recent Advances in the Neuropharmacology of Anxiety:
Implications for Novel Therapeutics**

Chair: Beverly Greenwood-Van Meerveld

**Role of Mitochondria in Pathogenesis of Drug Hepatotoxicity:
A Tale of Stress**

Chair: Neil Kaplowitz

**Regulating the Regulators: Redox Regulation and Stress
Response Proteins**

Chair: Daret St. Clair

Introduction of Drug Safety (Pharmacovigilance) Into Curricula

Chair: TBA

**Receptor Independent Activators of G-protein Signalling in the
Nervous System**

Chair: Stephen M. Lanier

DIVISION SESSIONS

**Behavioral Pharmacology Division Symposium: Stress,
Cognitive Function and Monoaminergic Mechanisms in
Psychiatric Disorders**

Chair: David Morilak

**Cardiovascular Pharmacology Division Junior Scientists'
Competition and Paul M. Vanhoutte Distinguished Award
Lecture in Vascular Pharmacology**

Speaker: TBA at www.aspet.org

**Drug Discovery, Development and Regulatory Affairs Division
Symposium: Protease - Activated Receptors: New Roles and
Regulatory Mechanisms**

Chair: JoAnn Trejo

**Drug Metabolism Division and James Gillette Best Paper
Award Platform Session**

**Molecular Pharmacology Division Postdoctoral Award
Finalists**

**Neuropharmacology Division Postdoctoral Scientist Award
Finalists**

Pharmacology Education Division Symposium

**Integrative Systems, Translational and Clinical Pharmacology
Young Investigator Platform**

**Toxicology Division Symposium: ABC Transporters: Their Role
in Physiology, Toxicology and Cancer**

Chair: John Schuetz

LECTURES

**RAY FULLER LECTURE: Transcriptional and Epigenetic
Mechanisms of Drug Addiction**

Speaker: Eric Nestler

JULIUS AXELROD AWARD LECTURE

Speaker: Palmer Taylor

BERNARD B. BRODIE AWARD LECTURE

Speaker: TBA at www.aspet.org

P.B. DEWS AWARD LECTURE

Speaker: TBA at www.aspet.org

**PAUL M. VANHOUTTE DISTINGUISHED AWARD LECTURE IN
VASCULAR PHARMACOLOGY**

Speaker: TBA at www.aspet.org

SPECIAL SESSIONS

**RAY FULLER SYMPOSIUM: Epigenetic Mechanisms of Learning
and Memory**

Chair: Eric Nestler

**JULIUS AXELROD SYMPOSIUM: Signature Based Drug Design
in the Nervous System**

Chair: Palmer Taylor

**Graduate Student-Postdoctoral Colloquium: Leadership: Skills,
Styles, and Self-Awareness**

Chairs: Suzanne B. Bausch and Meera Sridharan

**2010 Teaching Institute: Simulation in Pharmacology
Education: Going Beyond Mannequins**

Chair: Lynn Crespo

ASPET's Women in Pharmacology Committee Workshop

Chair: Carol Paronis

**Diversity Committee Workshop: Traditional and Alternative
Career Paths in Rough Economic Times**

Chair: Martha Davila-Garcia

Behavioral Pharmacology Society Meeting

Contact a BPS Member or Nancy Ator at ator@jhmi.edu regarding an invitation.

EB-SPONSORED SESSIONS

TEACHING POSTER SESSIONS

Recognizing that techniques and issues related to teaching and the use of computers in research and teaching cross all biomedical disciplines, EB 2010 will combine education posters from all participating societies into two special poster sessions. Although posters will be on display during exhibit hours Sunday through Tuesday, authors are required to be present at their posters during an assigned day and time for demonstration, which will be listed in the Program. Authors must prepare standard-sized posters in addition to their demonstrations.

Computers in Research and Teaching – Topic Category 8100-EB

Demonstrate collegial (not for sale) software for research and teaching purposes. A special area of the exhibit hall will have poster boards and provisions for both IBM PC compatible and Mac computers with Internet access. Authors are encouraged to bring laptops. For more information, please contact Dr. Jerry Collins at 2113 Timberwood Place, Nashville TN 37215, telephone 615-243-5535 (cell), email: jerry@bothcollinses.com.

Teaching, Learning and Testing in the Biological and Biomedical Sciences – Topic Category 8200-EB

This is for all teaching/education related posters, regardless of discipline, that do not require a computer. Posters describing any aspect of teaching and learning in the biological and biomedical sciences should be submitted to this category. For presentations that involve a demonstration, authors are encouraged to bring the actual materials that they use for teaching. Tables and electrical outlets will be available at each poster board for demonstrations.

SPECIAL JOINT LECTURE

The Scientific Foundations for Future Physicians Report and Its Implications for Medical and Premedical Education

Date: Monday, April 26, 12:45-2:00PM

Chair: Dee U. Silverthorn, Ph.D. (APS, AAA)

The topic of the symposium will be the report *Scientific Foundations for Future Physicians* recently released by the Howard Hughes Medical Institute and the Association of American Medical Colleges. This report is expected to have an impact on both medical and premedical education, and the symposium will disseminate its contents and provide an opportunity for attendees to discuss and comment on its content.

The 22-member committee that formulated the report included eight members representing nine FASEB societies. Members of most FASEB societies who teach in medical or undergraduate settings should be interested in the topic.



ABSTRACT INFORMATION AND USING THE TOPIC CATEGORIES

ABSTRACT DEADLINE:

Wednesday, November 4, 2009

Abstract Processing Fee: \$65

Before you submit your abstract, please read the Rules and Guidelines for Abstract Submission at www.experimentalbiology.org

The topic that you select from the topic category list determines which society receives and programs your abstract. Therefore, it is important that you review the society topic categories on pages 28-43 or at www.experimentalbiology.org before submitting your abstract. Please follow the guidelines below.

ABSTRACT PROGRAMMING:

Help us program your abstract correctly

Each society has its own list of topics. You may choose a topic from any society listing. Please begin by searching for all related topic categories at www.experimentalbiology.org.

Remember which society is programming your abstract

- Your abstract will be received and programmed by the society that lists your topic choice.
- Each society uses a different programming method – your abstract may go to a program committee or to a session chair.
- Knowing which society is programming your abstract makes follow-up easier.

Indicate your preference for oral or poster presentation

- While the programming society makes the final decision about whether you will make an oral or poster presentation, it is important to indicate your preference on the submission form.
- For all societies, abstracts not selected for oral presentation will be programmed as posters. For APS and ASBMB all abstracts selected for oral presentation must also be presented as posters.
- Submitting to a minisymposium or featured topic is not necessarily an automatic request for oral presentation. You may request a poster presentation when submitting to a minisymposium or featured topic.
- AAA hybrid symposia and platform sessions (formerly called minisymposia) are only oral presentations. Abstracts not selected will be programmed as posters.

IMPORTANT PROCEDURAL INFORMATION

- The abstract fee is not your registration fee and not your society membership fee.
- In addition to submitting your abstract, you must register for the meeting.
- After submitting your abstract, you must submit a separate application if you wish to apply for any of the Society awards and follow the process required by the society.
- The complete Call for Abstracts and general information is available at www.experimentalbiology.org

For general questions, contact the society responsible for programming your abstract:

American Association of Anatomists (AAA)

Phone: 301-634-7910; Fax: 301-634-7965
Email: exec@anatomy.org

The American Physiological Society (APS)

Phone: 301-634-7967; Fax: 301-634-7264
Email: meetings@the-aps.org

American Society for Biochemistry and Molecular Biology (ASBMB)

Phone: 301-634-7145
Email: meetings@asbmb.org

American Society for Investigative Pathology (ASIP)

Phone: 301-634-7130; Fax: 301-634-7990
Email: meetings@asip.org

American Society for Nutrition (ASN)

Phone: 301-634-7051; Fax: 301-634-7892
Email: ameyers@nutrition.org

American Society for Pharmacology and Experimental Therapeutics (ASPET)

Phone: 301-634-7066; Fax: 301-634-7061
Email: cwygal@aspet.org

Notification of Programming

The first author and the sponsor will be notified via email in mid-February of:

- Title, date, and time of session in which abstract has been programmed
- Format of presentation (oral, poster or both)
- Program number
- Presentation time

This information will not be available prior to February. It will be emailed prior to the February 24, 2010 early registration deadline. Co-authors will not receive notification.

Poster Policy

- Presenters must mount their posters no later than 8:30AM on their day of presentation.
- The exhibit hall opens at 7:00AM to mount posters.
- Presenters are expected to be at their poster boards during the assigned session presentation time, as designated by each society.
- Posters must remain on display all day from 8:30AM – 5:00PM (except on Wednesday.)
- Posters that do not remain on display all day during their assigned day may at the discretion of the programming society, be ineligible for awards.
- Recording (photographing, audio taping or videotaping) any presentation/session is PROHIBITED, except by an EB-authorized agent or by First Authors who want to photograph their poster presentation.

E-Posters

All poster authors are invited to upload their poster to the EB website. The e-posters will be accessible to all registered attendees for viewing after the meeting. Instructions for uploading your poster will be sent with your poster confirmation in February.

TOPIC CATEGORIES - ANATOMY

SPECIAL INSTRUCTIONS

AAA invites you to submit an abstract for a hybrid symposium, platform, or poster presentation. A hybrid symposium includes two invited talks and four 15-minute oral presentations selected from abstracts; a platform session includes eight 15-minute oral presentations selected from abstracts. Abstracts not programmed in a hybrid symposium or platform session will be scheduled for an appropriate poster session.

HYBRID SYMPOSIA & PLATFORM & SESSIONS (ORAL presentations)

- 7000-AAA Anatomy Teaching in an Integrated Curriculum
7001-AAA Development & Epigenetic Influences on Development
7002-AAA Digital Technologies in Anatomical Reconstruction: Rebuilding the Past and Engineering the Future
7003-AAA Endothelial Tip Cell Guidance & Mechanisms
7004-AAA Functional Human Anatomy
7005-AAA Neural Development, Structure & Disease
7006-AAA New Trends in Cardiac & Vascular Biology
7007-AAA Reactive Oxygen Species: Bench to Bedside
7008-AAA Regenerative Medicine/Wound Healing
7009-AAA Stem Cells
7010-AAA Teaching Innovations in Anatomy**

** "Teaching Innovations in Anatomy" is an AAA platform session with ORAL presentations. If you prefer to do a poster presentation, consider one of the Anatomy Education sessions listed below or the EB teaching sessions described on page 26.

