Call for Abstracts and Program Information

Abstract Deadline: Thursday, November 8, 2012

www.experimentalbiology.org



Experimental Biology

Annual Meeting of:

American Association of Anatomists (AAA) CELEBRATING 125 YEARS!

The American Physiological Society (APS)

American Society for Biochemistry and Molecular Biology (ASBMB)

American Society for Investigative Pathology (ASIP)

CELEBRATING
100 YEARS!



American Society for Nutrition (ASN)

American Society for Pharmacology and Experimental Therapeutics (ASPET)

April 20-24, 2013

Boston Convention & Exhibition Center

EXPERIMENTAL BIOLOGY 2013 ORGANIZATIONS













The Guest Societies participating in EB 2013 include:

AAA - American Association of Anatomists

Canadian Association for Anatomy, Neurobiology, and Cell Biology (CAANCB)

APS - American Physiological Society

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

ASBMB - American Society for Biochemistry and Molecular Biology

Biochemical Society
Division of Biological Chemistry – American Chemical Society
Panamerican Association for Biochemistry and Molecular
Biology (PABMB)

ASIP - American Society for Investigative Pathology

American College of Veterinary Pathologists
American Society for Matrix Biology
International Society for Analytical and Molecular Morphology
International Society for Biological and Environmental Repositories
Society for Cardiovascular Pathology
Società Italiana di Patologia e Medicina Traslazionale/Italian
Society of Pathology and Translational Medicine
The Histochemical Society

ASN - American Society for Nutrition

Academy of Nutrition and Dietetics (AND)
American Society for Animal Science (ASAS)
Association of Nutrition Departments and Programs (ANDP)
ILSI North America
Korean Nutrition Society (KNS)
Plant Phenolic and Human Health Research Interest
Group (PhenHRIG)
The Nutrition Society

ASPET - American Society for Pharmacology and Experimental Therapeutics

Behavioral Pharmacology Society British Pharmacological Society Canadian Society for Pharmacology and Therapeutics

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

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

Experimental Biology is an annual meeting comprised of more than 14,000 scientists representing six organizing societies and 27 guest societies. Primary focus areas include anatomy, physiology, pathology, biochemistry and molecular biology, investigative pathology, nutrition and pharmacology. EB 2013 is open to all organizing and guest society members and nonmembers with an interest in the latest research impacting life sciences. Attendees represent scientists from academic institutions, government agencies, non-profit organizations and industry.

This multidisciplinary, scientific meeting features plenary and award lectures, workshops, oral and poster presentations, on-site career services and exhibits spotlighting equipment, supplies and publications required for research labs and experimental study.

Experimental Biology 2013 offers:

- Access to 6 collective society meetings in one location with one registration fee
- More than 50 concurrent scientific sessions open to all attendees featuring the latest in life sciences
- Opportunity to meet representatives from nearly 300 companies on the exhibit floor
- Over 5000 poster presentations in 4 days of poster sessions
- More than 90 award programs and travel funding opportunities, plus poster competitions (awards vary by society)
- On average, sixty-five countries represented annually creating a diverse audience

Contact us at:

Experimental Biology 9650 Rockville Pike

Bethesda, MD 20814-3998

(T) 301-634-7010

(F) 301-634-7014

eb@faseb.org

www.experimentalbiology.org

Mark your Calendar

Experimental Biology 2013 – Translating Science Today for Tomorrow's Health

April 20-24

Boston Convention & Exhibition Center (BCEC) 415 Summer Street Boston, MA 02210

Scientific Sessions:

Saturday, April 20 – Wednesday, April 24

Poster Sessions:

Sunday, April 21 – Wednesday, April 24

Exhibits:

Sunday, April 21 – Tuesday, April 23

CAREER DEVELOPMENT SESSIONS

Visit www.experimentalbiology.org for further information.