- 7011-AAA ANATOMY**
7012-AAA Anatomy: Animal Models
7013-AAA Anatomy: Forensics
7014-AAA Anatomy: Form and Variation
7015-AAA Anatomy: Mathematical Modeling
7016-AAA Anatomy: Muscle

- 7017-AAA ANATOMY EDUCATION**
7018-AAA Anatomy Education: Assessment, Curriculum & Mentoring
7019-AAA Anatomy Education: Clinical Based Learning
7020-AAA Anatomy Education: Computer-Assisted Learning
7021-AAA Anatomy Education: Educational Research
7022-AAA Anatomy Education: Teaching Methods & Innovations
7023-AAA Anatomy Education: Translational Medicine

- 7024-AAA BONES, CARTILAGE & TEETH**
7025-AAA Bones, Cartilage & Teeth: Aging, Disease & Cancer
7026-AAA Bones, Cartilage & Teeth: Anatomy and Morphology

- 7027-AAA Bones, Cartilage & Teeth: Biomechanics; Bioengineering
7028-AAA Bones, Cartilage & Teeth: Cartilage
7029-AAA Bones, Cartilage & Teeth: Craniofacial
7030-AAA Bones, Cartilage & Teeth: Development
7031-AAA Bones, Cartilage & Teeth: Evolution & Anthropology
7032-AAA Bones, Cartilage & Teeth: Imaging and Analysis
7033-AAA Bones, Cartilage & Teeth: Stem Cells, Cell and Molecular Biology

- 7034-AAA CARDIOVASCULAR BIOLOGY**
7035-AAA Cardiovascular Biology: Anatomy & Morphology
7036-AAA Cardiovascular Biology: Angiogenesis; Lymphangiogenesis; Vasculogenesis
7037-AAA Cardiovascular Biology: Animal Models
7038-AAA Cardiovascular Biology: Biomechanics; Bioengineering
7039-AAA Cardiovascular Biology: Development
7040-AAA Cardiovascular Biology: Dysfunction; Disease; Genetic Disorders
7041-AAA Cardiovascular Biology: Live Imaging
7042-AAA Cardiovascular Biology: Stem Cells, Cell & Molecular Biology

- 7043-AAA CELL BIOLOGY**
7044-AAA Cell Biology: ECM, Cells & EMT
7045-AAA Cell Biology: Imaging
7046-AAA Cell Biology: Membranes, Organelles, Cilia & Flagellae
7047-AAA Cell Biology: Scaffold Attachment; Response to Biomaterials
7048-AAA Cell Biology: Signaling & Molecular Biology

- 7049-AAA EXTRACELLULAR MATRIX**
7050-AAA Extracellular Matrix: Cancer & Metastasis
7051-AAA Extracellular Matrix: Remodeling

- 7052-AAA GROWTH & DEVELOPMENT**
7053-AAA Growth & Development: Animal Models
7054-AAA Growth & Development: Cell Migration
7055-AAA Growth & Development: Gene and Protein Expression
7056-AAA Growth & Development: Head & Face
7057-AAA Growth & Development: Imaging
7058-AAA Growth & Development: Limb Development & Regeneration
7059-AAA Growth & Development: Reproduction

- 7060-AAA IMAGING**
7061-AAA Imaging: Anatomy
7062-AAA Imaging: Computational Analysis
7063-AAA Imaging: Functional Imaging
7064-AAA Neurobiology

7065-AAA Neurobiology: Anatomy & Morphology
 7066-AAA Neurobiology: Behavior; Neuropsychiatric Disorders; Disease; Aging
 7067-AAA Neurobiology: Central, Peripheral & Autonomic Systems
 7068-AAA Neurobiology: Neuroimaging
 7069-AAA Neurobiology: Neuronal & Spinal Cord Degeneration, Repair & Regeneration
 7070-AAA Neurobiology: Neuroprotection & Neuroimmunology
 7071-AAA Neurobiology: Sensory Systems
 7072-AAA Neurobiology: Stem Cells; Cell Biology; Molecular Mechanisms

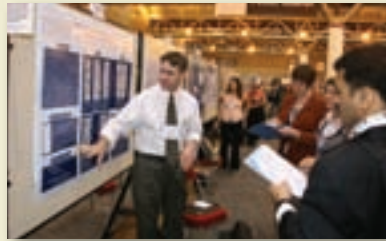
7073-AAA REGENERATIVE MEDICINE
 7074-AAA Regenerative Medicine: Organ & Tissue Regeneration
 7075-AAA Regenerative Medicine: Stem Cells
 7076-AAA Regenerative Medicine: Translational Research

7077-AAA STEM CELLS
 7078-AAA Stem Cells: Aging & Disease
 7079-AAA Stem Cells: Muscle
 7080-AAA Stem Cells: Perinatal
 7081-AAA Stem Cells: Postnatal
 7082-AAA Stem Cells: Prenatal
 7083-AAA Stem Cells: Reprogramming
 7084-AAA Stem Cells: Wound Healing & Repair

7085-AAA TISSUE ENGINEERING

7086-AAA WOUND HEALING

7087-AAA BIOLOGICAL ANTHROPOLOGY



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TOPIC CATEGORIES - PHYSIOLOGY

CARDIOVASCULAR SECTION

FEATURED TOPICS:

(NOTE: if selected for inclusion in a featured topic, abstracts will be presented twice: once as a poster and once in the oral session)

- 1001-APS Physiological Role of Vascular Endothelial Growth Factors as Homeostatic Regulators (Bates)
- 1002-APS Extracellular Matrix and Pathology of Cardiovascular Disease (Gardner/Lucchesi)
- 1003-APS Wiggers Award Featured Topic: Hypertension, Inflammation and Adaptive Immunity (Lombard/Harrison)
- 1004-APS Reactive Oxygen Species in Vascular Tone and Remodeling (Miller)
- 1005-APS Coordinate Regulation of Vascular Smooth Muscle Gene Expression, Cell Phenotype, and Vessel Function (Pearce)
- 1006-APS Cardiovascular Consequences of the Metabolic Syndrome (Stepp/Frisbee)
- 1007-APS Translational Research in Metabolic Syndrome and Cardiovascular Disease: Swine vs. Mouse Models (Sturek)
- 1008-APS Matrix Metalloproteinases in Mitochondrial, Cytoskeletal and Nuclear Remodeling (Tyagi)
- 1009-APS Regulation of Vascular Caliber and Contractility (van Bavel/Hill)

POSTERS:

- 1010-APS Angiogenesis and vascular growth
- 1011-APS Blood Pressure Regulation
- 1012-APS Cardiac Electrophysiology
- 1013-APS Cardiac Function and Dynamics
- 1014-APS Cerebral Circulation
- 1015-APS Coronary Circulation
- 1016-APS Diabetes and Insulin Resistance
- 1017-APS Endothelial Cell Biology
- 1018-APS Free Radical Signaling and Injury
- 1019-APS Gene Expression and Cardiovascular Function
- 1020-APS Genetic Models of Cardiovascular Function
- 1021-APS Hypertension
- 1022-APS Microcirculation
- 1023-APS Myocardial Ischemia/Myocardial Metabolism
- 1024-APS Nitric Oxide/Carbon Monoxide/Vasoactive Molecules
- 1025-APS Oxidized Lipids/Oxidant Stress
- 1026-APS Peripheral Circulation
- 1027-APS Shock
- 1028-APS Vascular Pathobiology
- 1029-APS Vascular Smooth Muscle

THE MICROCIRCULATORY SOCIETY

POSTERS:

- 1030-APS Angiogenesis/Microvascular Remodeling/ Injury & Repair
- 1031-APS Atherosclerosis/Thrombosis/Platelets
- 1032-APS Inflammation/Leukocyte-Endothelium Interactions
- 1033-APS Instrumentation and Live Cell Imaging
- 1034-APS Ischemia-Reperfusion/Free Radical Biology
- 1035-APS Lymphatic and Venular Function
- 1036-APS Microvascular Molecular Biology/Genetic Approaches
- 1037-APS Microvascular Development and Aging
- 1038-APS Microvascular Flow Regulation/Oxygen Delivery/Networks
- 1039-APS Microvascular Mechanics/Hemodynamics/ Rheology
- 1040-APS Microvascular Pathophysiology/Tumor Microcirculation
- 1041-APS Microvascular Cell Signaling Pathways
- 1042-APS Pericytes and Stem Cells
- 1043-APS Permeability/Fluid and Solute Exchange/ Glycocalyx
- 1044-APS Microvascular Pharmacology/Therapeutics
- 1045-APS Tissue-Microvessel Interactions/Extracellular Matrix
- 1046-APS Vasomotor Control: Endothelium/Smooth Muscle/Nerves

BIOMEDICAL ENGINEERING SOCIETY

POSTERS:

- 1047-APS Bioelectricity and Electrophysiology
- 1048-APS Biofluid Mechanics
- 1049-APS Biomaterials
- 1050-APS Biotransport Phenomena
- 1051-APS Mathematical Models of Organ Systems, Tissues or Cells
- 1052-APS New Approaches to Biomedical Data Analysis
- 1053-APS New Approaches to Biomedical Experimentation
- 1054-APS Physiological Systems Analysis
- 1055-APS Tissue Engineering

CELL & MOLECULAR PHYSIOLOGY SECTION

FEATURED TOPICS:

(NOTE: if selected for inclusion in a featured topic, abstracts will be presented twice: once as a poster and once in the oral session)

- 1056-APS Epithelial Barrier Function in Inflammatory Bowel Diseases (Fromm)
1057-APS Caveolar Microdomains, Signaling and Disease (Insel)
1058-APS Myofibroblast Functions during Fibrosis and Cancer Spreading (Morrison)

POSTERS:

- 1059-APS Apoptosis and Cell Death
1060-APS ATPase Ion Pumps
1061-APS Caveolin, Lipid Rafts and Membrane Domains
1062-APS Cell Dynamics: Trafficking, Cytoskeleton, and Mechanosensation
1063-APS Cell Volume, Osmoregulation and Water Transport
1064-APS Cellular Scaffolds
1065-APS Cellular Signaling: Second Messengers, Extracellular Matrix, Cell-Cell Interaction
1066-APS Epithelial Cell Polarity and Barrier Function
1067-APS Intracellular pH and Acid-Base Transport
1068-APS Ion Channels
1069-APS Membrane Dynamics: Domains and Lipid Rafts
1070-APS Oxidative Stress Biology
1071-APS Stem Cells and Cell Growth, Development and Differentiation
1072-APS Transporters: Ions, Transmitters, Nutrients, Metabolites and Drugs

CENTRAL NERVOUS SYSTEM SECTION

FEATURED TOPICS:

(NOTE: if selected for inclusion in a featured topic, abstracts will be presented twice: once as a poster and once in the oral session)

- 1073-APS Angiogenesis, Neurogenesis and Brain Recovery from Injury (Barone/Chopp)
1074-APS CNS Regulation of Body Temperature (Morrison)

POSTERS:

- 1075-APS Behavioral and Cognitive Neuroscience
1076-APS Biological Rhythms and Sleep/Wake States
1077-APS Blood-Brain Barrier, Brain Blood Flow and Metabolism
1078-APS Cerebral Ischemia/Neuroinflammation/Neuroprotection
1079-APS CNS Regulatory Systems
1080-APS Development and Aging in the CNS
1081-APS Neurodegenerative and Neurotoxic Disorders
1082-APS Neuroendocrinology/Neuroimmunology
1083-APS Neuronal Excitability (Ion Channels, Transporters)
1084-APS Neuroplasticity
1085-APS Neurotransmission and Signaling Molecules
1086-APS Other Neurobiology
1087-APS Regulation of Food Intake and Body Weight by the CNS

COMPARATIVE & EVOLUTIONARY PHYSIOLOGY SECTION

FEATURED TOPICS:

(NOTE: if selected for inclusion in a featured topic, abstracts will be presented twice: once as a poster and once in the oral session)

- 1088-APS Physiological Biomechanics (McHenry)
1089-APS Comparative Metabolic Physiology (Sweazea)

POSTERS:

- 1090-APS Comparative and Evolutionary Biochemistry
1091-APS Comparative and Evolutionary Cardiovascular Physiology
1092-APS Comparative and Evolutionary Developmental Physiology
1093-APS Comparative and Evolutionary Endocrinology
1094-APS Comparative and Evolutionary Muscular and Locomotor Physiology
1095-APS Comparative and Evolutionary Neuroscience and Behavior
1096-APS Comparative and Evolutionary Nutritional and Digestive Physiology
1097-APS Comparative and Evolutionary Osmotic and Ionic Physiology
1098-APS Comparative and Evolutionary Physiology of Aging
1099-APS Comparative and Evolutionary Physiology of Body Size (Scaling)
1100-APS Comparative and Evolutionary Physiology of Metabolism and Energetics
1101-APS Comparative and Evolutionary Respiratory and Acid-Base Physiology
1102-APS Comparative and Evolutionary Thermal Biology

ENDOCRINOLOGY & METABOLISM SECTION

FEATURED TOPICS:

(NOTE: if selected for inclusion in a featured topic, abstracts will be presented twice: once as a poster and once in the oral session)

- 1104-APS Sarcopenia: Signal Transduction and Metabolism in Senescent Skeletal Muscle (Reynolds)
1105-APS Membrane Estrogen Receptors (Samson/Levin)

POSTERS:

- 1106-APS Cardiovascular Endocrinology, Including Renin-Angiotensin-Aldosterone
1107-APS Connective Tissue and Bone Metabolism
1108-APS Gestational, Fetal, and Neonatal Biology, Including Mammary Gland and Lactation
1109-APS Growth, Growth Hormone, IGF, and Thyroid
1110-APS Reproduction and Sex Hormones
1111-APS Neuroendocrinology, Hypothalamus and Pituitary
1112-APS Immunoendocrinology
1113-APS Insulin, Glucagon and Other Pancreatic Hormones
1114-APS Lipid, Lipoprotein and Cholesterol Metabolism

1115-APS	Stress and Trauma Including Adrenal Gland
1116-APS	Obesity and Satiety
1117-APS	Protein, Amino Acid and Carbohydrate Metabolism

ENVIRONMENTAL & EXERCISE PHYSIOLOGY SECTION

FEATURED TOPICS:

(NOTE: if selected for inclusion in a featured topic, abstracts will be presented twice: once as a poster and once in the oral session)

1118-APS	Cerebral Challenges and Consequences of Exercise (Chevuront)
1119-APS	Endocrine Adaptations to Exercise: How Important is Energy Balance? (Farrell)
1120-APS	Cardiovascular Adjustments at High Altitude (Sander)

POSTERS:

1121-APS	Altitude and Hypoxia
1122-APS	Cardiovascular Responses to Exercise
1123-APS	Circadian and Biological Timekeeping
1124-APS	Diving and Hyperbaria
1125-APS	Exercise Metabolism and Locomotion
1126-APS	Exercise Responses and Training
1127-APS	Fever and Hypothermia
1128-APS	Gravitational and Space
1129-APS	Metabolism in Muscle
1130-APS	Muscle Plasticity and Gene Regulation/Expression
1131-APS	Neural Control of the Circulation during Exercise
1132-APS	Physiological Adaptations to Inactivity
1133-APS	Respiratory Responses to Exercise
1134-APS	Signaling in Muscle
1135-APS	Temperature Regulation and Fluid Balance

EPITHELIAL TRANSPORT GROUP

FEATURED TOPICS:

(NOTE: if selected for inclusion in a featured topic, abstracts will be presented twice: once as a poster and once in the oral session)

1136-APS	Regulation of Epithelial Ion and Water Channels
1137-APS	Regulation of Epithelial Transporters

POSTERS:

1138-APS	Accessory Proteins, Molecular Chaperones, PDZ Domain Proteins, Signaling Complexes, Lipid Rafts
1139-APS	Drug Delivery
1140-APS	Epithelial Development, Polarity, Differentiation
1141-APS	Epithelial Transporters
1142-APS	Ion Channels: Ca, Na, K, Cl, Others
1143-APS	Paracellular Permeability
1144-APS	Water Channels

GASTROINTESTINAL & LIVER PHYSIOLOGY SECTION

FEATURED TOPICS:

(NOTE: if selected for inclusion in a featured topic, abstracts will be presented twice: once as a poster and once in the oral session)

1145-APS	Gastrointestinal Development and Disease (Clark/Uno)
1146-APS	Novel Gastrointestinal Nutrient Sensors (Crozier/Raybould)

POSTERS:

1147-APS	Endoplasmic Reticulum Stress in the GI Tract and Liver
1148-APS	Vitamin, Trace Element, and Metal Ion Transport
1149-APS	Epithelial Homeostasis in Gastrointestinal Cancer and Metastasis
1150-APS	Alcoholic and Nonalcoholic Fatty Liver Diseases
1151-APS	Gastric Physiology and Pathophysiology
1152-APS	Gastrointestinal Motility
1153-APS	GI Hormones, Peptides and Receptors
1154-APS	Growth Factors, Proliferation, Differentiation and Apoptosis
1155-APS	Immunology and Microbiology of the Gut
1156-APS	Hepcidin and Iron Homeostasis
1157-APS	Intestinal Inflammation and Pathophysiology
1158-APS	Liver Physiology and Pathophysiology
1159-APS	Protein Secretion in the GI Tract and Liver
1160-APS	Mechanisms of Intestinal Transport
1161-APS	Barrier Function and repair
1162-APS	Pancreatic Physiology and Pathophysiology

HISTORY OF PHYSIOLOGY GROUP

FEATURED TOPIC:

(NOTE: if selected for inclusion in a featured topic, abstracts will be presented twice: once as a poster and once in the oral session)

1168-APS	History of Comparative Physiology (Goldstein)
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POSTERS:

1169-APS	History of Physiology
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HYPOXIA GROUP

FEATURED TOPICS:

(NOTE: if selected for inclusion in a featured topic, abstracts will be presented twice: once as a poster and once in the oral session)

1170-APS	Hypoxic Effects on Cardio-Respiratory Function and Integration (Morris)
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POSTERS:

1171-APS	Altitude
1172-APS	Carotid Body
1173-APS	Gene expression/Transcription Factors
1174-APS	Hypoxia/Second Messengers
1175-APS	Hypoxic Pulmonary Vasoconstriction
1176-APS	Intermittent Hypoxia/Oxidative Stress

1177-APS	Ion Channels
1178-APS	Oxygen Sensor
1179-APS	Signal Transduction
1180-APS	Transmitters

MUSCLE BIOLOGY GROUP

FEATURED TOPICS:

(NOTE: if selected for inclusion in a featured topic, abstracts will be presented twice: once as a poster and once in the oral session)

1181-APS	PGC-1alpha in Health, Exercise and Disease (Hood)
1182-APS	Hyperkalemic and Hypokalemic Periodic Paralysis in Skeletal Muscle: New Insight from New Mouse Models (Renaud)

POSTERS:

1183-APS	Aging and Muscle Function
1184-APS	Calcium and Muscle Contractility
1185-APS	Calcium Homeostasis
1186-APS	Cardiac Muscle, Physiology
1187-APS	Contractile and Regulatory Proteins
1188-APS	Excitation-Contraction Coupling Mechanisms
1189-APS	Heat Shock Proteins and Muscle Function
1190-APS	Muscle Chemistry and Metabolism
1191-APS	Skeletal Muscle, Physiology
1192-APS	Smooth Muscle, Physiology/Pharmacology

NEURAL CONTROL & AUTONOMIC REGULATION SECTION

FEATURED TOPICS:

(NOTE: if selected for inclusion in a featured topic, abstracts will be presented twice: once as a poster and once in the oral session)