ANATOMY

Managing Workplace Conflict:

Part 1 – Understanding Conflict: Assessing Your Own Tendencies

Part 2 – Developing Core Skills for Managing Conflict

PHYSIOLOGY

Publishing 101: How to Get Your Work Published in APS Journals and Avoid Minefields along the Way

Communicating Science to Non-Scientists: Keys to Funding and Visibility (Sponsored by: Careers in Physiology Committee)

The Changing Face of Tenure (Sponsored by: Women in Physiology Committee)

NIH Funding Agencies

BIOCHEMISTRY

Computational Tools for Assigning Enzymatic Functions Workshop Fostering Partnerships between Colleges, Universities and K-12 Schools Workshop

From the Lab to the Kitchen Table – Communicating Science to a Lay Audience

Graduate and Postdoctoral Professional Development Program Jobs in Industry for Minority Scientists

Navigating Mid-Career Transitions

Professional Development Workshop for Students, Postdocs and Junior Faculty

Promoting Concept Driven Teaching Strategies in BMB through Concept Assessments

Proteomics of Post-translational Modifications Workshop

Science Cafés: The New Social Network

Training for a World in Transition

Transitioning beyond the Bench

Transitioning from Student to Professional

Undergraduate Orientation, A Student's Guide to the ASBMB Annual Meeting

Undergraduate Breakfast with ASBMB Award Scientists

Undergraduate Poster Competition, ASBMB 17th Annual Student Research Poster Competition

Undergraduate Workshop, Beyond College: Coping with Some Common Challenges

Welcome and Networking Reception

sponsored by the ASBMB Minority Affairs Committee

"What Is a Germ?" Challenge

Women Scientists Panel and Networking Reception

PATHOLOGY

Career Development Workshop and Breakfast:
Non-traditional Career Opportunities in Pathology
13th Annual Career Development Program and Lunch: Dancing
with Journals: A Guide to Submission and Review

NUTRITION

Grand Prize for Young Minority Investigations Competition Medical Nutrition Council Clinical Emerging Leader Award Competition

International Nutrition Council Kellogg International Student Prize Competition

Nutritional Sciences Council Graduate Student Research Award Competition

Postdoctoral Research Award Competition endowed by Solae, LLC

The World Has Changed and So Must Your Communication Style

PHARMACOLOGY

Advancing Discoveries from the Academic Laboratory to the Market

Diversity Mentoring Breakfast

Graduate Student-Postdoctoral Colloquium: Careers Roundtable Translating Pharmacology into Career Choices in the Pharmaceutical and Biotechnology Industry

MARC & PROFESSIONAL DEVELOPMENT PROGRAMS

Networking: A Required Life Skill

Goal Setting, Prioritizing, Time Management

Making the Case for Graduate School

Navigating Graduate Work, Protocol, Milestones, Requirements

Fundamentals for Managing the Postdoctoral Experience

Developing/Writing the Doctoral Dissertation

Leadership Principles for Today's Professionals

Negotiation Strategies for Scientists

Global Interview Skills: A Practice Workshop for International Candidates

Making the Grade: Job Talk/Chalk Talk

Job Search in Academia & Industry

Revealing Your Character through Your Resume

Sometimes It's Who You Know: Winning at Networking

Making the Connection: The Relationship between the Resume, the Interview and the Job

Successful Behaviors for Winning an Interview

The Right Attitude and Behaviors While Job Searching from the Resume to the Job Offer

Ten Ways to Get Lucky in the Job Search

Developing Your Core Message/"Elevator Pitch"

Postdocs: What Should You Be Looking For and How to Find Them

Professional Development for PhDs

The Academic Job Search in the Life Sciences:

(2 part session) - Pt 1

The Job Talk

Utilizing LinkedIn in the PhD Job Search

CV→Resume

PhD Negotiation Skills and Strategies: How to Get What You Want and Need

Job Hunting in the Biotech Industry

Talking about Money: Compensation Negotiation for Scientist Moving into Industry

Achieving Your Goals: Goal Setting Strategies for Scientific & Career Success [Interactive]

Career Decisions: How to Select a Career Path That's Best for You [Interactive]

Academic Job Search: CV's, Letters, Statements and Start-Ups

Talking about Yourself: Interviewing Well

Transforming Your CV

Beyond the Bench...Preparing for Your Career Transition in the Life Sciences

Economics and Your Job Search

Ten Tough Industrial Interview Questions; Ten Good Responses

Workplace Dynamics I/II

Workplace Dynamics: Conflict & Feedback

Workplace Dynamics: Team Skills

Lab Management

Career Skills Blitz

How to Get a Job in Science Education & Outreach

Managing Up

How to get a Job in Science Policy

How to get a Job in Government: Bench

How to get a Job in Government: Non-bench

How to Continue Your Training at NIH

Becoming a Mentor

NIH SEMINARS

Write Winning Grant Proposals® All-Day Seminar and Workshop [advance registration required]

NIH Career Development (K) Awards

EDUCATION-RELATED SESSIONS

Visit www.experimentalbiology.org for further information.

ANATOMY

Current Research on Curricular Changes and Their Impact on Student Knowledge

Curricular Integration: How Has It Affected Teaching and Learning in Gross Anatomy?

Educational Community Outreach: Get Inspired and Get Out There! [Hybrid Symposium]

Master Class: Team-Based Learning in Anatomy Curriculum Refresher Course: Histology Teaching – Past, Present and Future Teaching Innovations in Anatomy [Platform]

PHYSIOLOGY

Bioinformatics and Modeling 101: How to Use Your Office Computer for Discovering/Simulating Physiological Networks of Your Favorite Genes

Claude Bernard Distinguished Lectureship of the APS Teaching of Physiology Section

Concept Inventories: Assessing Concepts and Competencies to Improve Learning and Teaching

How to Be a Science Advocate in Your Own Backyard Laboratory Exercises, Case Studies and Models for Teaching Physiological Concepts

NCAR Trainee Featured Topic

Refresher Course: Immunology for the Physiologist

Rodent Experimentation

Biology Education: Incentives and Strategies for Change

BIOCHEMISTRY

ASBMB Award for Exemplary Contributions to Education Lecture Fostering Partnerships between Colleges, Universities and K-12 Schools Workshop

Promoting Concept Driven Teaching Strategies in BMB through Concept Assessments

Navigating Mid-Career Transitions

Training for a World in Transition

Transitioning beyond the Bench

Transitioning from Student to Professional

PATHOLOGY

13th Annual Workshop on Graduation Education in Pathology – Careers in Biotechnology

Course: Pathobiology for Basic Scientists: Neoplasia: Fundamental Themes in Neoplasia When Good Cells Go Bad

Scientific Sleuthing of Human Disease for High School Teachers Lunch and Learn: Responsible Conduct in Research Workshop

NUTRITION

Clinical Nutrition Update 2013 (CPE credits available)

First-Time Attendee and New Member Orientation

Meet the Editors

Nutritional Surveys and Epidemiological Studies: Exploring and Enhancing Methods, Interpretation, and Communication

Social Media and Mobile Technology for Nutrition Education and Research

The World Has Changed and So Must Your Communication Style

PHARMACOLOGY

2013 Teaching Institute: Training Models

Do it Right! Writing Case-Based Exam Items, Interpreting Item Analysis and Designing Educational Research Projects to Assess Outcomes – A Workshop

Pharmacology Education Division Symposium: The Future of PhD Education in Biomedicine: U.S. and European Perspectives

Translating Pharmacology into Career Choices in the Pharmaceutical and Biotechnology Industry

PUBLIC POLICY

Visit www.experimentalbiology.org for further information.