1193-APS	The Brain, Behavior and Autonomic Function in Health and Disease (Grippio/Moffitt)
1194-APS	Neural Mechanisms of Sympathetic Activation in Cardiovascular Diseases (Pan)
1195-APS	Mitochondrial Oxidants and Antioxidants in Autonomic Regulation and Cardiovascular Function (Zimmerman)

POSTERS:

1196-APS	Central Autonomic Regulation
1197-APS	Neural Control of Cardiorespiratory Function
1198-APS	Neural Control of Cardiovascular Function
1199-APS	Neural Control of Renal Function
1200-APS	Neural Mechanisms in Cardiovascular Disease

PHYSIOLOGICAL GENOMICS GROUP

FEATURED TOPICS:

(NOTE: if selected for inclusion in a featured topic, abstracts will be presented twice: once as a poster and once in the oral session)

1201-APS	Molecular Mechanisms and Genetics of Hypertension (Quinn/Dominiczak)
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POSTERS:

1202-APS	Adaptation and Control of Gene Expression
1203-APS	Genomics and Genetics: Characterization and Modification
1204-APS	Physiological Genomics of Endocrine, Metabolism, and the Gastrointestinal System
1205-APS	Physiological Genomics of Respiration and Skeletal Muscles
1206-APS	Physiological Genomics of the Cardiovascular and Renal System
1207-APS	Physiological Genomics of the Nervous System
1208-APS	siRNA, microRNA (miRNA), and other Small Regulatory RNA
1209-APS	Systems Biology, Computational Modeling, and Bioinformatics
1210-APS	Transcriptome, Proteomics, and Metabolomics

RENAL SECTION

FEATURED TOPICS:

Based on the quality and quantity of submissions, selected abstracts may be programmed into an oral featured topic session. Abstracts programmed into oral sessions will be presented twice: as a poster and in the oral session.

POSTERS:

1211-APS	Diabetic Renal Disease
1212-APS	Hormone and Autocoid Effects on the Kidney
1213-APS	Oxidative Stress and the Kidney
1214-APS	Renal Epithelial Acid-Base Mechanisms
1215-APS	Renal Hemodynamics and Glomerular Filtration Rate
1216-APS	Renal Ion Transport, Trafficking, and Regulation
1217-APS	Renal Organic Solute Transport
1218-APS	Renal Pathology, Toxicology, and Cystic Diseases
1219-APS	Renal Water Transport, Urea transport, and Countercurrent Mechanisms
1220-APS	Sex Differences in Renal Function and Disease

RESPIRATION SECTION

FEATURED TOPICS:

(NOTE: if selected for inclusion in a featured topic, abstracts will be presented twice: once as a poster and once in the oral session)

- 1221-APS Mechanisms of Peripheral Chemoreception (Mulkey)
1222-APS Hyperoxia- and Reactive Oxygen Species-Induced Stress in the Lung (Parthasarathi/Waters)
1223-APS Age, Sex, and Control of Breathing (Schlenker)
1224-APS Pulmonary Hypertension: Mechanisms and Mediators (Shimoda/Resta)

POSTERS:

- 1225-APS Lung Physiology: Airway Epithelial Cell Biology
1226-APS Lung Physiology: Airway Responsiveness and Smooth Muscle Cell Biology
1227-APS Lung Physiology: Alveolar Epithelial Cell Biology
1228-APS Lung Physiology: Genetics and Genomics
1229-APS Control of Breathing: Central Connectivity and Neurotransmission
1230-APS Control of Breathing: Chemoreception
1231-APS Control of Breathing: Development
1232-APS Control of Breathing: Integrated Responses
1233-APS Control of Breathing: Rhythm Generation
1234-APS Lung Physiology: Endothelial Cell Biology
1235-APS Lung Physiology: Cell and Tissue Mechanics and Gas Exchange
1236-APS Lung Physiology: Development, Stem Cells and Plasticity
1237-APS Lung Physiology: Fluid Balance
1238-APS Lung Physiology: Surfactant
1239-APS Lung Physiology: Pulmonary Hypertension
1240-APS Lung Physiology: Hemodynamics, Microcirculation and Vascular Regulation
1241-APS Lung Physiology: Cell Signaling Pathways
1242-APS Lung Physiology: Vascular Smooth Muscle Cell Biology

TEACHING OF PHYSIOLOGY SECTION

FEATURED TOPICS:

(NOTE: if selected for inclusion in a featured topic, abstracts will be presented twice: once as a poster and once in the oral session)

- 1243-APS Helping Students Put the Pieces Together: Fostering Integrative Learning of Physiology (Cliff)

POSTERS:

- 1244-APS Innovations in Teaching Cardiovascular Physiology

WATER & ELECTROLYTE HOMEOSTASIS SECTION

FEATURED TOPICS:

(NOTE: if selected for inclusion in a featured topic, abstracts will be presented twice: once as a poster and once in the oral session)

- 1245-APS Sex Steroids in Cardiovascular-Renal Physiology and Pathophysiology (Alexander/Korzick)
1246-APS Neural Control of Blood Pressure and Fluid Volume Homeostasis: Sodium Metabolism (Cunningham)
1247-APS Autoregulation and Renal Injury (Drummond)

POSTERS:

- 1248-APS Inflammatory Mediators in Control of Cardiovascular and Renal Function
1249-APS Neural Control of Blood Pressure and Fluid Volume Homeostasis
1250-APS Renin-Angiotensin System in Regulation of Blood Pressure and Renal Function
1251-APS Sex Steroids in Cardiovascular-Renal Physiology
1252-APS Water and Electrolyte Homeostasis



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TOPIC CATEGORIES - BIOCHEMISTRY AND MOLECULAR BIOLOGY

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DNA TRANSACTIONS THEME

DNA Synthesis and Mutagenesis

Replication Fork Dynamics

DNA Damage Signaling and Repair

The 3Rs, Genome Instability, and Disease

DNA Enzymes

DNA Repair Mechanisms

DNA Replication Mechanisms

DNA Replication Origins

Genome Diversity and DNA Recombination

Genome Stability and DNA Repair

Inhibitors of DNA Transactions

Mechanism of DNA Recombination

Regulation of Translesion Synthesis

Replicases and Replisomes

Replication Initiation

Signaling Responses to DNA Damage

Telomeres and Telomerase

Translesion and Error-Prone

DNA Polymerases

2020-ASBMB

2021-ASBMB

2022-ASBMB

DNA

DNA Structure

Probes of DNA Conformation

2030-ASBMB

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CHROMATIN AND TRANSCRIPTION THEME

Chromatin Modifications

Transcription Initiation and Elongation

Chromatin Structure and Remodeling

Co-transcriptional Processing

Chromatin Recognition and Assembly

Chromatin Structure in Gene Activation

Covalent Modifications of Histones and DNA

Dynamics of Transcription

Factors involved in Co-transcriptional

pre-mRNA Processing

Functions of Mediator in Transcriptional

Regulation

Mechanisms of Chromatin Remodeling

Non-coding RNAs in Gene Regulation and

Chromosome Structure

RNA Polymerase Structure and Mechanisms

Transcription Factors

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Transcriptional Assemblies and Mechanisms

Transcriptional Regulation

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BIOLOGICAL CHEMISTRY OF RNA THEME

Posttranscriptional Gene Regulation

Ribosome Assembly and Function

Splicing Mechanism and Regulation

Ribozyme Structure and Catalysis

3' End Formation

Alternative Splicing

Molecular Recognition of RNA

Non-coding RNAs

Ribonucleoproteins

Riboregulation

Ribosome and Translation

Riboswitches

RNA Editing and Modification

RNA Folding

RNA Interference

RNA Processing

RNA Structure and Dynamics

RNA Therapeutics

RNA Transport and Localization

RNA Turnover

RNA-Protein Interactions

RNP Biogenesis

Small RNAs

Translational Control

Viral RNAs and Virus Structure

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PROTEIN SYNTHESIS, CATALYSIS AND TURNOVER THEME

Protein Synthesis: Mechanism and Regulation

Protein Synthesis: Translation in Medicine

Protein Turnover: Tagging Substrates for Ubiquitination

Protein Turnover: Function and Regulation of the 26S Proteasome

Chaperones

Enzyme Inhibitors

Enzyme Kinetics

Enzyme Mechanism

Enzymes as Drug Targets

Genetic Studies of Protein Synthesis

Macromolecular Folding and Fluctuations

Molecular Chaperones: Mechanism

and Function

Multienzyme Complexes

Photochemical Sensors

Protease: Structure and Regulation

Proteases in Disease

2093-ASBMB

2094-ASBMB

2095-ASBMB

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2097-ASBMB Proteasomes: Structure, Regulation and Therapeutics
 2098-ASBMB Protein Folding and Misfolding
 2099-ASBMB Protein Interactions in Catalysis
 2100-ASBMB Protein Synthesis in Organelles
 2101-ASBMB Protein Targeting
 2102-ASBMB Protein Turnover and Quality Control
 2103-ASBMB Protein Turnover in Cell Regulation
 2104-ASBMB Proteolytic Enzymes and Inhibitors
 2105-ASBMB Regulation and Allosterism
 2106-ASBMB Ribosome and Translation
 2107-ASBMB Structural Enzymology
 2108-ASBMB Structural Enzymology of Membrane Proteins
 2109-ASBMB Thermodynamics and Design
 2110-ASBMB tRNA Synthetases: Structure, Mechanism and Evolution
 2111-ASBMB Ubiquitin: Pathways, Targeting, and Pathogenesis

METABOLISM

2120-ASBMB LIPID INTERACTIONS IN PHYSIOLOGY AND DISEASE THEME
 2121-ASBMB **Emerging Concepts in the Physiology and Pathology of Lipid Metabolism**
 2122-ASBMB **Novel Approaches for Studying Lipid Signaling, Metabolism, and Membranes**
 2123-ASBMB **Cellular Lipid Movement and Compartmentalized Metabolism**
 2124-ASBMB **Structure and Regulation of Lipid Transporters and Metabolizing Enzymes**
 2125-ASBMB Biochemistry and Physiology of Plant Lipids
 2126-ASBMB Biophysical Properties of Lipids and Membranes
 2127-ASBMB Chemical Probes of Lipid Systems
 2128-ASBMB Enzymology of Lipid Metabolizing Enzymes
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 2134-ASBMB Lipids and Control of Gene Expression
 2135-ASBMB Lipids and Inflammation
 2136-ASBMB Non-animal Genetic Models of Lipid Metabolism
 2137-ASBMB Nuclear Lipid Signaling
 2138-ASBMB Organelle Lipid Biosynthesis
 2139-ASBMB Pharmacological Targets in Lipid Metabolism
 2140-ASBMB Phosphatidylcholine and Phosphatidic Acid Signaling
 2141-ASBMB Phosphatidylinositol Signaling
 2142-ASBMB Protein-Lipid Interactions
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GLYCOBIOLOGY AND EXTRACELLULAR MATRIX

Glycans in Development and Disease
 Glycans in Pathogenic Protozoa
 Plant Cell Wall Biosynthesis and Function
 Protein-Glycan Functional Interactions

STRUCTURE, FUNCTION, AND BIOGENESIS OF CELL MEMBRANES

Lipid Domains and Lipid Rafts
 Membrane Protein Synthesis, Insertion and Assembly
 Protein-Lipid Interactions as Determinants of Function
 Structure and Function of Transport Proteins and Channels
 Structure, Function, and Biogenesis of Cell Membranes
 Vesicular Trafficking

METABOLISM AND DISEASE THEME

Quantitative Metabolomics and Disease
Sirtuins, Metabolism and Aging
Nutrient Regulation of Signaling and Transcription
Metabolism and Epigenetics
 Aging and Metabolism
 Genetic and Metabolic Approaches to Obesity
 Metabolic Networks
 Metabolic Regulation
 Metabolism and Cancer
 Metabolism and Diabetes
 Metabolism and Neurodegeneration
 Metabolism and Nutrition
 Metabolism and Protein Translation
 Metabolism and Signaling
 Metabolism and Transcription
 Metabolomics
 Mitochondria in Health and Disease
 Nuclear Receptors in Metabolic Syndromes

HYPERTENSION: TREATMENT, DISPARITIES AND MOLECULAR MECHANISMS THEME

Molecular Mechanisms of Hypertension
Diagnosis and Treatment of Hypertension
Disparities in Hypertension Treatment and Sequelae

CELL AND ORGANELLE DYNAMICS

Cargo Sorting and Vesicle Targeting
 Cell Division
 Cell Migration
 Diseases of Organelle Misfunction
 Golgi Structure and Biogenesis
 Intracellular Dynamics
 Membrane Biogenesis
 Membrane Transport
 Mitochondrial Dynamics
 Mitochondrial Genetic Diseases
 Mitochondrial Toxicity
 Nuclear Dynamics
 Organelle Biogenesis
 Organelle Evolution

2220-ASBMB	BIOENERGETICS	2286-ASBMB	Aging
2221-ASBMB	Cytochrome P450	2287-ASBMB	Apoptosis and Cell Stress
2222-ASBMB	Flavoproteins	2288-ASBMB	Biochemical Pharmacology
2223-ASBMB	Oxidative Phosphorylation	2289-ASBMB	Caspases
2230-ASBMB	CELL CYCLE	2290-ASBMB	Cell Proliferation
2231-ASBMB	Cell Cycle and Growth Control	2291-ASBMB	Cytokine and Growth Factor Signaling
2232-ASBMB	Checkpoint Mechanisms	2292-ASBMB	DNA Damage Signaling
2233-ASBMB	Cyclins and Cyclin-Dependent Kinases	2293-ASBMB	G Proteins and Protein Kinases
2240-ASBMB	CHROMOSOMES	2294-ASBMB	GTPases
2241-ASBMB	Centromeres and Kinetochores	2295-ASBMB	Hormone Receptors
2242-ASBMB	Chromosome Segregation and Aneuploidy	2296-ASBMB	Integration and Organization of Signaling Pathways
2243-ASBMB	Cohesion /Chromosome Condensation	2297-ASBMB	Neurobiology
2244-ASBMB	Mitotic Spindle	2298-ASBMB	Peptide Hormones
2245-ASBMB	Spindle Checkpoint	2299-ASBMB	Posttranslational Modifications
CELL SYSTEMS		2300-ASBMB	Signaling in Bacterial Receptor Systems
2250-ASBMB	NEW FRONTIERS IN GENOMICS AND QUANTITATIVE PROTEOMICS THEME	2301-ASBMB	Signaling in Disease and Therapy
2251-ASBMB	Quantitative Proteomic Analysis of Protein Complexes	2302-ASBMB	Signaling to the Cytoskeleton
2252-ASBMB	Genomics: Model Organisms and New Frontiers	2303-ASBMB	Signaling to the Nucleus
2253-ASBMB	Quantitative Analysis of Posttranslational Modifications	2304-ASBMB	Toxins
2254-ASBMB	Biophysical Methods	2305-ASBMB	Transcriptional Regulation and Epigenetic Control
2255-ASBMB	Computational Approaches in Systems Biology	2310-ASBMB	PROTEIN PHOSPHORYLATION AND DEPHOSPHORYLATION
2256-ASBMB	Electrophoresis	2311-ASBMB	Adapter Proteins
2257-ASBMB	Experimental and Computational Approaches to Systems Biology	2312-ASBMB	Kinase Cascades
2258-ASBMB	Fluorescence Microscopy Approaches to Understanding Apoptosis	2313-ASBMB	Map Kinases
2259-ASBMB	Functional Proteomic Studies	2314-ASBMB	Phosphatases
2260-ASBMB	Genomics	2315-ASBMB	Receptor Tyrosine Kinase Signaling to Nucleus
2261-ASBMB	Genomics and Toxicogenomics	2316-ASBMB	Serine/Threonine Kinase
2262-ASBMB	Global Analysis of Protein Function	2317-ASBMB	Small GTPases
2263-ASBMB	Mass Spectroscopy	2318-ASBMB	Tyrosine Kinases
2264-ASBMB	Mathematical Biology	2320-ASBMB	SECOND MESSENGERS
2265-ASBMB	Microarrays	2321-ASBMB	Calcium
2266-ASBMB	Nanotechnology	2322-ASBMB	Cyclases
2267-ASBMB	New Molecular and Cellular Imaging Agents	2323-ASBMB	Cyclic AMP
2268-ASBMB	Posttranslational Modifications	2324-ASBMB	Cyclic GMP
2269-ASBMB	Protein Chemistry	2325-ASBMB	Inositol Phosphates and Phosphoinositides
2270-ASBMB	Protein Profiling in Normal and Disease States	2326-ASBMB	Nitric Oxide
2271-ASBMB	Proteomics and Bioinformatics	2327-ASBMB	Other Lipid Second Messengers
2272-ASBMB	Recombinant DNA Technology	2328-ASBMB	Phosphodiesterases
2273-ASBMB	Regulatory Networks	2329-ASBMB	Signaling Crosstalk
2274-ASBMB	Subsystems and Simulation	2330-ASBMB	CHEMICAL BIOLOGY AND DRUG DISCOVERY THEME
2275-ASBMB	Surface Plasmon Resonance	2331-ASBMB	Mechanisms of Drug Action
2280-ASBMB	SYSTEMS BIOLOGY, SYNTHETIC BIOLOGY AND SIGNAL TRANSDUCTION THEME	2332-ASBMB	Chemical Biology: Dissecting Cellular Processes
2281-ASBMB	Making Sense of Whole Genome Data	2333-ASBMB	Drug Resistance
2282-ASBMB	Signaling Modules	2334-ASBMB	Chemical Biology: Evolution, Engineering and Design
2283-ASBMB	Evolution and Development	2335-ASBMB	Biosynthesis of Complex Molecules
2284-ASBMB	Synthetic Biology	2336-ASBMB	Chemical Biology of Cell Death
2285-ASBMB	ADAMS and Other Proteases	2337-ASBMB	Chemical Perspectives in Neurobiology
		2338-ASBMB	Chemical Probes and Their Use in Identifying New Therapeutic Targets

2339-ASBMB Chemistry and Cell Biology of Natural Products
 2340-ASBMB Computational Chemistry and Informatics
 2341-ASBMB Fragment Based Drug Discovery: Size Matters
 2342-ASBMB High Content Approaches
 2343-ASBMB Label-Free Technologies in Drug Discovery
 2344-ASBMB Membrane Proteins as Drug Targets
 2345-ASBMB Mode of Action of Bioactive Natural Products
 2346-ASBMB Modulation of Enzyme Activation
 2347-ASBMB New Targets for Drug Discovery: Antibacterials
 2348-ASBMB New Targets for Drug Discovery: Nuclear Hormone Receptors
 2349-ASBMB Nucleic Acid- Small Molecule Interactions
 2350-ASBMB Pharmacogenomics
 2351-ASBMB Polypharmacology and Drug Repurposing
 2352-ASBMB Protein-Small Molecule Interactions
 2353-ASBMB Small Molecule Modulation of Protein Folding and Assembly
 2354-ASBMB Small Molecule Tools for Biology
 2355-ASBMB Target Validation and Pathway Mining

2360-ASBMB PLANT BIOCHEMISTRY
 2361-ASBMB Integration of Carbon and Nitrogen Metabolism
 2362-ASBMB Novel Lipid Biosynthesis in Plants
 2363-ASBMB Proteolysis in Plant Growth and Development
 2364-ASBMB Regulation of Plant Metabolism

ASBMB EDUCATION AND PROFESSIONAL DEVELOPMENT

2370-ASBMB CAREERS IN BIOCHEMISTRY AND MOLECULAR BIOLOGY THEME
 2371-ASBMB Preparing BMB Students for a Multidisciplinary World
 2372-ASBMB Evaluating Pedagogical Approaches to BMB Education
 2373-ASBMB Innovative Approaches to Learning and Professional Development
 2374-ASBMB Mentoring



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TOPIC CATEGORIES - PATHOLOGY