SOCIETY AWARDS AND TRAVEL FUNDING OPPORTUNITIES

Details and award application forms are available on the websites noted below.	Deadlines
ANATOMY: Visit www.anatomy.org Graduate Student Poster Presentation Award. Langman Graduate Student Platform Presentation Award Postdoctoral Fellow Poster Presentation Award. Postdoctoral Fellow Platform Presentation Award Education Research Platform Presentation Award AAA/ASE Student/Postdoctoral Education Research Poster Award Undergraduate Student Poster Presentation Award Student/Postdoctoral Travel Award Young Faculty Travel Award	
PHYSIOLOGY: Visit www.the-aps.org/mm/awards APS Arthur C. Guyton Educator of the Year Award supported by Elsevier APS August Krogh Distinguished Lecturer of the Comparative and Evolutionary Physiology Section APS Cardiovascular Section 2013 Berne Distinguished Lectureship. APS Cardiovascular Section 2013 Carl J. Wiggers Award APS Cardiovascular Section Clinical Science Young Investigator Award Sponsored by Portland Press. APS Cardiovascular Section New Investigator Award APS Cardiovascular Section Research Recognition Awards APS Cardiovascular Physiology Section New Investigator Award APS Cardiovascular Physiology Section New Investigator Award APS Cell & Molecular Physiology Section Research Recognition Award APS Cell & Molecular Physiology Section Research Recognition Award APS Cell & Molecular Physiology Section Robert Gunn Student Award APS Central Nervous System New Investigator Award APS Central Nervous System New Investigator Award APS Central Nervous System New Investigator Award APS Central Nervous System Van Harreveld Award APS Comparative & Evolutionary Physiology New Investigator Award APS Comparative & Evolutionary Physiology New Investigator Award APS Comparative & Evolutionary Physiology Research Recognition Award APS Comparative & Evolutionary Physiology Research Recognition Award APS Comparative & Evolutionary Physiology Travel Award sponsored by GlaxoSmithKline. APS Comparative & Evolutionary Physiology Travel Award sponsored by Novo Nordisk Foundation APS Dale J. Benos Early Career Professional Service Award APS Endocrinology & Metabolism Section New Investigator Award APS Environmental & Exercise Physiology Section Gatorade Predoctoral Investigator Award APS Environmental & Exercise Physiology Section Gatorade Predoctoral Investigator Award APS Environmental & Exercise Physiology Section Holintary Award for Beginning Investigator	
APS Environmental & Exercise Physiology Section National Space Biomedical Research Institute's Gravitational Physiology Beginning Investigator Award APS Environmental & Exercise Physiology Section National Space Biomedical Research Institute's	11/08/12
Predoctoral Gravitational Physiology Award APS Environmental & Exercise Physiology Section New Investigator Award APS Environmental & Exercise Physiology Section Predoctoral Military Physiology Award APS Environmental & Exercise Physiology Section Predoctoral Recognition Award APS Environmental & Exercise Physiology Section Recognition Award for Beginning Investigators. APS Environmental & Exercise Physiology Section Rigel Pharmaceuticals Postdoctoral Investigator Award APS Environmental & Exercise Physiology Section Rigel Pharmaceuticals Predoctoral Investigator Award APS Excellence in Professional Student (MD or DO) Research Travel Award APS Fleur L. Strand Professional Opportunity Award. APS Gastrointestinal & Liver Physiology Section New Investigator Award APS Gastrointestinal & Liver Physiology Section Predoctoral and Postdoctoral Poster Awards.	



SOCIETY AWARDS AND TRAVEL FUNDING OPPORTUNITIES

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Details and award application forms are available on the websites noted below.	Deadlines
APS Gastrointestinal & Liver Physiology Section Research Recognition Award	
APS Gastrointestinal & Liver Physiology Section Takeda Distinguished Research Award	
APS Gastrointestinal & Liver Physiology Section Takeda Travel Awards	
APS Horace W. Davenport Distinguished Lectureship of the APS Gastrointestinal & Liver Physiology Section	
APS Juan Carlos Romero and Water & Electrolyte Homeostasis Section Postdoctoral Research Recognition Award	
APS Mead Johnson Research Award in Endocrinology & Metabolism	
APS Michael J. Brody Young Investigator Award of the Neural Control & Autonomic Regulation Section	
APS Neural Control & Autonomic Regulation Section New Investigator Award	
APS Neural Control & Autonomic Regulation Section Research Recognition Award	
APS Nike, Inc. Environmental and Exercise Physiology Postdoctoral Research Award	
APS Nike, Inc. Environmental and Exercise Physiology Predoctoral Research Award	
APS Physiologists in Industry Committee Postdoctoral Novel Disease Model Award	
APS Physiologists in Industry Committee Predoctoral Novel Disease Model Award	
APS Renal Section Amgen Postdoctoral Excellence in Research Award	
APS Renal Section New Investigator Award	
APS Renal Section Predoctoral Excellence in Renal Research Awards	
APS Renal Section Research Recognition Award	
APS Renal Section Young Investigator Award	
APS Respiration Section New Investigator Award	
APS Respiration Section Research Recognition Award	
APS Robert W. Berliner Award for Excellence in Renal Physiology sponsored by Abbott Laboratories	
APS Steven M. Horvath Professional Opportunity Award	
APS Teaching of Physiology Section New Investigator Award.	
APS Teaching of Physiology Section Research Recognition Award	
APS Virendra B. Mahesh Award of Excellence in Endocrinology	
APS Water & Electrolyte Homeostasis Section New Investigator Award in Regulatory and Integrative Physiology	
APS Water & Electrolyte Homeostasis Section Predoctoral Research Recognition Award	
APS/NIDDK Minority Travel Fellowship Awards	
SEBM Young Investigator Award	
BIOCHEMISTRY: Visit www.asbmb.org/meeting2013	
For awards requiring society membership, applicant must be a current member of ASBMB at the time of application s	submission and
have paid their membership dues for the billing cycle which includes the 2013 Annual Meeting. New ASBMB membe	
must be received by November 1, 2012 to allow for complete processing and approval prior to the November 28th tro	
application deadline. Visit www.asbmb.org/meeting2013 for all award and application criteria.	iver avvara
ASBMB Annual Meeting Childcare Grant	11/20/12
ASBMB Graduate Minority Travel Award	
ASBMB Graduate/Postdoctoral Travel Award	
ASBMB Undergraduate Affiliate Network Faculty Travel Award	
ASBMB Undergraduate Affiliate Network Student Travel Award	
ASBMB Undergraduate Student Competitive Travel Award	
ASBMB Undergraduate Affiliate Network Outstanding Chapter Award	03/01/13
PATHOLOGY: Visit www.asip.org/meetings/2013	
ASIP Experimental Pathologist-in-Training Award	
ASIP Experimental Pathologist-in-Graduate Training Award	
ASIP Trainee Travel Awards	
ASIP Minority Trainee Travel Awards	11/15/12
NUTRITION: Visit www.nutrition.org/about-asn/awards/	
ASN Centrum Center for Nutrition Science Award	09/15/12
ASN Conrad Elvehjem Award for Public Service in Nutrition	
ASN David Kritchevsky Career Achievement Award	
ASN E.L.R. Stokstad Award, endowed by the Stokstad Family	
ASN E.V. McCollum Award.	