4000-ASIP	PATHOBIOLOGY of AGING	4037-ASIP	EPITHELIAL PATHOBIOLOGY
4001-ASIP	Cell senescence	4038-ASIP	Epithelial to mesenchymal transition and molecular basis
4002-ASIP	Biolongevity	4039-ASIP	Epithelial-microbial interactions in health and disease
4003-ASIP	Novel genetic and molecular markers of biolongevity	4040-ASIP	Epithelial inflammation and inflammatory mediators
4004-ASIP	Novel targets in mitochondrial diseases	4041-ASIP	Regulation of epithelial barrier and intercellular junctions
4005-ASIP	BIOINFORMATICS	4042-ASIP	INFLAMMATION and IMMUNOPATHOLOGY
4006-ASIP	Genome bioinformatics	4043-ASIP	Allergic diseases
4007-ASIP	Computational biology	4044-ASIP	Autoimmune diseases
4008-ASIP	Bioinformatics for diseases	4045-ASIP	HIV
4009-ASIP	BIOBANKING/BIOREPOSITORIES	4046-ASIP	Innate immunity, TLRs, and pathogen recognition receptors
4010-ASIP	QA and QC in repositories	4047-ASIP	Leukocyte-endothelial cell interactions
4011-ASIP	Biobanking informatics	4048-ASIP	Mediators of inflammation
4012-ASIP	Legal and ethical challenges in biobanking	4049-ASIP	Microbial pathogenesis
4013-ASIP	Patient advocacy in biobanking	4050-ASIP	Nitric oxide synthase
4014-ASIP	CELL and TISSUE SPECIFIC GENE EXPRESSION	4051-ASIP	Sepsis and endotoxin
4015-ASIP	Transcription factors in pathobiology	4052-ASIP	The immune response
4016-ASIP	miRNA expression in health and disease	4053-ASIP	The inflammatory response, chemokines, cytokines and their receptors
4017-ASIP	Gene expression studies	4054-ASIP	Transplantation
4018-ASIP	CELL ADHESION and CELL SIGNALING	4055-ASIP	CARDIAC PATHOLOGY
4019-ASIP	Cell adhesion	4056-ASIP	Animal models of heart disease
4020-ASIP	Cell surface receptors and signaling pathways	4057-ASIP	Cardiac hypertrophy/heart failure
4021-ASIP	Chemokines and cytokines	4058-ASIP	Genetic basis of cardiac disease and development
4022-ASIP	EXTRACELLULAR MATRIX IN PATHOBIOLOGY	4059-ASIP	Cardiac metabolism in health and disease
4023-ASIP	Extracellular matrix - proteases and remodeling	4060-ASIP	Non-valvular cardiac infections
4024-ASIP	Extracellular matrix and cell adhesion	4061-ASIP	Pathophysiology of cardiac valve diseases
4025-ASIP	Extracellular matrix, integrins and cell signaling pathways	4062-ASIP	Ischemic heart disease and cardiac ischemia reperfusion injury
4026-ASIP	CELL DEATH, TISSUE INJURY AND REPAIR	4063-ASIP	LIVER PATHOLOGY
4027-ASIP	Apoptosis/necrosis	4064-ASIP	Animal models of liver disease
4028-ASIP	Environmental pathology and toxicology	4065-ASIP	Liver injury
4029-ASIP	Ischemia/reperfusion injury	4066-ASIP	Hepatitis, liver fibrosis and cirrhosis
4030-ASIP	Inflammation and inflammatory mediators	4067-ASIP	Liver development
4031-ASIP	Oxidant, genotoxic, metabolic and other types of stress	4068-ASIP	Stem cells and cancer
4032-ASIP	Cell and tissue repair	4069-ASIP	Liver growth and regeneration
4033-ASIP	Ubiquitin proteasome system in disease	4070-ASIP	Liver tissue engineering and transplantation
4034-ASIP	The role of the proteasome in disease	4071-ASIP	LUNG PATHOLOGY
4035-ASIP	ER stress and autophagy in disease	4072-ASIP	Animal models of lung disease
4036-ASIP	Ubiquitin-like proteins in diseases (SUMO, Nedd, others)	4073-ASIP	Lung - acute lung injury
		4074-ASIP	Lung - cancer
		4075-ASIP	Lung - infections
		4076-ASIP	Lung - interstitial lung disease/pulmonary fibrosis

4077-ASIP	Lung - normal development and developmental diseases	4112-ASIP	Proteomics
4078-ASIP	Lung - obstructive airway diseases	4113-ASIP	SNPs and genotyping
4079-ASIP	Lung - vascular biology, repair and immunology/inflammation	4114-ASIP	NEOPLASIA
4080-ASIP	Pulmonary stem cells	4115-ASIP	Dietary and environmental factors in cancer
4081-ASIP	NEUROPATHOLOGY	4116-ASIP	Epigenetics of cancer
4082-ASIP	Animal models of neuropathology	4117-ASIP	Genetics of cancer
4083-ASIP	Alzheimer's disease	4118-ASIP	Aberrant signaling in cancer
4084-ASIP	Demyelinating diseases	4119-ASIP	Developmental pathways in cancer
4085-ASIP	Developmental and other pediatric neuropathology	4120-ASIP	Cancer stem cells
4086-ASIP	Disease of peripheral nerve and skeletal muscle	4121-ASIP	Biomarkers
4087-ASIP	Infectious diseases	4122-ASIP	Lymphomas/Leukemias
4088-ASIP	Neurodegenerative diseases - frontotemporal and Lewy body disorders	4123-ASIP	Breast cancer
4089-ASIP	Neurodegenerative diseases - other	4124-ASIP	Cancer biology
4090-ASIP	Neuronal neurogenesis, regeneration, injury and repair; trauma	4125-ASIP	Colon cancer
4091-ASIP	Stroke/vascular diseases	4126-ASIP	Prostate cancer
4092-ASIP	Toxic/metabolic diseases	4127-ASIP	Animal cancer models
4093-ASIP	Tumors - glial	4128-ASIP	Molecular targeting for cancer therapeutics
4094-ASIP	Tumors -nonglial	4129-ASIP	Tumor angiogenesis
4095-ASIP	MISCELLANEOUS NON-NEOPLASTIC TISSUE and ORGAN PATHOBIOLOGY	4130-ASIP	Tumor immunology
4096-ASIP	Molecular pathogenesis of genetic disease	4131-ASIP	VASCULAR BIOLOGY AND PATHOLOGY
4097-ASIP	Molecular pathogenesis of infectious disease	4132-ASIP	Angiogenesis and vascular development
4098-ASIP	Stem Cells: biology, development and applied	4133-ASIP	Animal models of vascular diseases
4099-ASIP	Molecular and bio-markers in non-neoplastic diseases	4134-ASIP	Atherosclerosis and restenosis
4100-ASIP	Diabetes	4135-ASIP	Endothelial function and response to injury
4101-ASIP	Endocrine/GU/Gynecologic pathology	4136-ASIP	Extracellular matrix in vascular biology
4102-ASIP	Hematopathology	4137-ASIP	Genomics/proteomics in vascular biology and pathology
4103-ASIP	Renal pathology	4138-ASIP	Hemostasis
4104-ASIP	Skeletal and bone pathology	4139-ASIP	Immune system in vascular disease(s)
4105-ASIP	Miscellaneous tissue and organ pathology	4140-ASIP	Lipid mediators and lipoproteins
4106-ASIP	Veterinary pathology	4141-ASIP	Mechano-sensing and signal transduction in the vessel wall
4107-ASIP	Toxicologic pathology	4142-ASIP	Neurovascular connections/interactions
4108-ASIP	TRANSLATIONAL RESEARCH	4143-ASIP	Proteases in vascular biology
4109-ASIP	Gene therapy	4144-ASIP	Regulation of endothelial junctions
4110-ASIP	Cell therapy	4145-ASIP	Stem/progenitor cells in vascular biology
4111-ASIP	New technologies for research and diagnosis	4146-ASIP	Thrombosis and platelets
		4147-ASIP	Vascular calcification
		4148-ASIP	Vascular cell biology
		4149-ASIP	Vascular cell dysfunction in disease
		4150-ASIP	Vascular disease and genetic disorders
		4151-ASIP	Vascular signal transduction
		4152-ASIP	Vascular smooth muscle cell biology
		4153-ASIP	Vascular tissue engineering
		4154-ASIP	Vasoactive molecules



<http://www.asip.org/mtgs/eb10/>

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TOPIC CATEGORIES - NUTRITION

MINISYMPOSIA

5000-ASN

AGING AND CHRONIC DISEASE

- 5001-ASN Nutrition, muscle function and longevity
- 5002-ASN Nutrition, physical activity and cognitive function
- 5003-ASN Osteoporosis and bone metabolism in aging
- 5004-ASN Obesity and diabetes in older adults
- 5005-ASN Community nutrition and aging
- 5006-ASN Nutrition interventions for risk factor modification in age-related disease
- 5007-ASN Nutritional assessment in older populations
- 5008-ASN Environment and diet in aging

5020-ASN

COMMUNITY AND PUBLIC HEALTH NUTRITION

- 5021-ASN Community and public health nutrition interventions
- 5022-ASN Diet, food security, and health promotion in diverse communities

5030-ASN

CARIG (CAROTENOIDS)

- 5031-ASN Carotenoids and health

5040-ASN

DIET AND CANCER

- 5041-ASN Diet and cancer, macronutrients
- 5042-ASN Diet and cancer, micronutrients and bioactive compounds
- 5043-ASN Diet, exercise and cancer risk
- 5044-ASN Translational and clinical aspects of diet and cancer
- 5045-ASN Obesity, inflammation and cancer risk
- 5046-ASN Nutrition and cancer survivorship

5060-ASN

DIETARY BIOACTIVE COMPOUNDS INCLUDING BOTANICALS

- 5061-ASN Dietary bioactive compounds I: Mechanisms of action and molecular targets
- 5062-ASN Dietary bioactive compounds II: Chronic disease risk reduction
- 5063-ASN Dietary bioactive compounds III: Antioxidants and free radicals
- 5064-ASN Dietary bioactive compounds IV: Medicinal foods
- 5065-ASN Fermented foods and probiotic

5080-ASN

ENERGY AND MACRONUTRIENT METABOLISM

- 5081-ASN Energy balance, macronutrient and weight loss
- 5082-ASN Obesity and the metabolic syndrome
- 5083-ASN Protein and amino acid metabolism
- 5084-ASN Lipid and fatty acid metabolism and transport
- 5085-ASN Dietary factors affecting lipid metabolism

5086-ASN

5087-ASN

Polyunsaturated fatty acids and health
Metabolic phenotyping, metabolomics and biomarkers

5088-ASN

5089-ASN

5090-ASN

Carbohydrate metabolism
Regulation of food intake
Exercise and metabolism

5100-ASN

5101-ASN

5102-ASN

5103-ASN

5104-ASN

EXPERIMENTAL ANIMAL NUTRITION

Animal research models in lipid and protein nutrition and physiology
Canine and feline nutrition and physiology
Animal models of gastrointestinal health and disease
Animal models of bone health and disease

5120-ASN

5121-ASN

LACTATION

Human milk and lactation

5140-ASN

INTERNATIONAL NUTRITION

5160-ASN

MATHEMATICAL MODELING

5200-ASN

5201-ASN

5202-ASN

5203-ASN

5204-ASN

MEDICAL NUTRITION/EDUCATION

Nutrition support
Comprehensive weight management
Nutritional interventions for health promotion
Nutrition and inflammation

5210-ASN

5211-ASN

5212-ASN

5213-ASN

NUTRITION EDUCATION

Childhood obesity: Nutrition education programs and interventions
Tailoring nutrition education interventions for diverse audiences
Translating nutrition education from bench to behavior

5220-ASN

5221-ASN

5222-ASN

5223-ASN

5224-ASN

5225-ASN

5226-ASN

5227-ASN

5228-ASN

NUTRIENT-GENE INTERACTIONS

Epigenetics
Nutrient-sensing mechanisms
Regulation of mineral metabolism
Nutrigenomics and nutriproteomics
Gene variation on nutrient metabolism
Dietary bioactives and gene expression
Maternal-fetal programming of gene expression
Nutrient effects on stem cell differentiation and pluripotency

5230-ASN

5231-ASN

5232-ASN

NUTRITIONAL EPIDEMIOLOGY

The metabolic syndrome: measurement issues and its effects on health outcomes
Assessing dietary supplement use and data base issues

5233-ASN	Applications, benefits, challenges of public use data sets for nutrition research	5262-ASN	Brain, gut, liver, muscle, and adipocyte molecular metabolism and obesity
5234-ASN	Innovative diet assessment technologies and measurement error methodologies	5263-ASN	Genetics and obesity
5235-ASN	Trends in dietary and anthropometric data for special populations	5264-ASN	Adipose tissue, biology and signal transduction
5236-ASN	Measures of diet and their association with health outcomes	5265-ASN	Assessment of obesity: Medical evaluation and risk
5240-ASN	NUTRITIONAL IMMUNOLOGY	5266-ASN	Pediatric obesity, clinical studies and interventions
5241-ASN	Immune modulating nutraceuticals and functional foods	5267-ASN	Exercise and regulation of muscle metabolism
5250-ASN	NUTRITION TRANSLATION FROM BENCH TO CONSUMER	5268-ASN	Obesity and diabetes in older adults
5251-ASN	The use of consumer insights to guide scientific research	5269-ASN	Obesity and the metabolic syndrome
5252-ASN	Balancing foods and nutrients in the diet (e.g. nutrient density, ratios, types)	5270-ASN	Diet, exercise and cancer risk
5253-ASN	Nutrition science translation for policy, practice and consumers	5271-ASN	Obesity, inflammation and cancer risk
5254-ASN	Unintended consequences of limited science on policy	5280-ASN	VITAMINS AND MINERALS
5255-ASN	Understanding and communicating benefits/risks of natural-state foods (e.g. minimally processed, natural, organic)	5281-ASN	Iron
5260-ASN	OBESITY	5282-ASN	Zinc
5261-ASN	Integrative biology, adipocyte biology, nutrient amino acid and fatty acid metabolism	5283-ASN	Copper
		5284-ASN	Selenium
		5285-ASN	Calcium phosphorus, magnesium and vitamin D
		5286-ASN	Antioxidant nutrients
		5287-ASN	Regulation of mineral metabolism
		5288-ASN	One carbon metabolism nutrients
		5289-ASN	Micronutrients and energy metabolism
		5290-ASN	Vitamin A and retinoids
		5291-ASN	Vitamin E and K interactions

Be sure to attend the Society Business Meeting on Monday, April 26.



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TOPIC CATEGORIES - PHARMACOLOGY

PHARMACOLOGY EDUCATION

- *8100-EB Computers in Research & Teaching
- *8200-EB Teaching, Learning, and Testing in the Biological and Biomedical Sciences

CARDIOVASCULAR PHARMACOLOGY (CVP)

- 3000-ASPET CVP – General
- 3001-ASPET CVP – Injury/Protection/Remodeling
- 3002-ASPET CVP Thrombosis
- 3003-ASPET Vascular Pharmacology – General
- 3004-ASPET Vascular Pharmacology – Cerebral/Coronary/Pulmonary
- 3005-ASPET Vascular Pharmacology – Endothelium
- 3006-ASPET Vascular Pharmacology – Ion Channels/Exchangers

CELLULAR AND MOLECULAR PHARMACOLOGY

- 3007-ASPET Chemotherapy
- 3008-ASPET Gene Expression/Regulation
- 3009-ASPET Genomics/Proteomics
- 3010-ASPET Signal Transduction – General
- 3011-ASPET Signal Transduction – Cell Surface Receptors
- 3012-ASPET Signal Transduction – G Proteins/GPCRs
- 3013-ASPET Signal Transduction – Ion Channels
- 3014-ASPET Signal Transduction – Kinases/Phosphatases
- 3015-ASPET Signal Transduction – Second Messenger Systems
- 3016-ASPET Mechanisms of Cell Injury/Death

CENTRAL NERVOUS SYSTEM PHARMACOLOGY

- 3017-ASPET Behavioral Pharmacology – General
- 3018-ASPET Drugs of Abuse
- 3019-ASPET Memory/Cognition/Learning
- 3020-ASPET Neuropharmacology – General
- 3021-ASPET Neuropsychiatric Disorders
- 3022-ASPET Neurotoxicology – General
- 3023-ASPET Neurotoxicology – Neuroprotective Agents
- 3024-ASPET Neurotransmission
- 3025-ASPET Neurotransmitter Receptors

DRUG METABOLISM AND DISPOSITION (DMD)

- **3026-ASPET DMD – Biotransformation/Chemistry
- **3027-ASPET DMD – Gene Expression and Regulation
- **3028-ASPET DMD – Pharmacokinetics/Toxicokinetics
- **3029-ASPET DMD – Phase I Enzymes
- **3030-ASPET DMD – Phase II Enzymes
- **3031-ASPET DMD – Reactive Metabolites and Toxicity
- **3032-ASPET DMD – Transporters

SYSTEMS PHARMACOLOGY AND TOXICOLOGY

- 3033-ASPET Mechanisms of Toxicity
- 3034-ASPET Genotoxicity/Mutagenesis
- 3035-ASPET Developmental Pharmacology/Toxicology
- 3036-ASPET Targets of Toxicant Sensitivity in Aging
- 3037-ASPET Gastrointestinal Pharmacology/Toxicology
- 3038-ASPET General Pharmacology/Toxicology
- 3039-ASPET Hormones and Hormone Receptors
- 3040-ASPET Immunopharmacology/Toxicology
- 3041-ASPET Pulmonary Pharmacology/Toxicology
- 3042-ASPET Renal Pharmacology/Toxicology
- 3043-ASPET Skeletal Muscle Pharmacology/Toxicology
- 3044-ASPET Smooth Muscle Pharmacology/Toxicology
- 3045-ASPET Pharmacology and Women's Health
- 3046-ASPET Integrative Organ Systems Pharmacology
- 3047-ASPET Regenerative Pharmacology/Stem Cells

PHARMACOGENOMICS AND TRANSLATIONAL PHARMACOLOGY

- 3048-ASPET Pharmacogenomics/Proteomics
- 3049-ASPET Clinical Pharmacology/Toxicology
- 3050-ASPET Drug Discovery, Development and Regulatory Affairs

PHARMACOLOGY – OTHER

- 3051-ASPET Pharmacology – All Other

* For topic categories 8100 and 8200 see page 26.

** Abstracts submitted to this category may be eligible for presentation at the Drug Metabolism Platform Session as well as inclusion in a poster session.



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GENERAL INFORMATION

IMPORTANT DATES

- November 4, 2009 Abstract Submission Deadline
- February 24, 2010 Early Registration Deadline
- March 19, 2010 Hotel Reservations Deadline
- March 19, 2010 Cancellation Deadline

REGISTRATION

Register by February 24, 2010 to receive the discounted registration fee. Complete instructions are on the website at www.experimentalbiology.org.

The registration fee includes entrance to scientific sessions of all 6 participating societies, poster sessions, career center, exhibits, and a copy of the program. *The abstracts will only be published online as part of the FASEB Journal.* Paper copies of the abstracts will not be available. Registration fees do not include abstract submission fees or membership dues.

You can register as follows:

- **Online at www.experimentalbiology.org**
- Mail the form and payment to:
EB 2010 Registration Office
9650 Rockville Pike
Bethesda, MD 20814
The form is online at www.experimentalbiology.org as an interactive PDF.
- Fax the form to 301-634-7008
(credit card payments only).

Mailed and faxed registration forms will only be accepted until February 24. Several societies have planned special activities that require a fee **in addition** to the Experimental Biology 2010 registration fee. Details on the activities and how to register for these activities are included on pages 45.