SOCIETY AWARDS AND TRAVEL FUNDING OPPORTUNITIES

Details and award application forms are available on the websites noted below.	Deadlines
ASN Gilbert A. Leveille Lectureship and Award	09/15/12
ASN General Mills Institute of Health and Nutrition Innovation Award, endowed by the General Mills Bell Institute	
ASN Mary Swartz Rose Senior Investigator Award	
ASN McCormick Science Institute Research Award	
ASN Milton L. Sunde Award.	
ASN Norman Kretchmer Memorial Award in Nutrition and Development	09/15/12
ASN Osborne and Mendel Award	
ASN Robert H. Herman Award	
ASN Excellence in Nutrition Education Award	
ASN Dannon Institute Mentorship Award	
ASN Roland L. Weinsier Award for Excellence in Medical/Dental Education	
ASN Bio-Serv Award in Experimental Animal Nutrition	
ASN Mary Swartz Rose Young Investigator Award	09/15/12
ASN Mead Johnson Award for Research	09/15/12
ASN Peter J. Reeds Young Investigator Award	09/15/12
ASN Samuel J. Fomon Young Physician Award, endowed by Néstlé Nutrition Institute	09/15/12
ASN Postdoctoral Research Award Competition, endowed by Solae, LLC	
ASN Predoctoral Fellowship for Students in Nutrition Research	
ASN Vernon R. Young Award	09/15/12
ASN Nutrition Science Media Award	09/15/12
ASN Graduate Student Research Award Competition, supported by the Nutritional Sciences Council	
ASN Clinical Emerging Leader Award Competition, supported by the Medical Nutrition Council	
ASN International Nutrition Council Kellogg International Student Prize	01/15/13
ASN MARC Travel Award	
ASN Grand Prize for Young Minority Investigators	
ASN W.O. Atwater Lectureship Award	
ASN Volunteer of the Year Award	
ASN Sustaining Member Committee Award of Distinction	
ASN Korean Nutrition Society Award	01/13/13
PHARMACOLOGY: Visit www.aspet.org/awards/	
John J. Abel Award	09/15/12
Julius Axelrod Award	
Pharmacia-ASPET Award in Experimental Therapeutics.	
Robert R. Ruffolo Career Achievement Award	
Torald Sollmann Award in Pharmacology.	
Drug Metabolism Early Career Achievement Award	
Benedict R. Lucchesi Distinguished Lectureship in Cardiac Pharmacology	
ASPET Division for Drug Discovery and Development Young Investigator Award	
ASPET Graduate Student Best Abstract Awards.	
ASPET Graduate Student Travel Awards	
ASPET Minority Graduate Student Travel Awards	
ASPET Minority Young Scientist Travel Awards	
ASPET Pharmacology Educator's Travel Award	
ASPET Postdoctoral Scientist Awards.	
ASPET Summer Undergraduate Research Fellow Travel Awards	
ASPET Young Scientist Travel Awards.	
FASEB-MARC PROGRAM: Visit www.faseb.org/marc for forms and information	
Minority Travel Awards	03/08/13

FASEB Career Resources/MARC Program

A service of FASEB Office of MARC & Professional Development Programs, arranged by Experimental Biology 2013

The EB 2013/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 2013 meeting attendees.

MARC PROGRAM

The FASEB MARC Program will be sponsoring EB 2013 Travel Awards to help support the participation of full-time 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. Faculty/mentors, students and postdoctoral fellows from underrepresented groups at majority institutions are also eligible to apply for the travel awards. For travel award information, contact marcssm@faseb.org

Note: Travel award application deadline—March 8, 2013.

NIH GRANTS SEMINARS & WORKSHOPS

The FASEB Office of MARC & Professional Development Programs will offer NIH grant seminars as part of the Career Center at the Experimental Biology 2013 Annual Meeting. Dr. Henry Khachaturian of NIGMS, NIH will give presentations on the "NIH K Awards". Dr. Peg Atkisson of Grant Writers' Seminars & Workshops, LLC will present the all-day "Write Winning Grant Proposals" seminar. EB 2013 registration is required to participate in the seminars.

Note: A separate advance registration process will be required to participate in the "Write Winning Grant Proposals" seminar. All applicants/registrants must be pre-approved to attend this FREE

seminar. Participation in this seminar is limited to advanced postdoctoral fellows and non-tenured junior faculty members.

"WRITE WINNING GRANT PROPOSALS"® (all-day seminar/workshop)

This widely acclaimed seminar comprehensively addresses both practical and conceptual aspects that are important to the proposal-writing process. It is designed for faculty members and advanced postdoctoral fellows who have had some exposure to writing grant applications, either through training/ mentoring or personal experience. The presentation is tailored to meet the needs of the audience, i.e., to emphasize the funding agencies (federal, private, and/or industrial sources) that are of greatest interest to the attendees. Emphasis is given to such things as idea development, identification of the most appropriate granting agency, how to write for reviewers, and tips and strategies that are of proven value in presenting an applicant's case to reviewers.

This seminar program presented at EB 2013 will focus on NIH and emphasize how to cope with the changes in how grant proposals to NIH are written and reviewed. Regardless of the agency, participants are taught to write with a linear progression of logic, which leads reviewers through their applications. It is stressed that applicants are writing for two different audiences – the assigned reviewers, who have read the application in its entirety, and non-assigned reviewers who may have read little, or nothing, of the proposal before the meeting of the review panel. Strategies designed to merit a fundable priority score are emphasized. [Advanced registration and pre-approval to participate in the seminar are required.]

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://careers.faseb.org

Email: careers@faseb.org or clientserv@jobtarget.com

Phone: 860-437-5700

FASEB MARC Program Travel Awards

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

"Write Winning Grant Proposals"® Registration Information

Email: marcgwsw@faseb.org Phone: 301-634-7930





The American Association of Anatomists will be celebrating its 125th Anniversary in 2013.

www.anatomy.org

KEYNOTE SPEAKER

Evo-Devo and an Expanding Evolutionary Synthesis Monday, April 22, 4:30 PM

Sean Carroll Univ. of Wisconsin

FOCUS PLENARY SPEAKERS

Evolutionary/Developmental Biology - Sunday, April 21, 8:00 AM

Co-sponsored by the AAA Fellows Legacy Fund

Cliff Tabin (Harvard Medical School)

The Evolution and Development of Vertebrate

Limb Morphology

Neil Shubin (Univ. of Chicago)

Fossils, Genes, and the Origin of Organs

Nipam Patel (Univ. of California, Berkeley)

The Evolution of Arthropod Appendages

Cell Biology - Sunday, April 21, 10:30 AM

W. James Nelson (Stanford Univ.)

Cadherin-Based Cell Adhesion and Epithelia Organization:

An Evolutionary Perspective

Sandra Schmid (UT Southwestern