EB Registration Fees	On or Before February 24	After February 24
Sponsoring/Participating Society Members	\$250	\$325
Nonmembers	\$365	\$440
Retired Society Members	\$120	\$135
*Graduate Student Members	\$65	\$75
*Graduate Student Nonmembers	\$85	\$95
**Undergraduate Students High School Students and Teachers	On-site registration only - Free	

***Graduate Student Registration (including all Society student members):** You must have a department head or research advisor certify your student eligibility. If registering online, enter the name and email address of your department head. If registering at the meeting, bring your student ID card or a letter signed by your department head. "Student" will be indicated on your badge. **Postdoctoral fellows, hospital residents, interns, and laboratory technicians do not qualify as students and must pay the full member or nonmember fee.**

****Undergraduate Students, High School Students and High School Teachers:** Registration will not be accepted in advance. To receive complimentary registration on-site, bring your student or teacher ID card or a letter signed by your department head, research advisor, principal or teacher.

Press Registration: Registration will not be accepted in advance. Press badges will be issued in the Press Room only to members of the working press and freelance writers with a letter of assignment from an editor. Representatives from allied fields (public relations, public information, public affairs, etc.) may register in the registration area as nonmembers.

U.S. Registrants: You will receive your badge and program by mail only if you register before February 24. If you register after February 24 but prior to March 29 your badge will be mailed, however, your program must be picked up on site.

International Registrants: You may pick up your badge and program at the meeting. No materials will be mailed in advance.

On-site Registration: On-site registration will be available at the Anaheim Convention Center beginning Friday, April 23, continuing through Wednesday, April 28.

Cancellation and Refunds: The badge, receipt and a letter requesting a refund of the registration fee must be received by March 19, 2010. A \$35 non-refundable processing fee will be deducted from the refund. After March 19, no refunds will be issued. Mail to: EB 2010 Registration Office, 9650 Rockville Pike, Bethesda, MD 20814-3998.

HOTEL INFORMATION

Deadline for hotel reservations: March 19, 2010. A list of participating hotels with locations, discounted rates, amenities and instructions for making a reservation are online at www.experimentalbiology.org. Also, be sure to read the information on the importance of staying at an EB official hotel.

We have standard hotel rooms and larger suites available suitable for room sharing or travelling with your family. Hotel rates vary from \$105 to \$195. Many hotels offer additional amenities that should be considered when selecting your accommodations. Review the online matrix to decide which hotel best suits your personal needs. Some discounts and complimentary items are only extended to EB 2010 participants.

The Anaheim/Orange County Visitor and Convention Bureau and Passkey Inc. are the only official housing providers for the Experimental Biology meeting.

SOCIETY TICKETED EVENTS

The following special Society activities have been planned and require a fee in addition to the Experimental Biology 2010 registration fee. If you plan to attend any of these activities, please note where and how to register.

AAA SPECIAL EVENTS



18th Annual AAA Awards Banquet & Reception

Tuesday, April 27

The American Association of Anatomists cordially requests the pleasure of your company at the 18th Annual AAA Awards Banquet on Tuesday, April 27, 2010. The Banquet—from 7:00PM to 10:00PM at the Anaheim Marriott—will feature a cocktail reception, dinner, live music, and presentation of AAA awards. Tickets will be available for purchase online via the AAA website (www.anatomy.org). Tickets will not be sold on-site at the meeting.

APS SPECIAL EVENTS



APS Opening Reception

Saturday, April 24

Immediately following the *Physiology in Perspectives—Walter B. Cannon Memorial Award Lecture*—APS will be hosting an opening reception. The Cannon Lecture will begin at 5:45PM and the reception will immediately follow at 7:00PM. The lecture will be Ballroom B and the reception will be in Ballroom A in the Anaheim Convention Center. The reception will feature jazz musicians, a light dinner buffet and beverages. The event is free for APS members and those expressing interest in physiology on their registration form, but tickets will be required for entry. To receive tickets, please indicate your intent to attend the reception on the Experimental Biology 2010 meeting registration form at www.experimentalbiology.org.

ASBMB SPECIAL EVENTS



The American Society for Biochemistry and Molecular Biology will include, as part of this meeting, the following events requiring advanced registration. All ASBMB and EB participants are invited to attend. Please check the appropriate box when registering. Space is limited therefore, we suggest you register early.

Additional event information (both ticketed and non-ticketed events) will be posted at www.asbmb.org/meeting2010

ASBMB Graduate and Postdoctoral Professional Development Program

Saturday, April 24, 9:00 AM - 5:00 PM

\$20 ASBMB Members; \$30 all other EB Registrants. Registration includes networking luncheon.

This special pre-meeting program includes a panel and discussion session on Career Options, networking luncheon and afternoon panel discussions focusing on career development issues facing Graduate Students and Postdoctoral Fellows in today's professional environment.

Space is limited and registration is required for all non-travel awardee participants. Travel Award recipients receive complimentary event registration and do not need to register in advance. Registered mentors/advisors are welcome to join their students/postdocs.

Registration and current program details are available at: <http://www.asbmb.org/meeting2010>.

ASBMB 5K Fun Run

Sunday, April 25

Event registration deadline: February 24, 2010

The ASBMB 5K Fun Run will be held Sunday, April 25 at 7:00AM. The run entry fee is \$25 for ASBMB members and \$30 for all other EB registrants. Space is limited to the first 200 registrants, and advance registration is required. There will be NO same-day registration. The Fun Run will be held rain or shine. Refreshments will be available for registered participants and prizes will be awarded to the first place male and female finishers. Registered runners/walkers will receive a ticket for the Fun Run with their meeting badge. Logistical information will be emailed directly to registered runners in April. Undergraduate Students interested in participating must contact meetings@asbmb.org by the Early Registration Deadline to sign up. You may register for the ASBMB Fun Run when registering for Experimental Biology 2010 at www.experimentalbiology.org.

It's All Anaheim.

Come visit the new Anaheim. It's been sixteen years since Experimental Biology was hosted in Anaheim and a lot has changed; newly renovated hotels, restaurants, shopping, Disneyland parks and convention center.

Air Travel/Ground Transportation

Anaheim is conveniently located near four major airports. When selecting your air travel arrangements be sure to consider your options with all the airports to purchase the most convenient flights at the best fare available.

- Orange County/John Wayne Airport (SNA) – 20 minutes/ 13 miles – approximately \$10 shuttle/ \$35 taxi
- Los Angeles International (LAX) – 50 minutes/ 35 miles – approximately \$15 shuttle/ \$90 taxi
- Long Beach Airport (LGB) – 30 minutes/ 18 miles – approximately \$28-33 for the first person + \$9-10 each additional person/ \$50 taxi
- LA/Ontario (ONT) – 45 minutes/ 36 miles – approximately \$35-39 for the first person + \$9-10 each additional person/ \$95 taxi



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It's All New.

For more information on Anaheim visit the Anaheim/Orange County Visitor and Convention Bureau website at www.anaheimoc.org.

Hotels

Discounted hotel reservations can be made online through the Experimental Biology website. The Anaheim/Orange County Visitor and Convention Bureau and Passkey Inc. are the official housing providers for the Experimental Biology meeting. View housing options online including rates, type of room, hotel amenities and distance to the Anaheim Convention Center.

Many hotels within our housing block offer suites to accommodate family travel.

Disneyland Tickets

For advance purchase of specially-priced Disney Tickets, including Disney PARK HOPPER® Meeting/Convention Theme Park tickets visit www.experimentalbiology.org. Tickets can also be purchased at many of the Anaheim hotels.



IMPORTANT PROCEDURAL INFORMATION

- The abstract fee is not your registration fee and is not your society membership fee.
- In addition to submitting your abstract, you must register for the meeting.
- After submitting your abstract, you must submit a separate application if you want to apply for any of the Society awards and follow the process required by the Society.
- The complete Call for Abstracts and general information is available at www.experimentalbiology.org.



As soon as possible:

- Submit your abstract
- Register for the meeting
- Make hotel reservations
- Make airline reservations

Register before Thursday, October 1 to be entered into a prize drawing.

All paid registrations **received** by Thursday, October 1 will be entered into our prize drawing. One winner will be selected at random by each sponsoring society. Prizes vary by society. Visit our website www.experimentalbiology.org for more information.

November 4, 2009

- Deadline to submit abstract and \$65 non-refundable abstract processing fee.
- Deadline to withdraw or make changes to a submitted abstract.

February 24, 2010

- Deadline for early registration. You may register online after this date, however your registration will be at the higher fee.

March 19, 2010

- Deadline for hotel reservations. Rates and availability cannot be guaranteed after this date.

March 19, 2010

- Deadline to request a refund of advance registration.

April 24 - 28, 2010

- Attend the Experimental Biology meeting in Anaheim!



Follow EB and the Societies on Facebook and Twitter for meeting updates.

EXHIBITION AND SPONSORSHIP OPPORTUNITIES AT EB 2010

Don't miss this opportunity to meet with the leaders and decision makers looking for products and services like yours! Reserve your booth space by January 13, 2010 to have your company information printed in the meeting program.

EB 2010 offers numerous Marketing Opportunities

Virtual Exhibit Hall

Promote your company and products online. The EB 2010 website and meeting program will include your contact information, as well as the products and services you provide. For a nominal fee, we will provide a link to your home page.

Exhibitor Workshops

Reserve a meeting room (in one hour increments) to present in-depth presentation of your company's products.

Sponsorship Opportunities

Sponsorship is an excellent way to keep your company's name in the forefront! All meeting sponsors are announced in the official meeting program, on EB's meeting website, signs and booth "thank you" certificates and sponsor ribbons.

Meeting Highlights

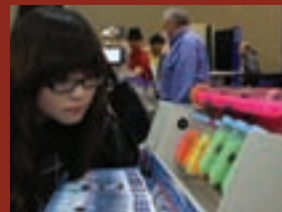
Multi-society, interdisciplinary, biomedical, scientific meeting featuring:

- Plenary and Award Lectures
- Symposia
- Oral and Poster Presentations
- Exhibits – Scientific equipment, supplies and publications
- Career Placement Center

EB
experimental biology

Over 13,000 independent scientists representing the participating and sponsoring societies of Experimental Biology

**For information or to reserve your exhibit space please visit:
www.experimentalbiology.org/exhibits.**



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FASEB Office of Scientific Meetings and Conferences

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IMPORTANT DATES

**November 4, 2009
Abstract Submission Deadline**

**February 24, 2010
Early Registration Deadline**

**March 19, 2010
Hotel Reservations Deadline**

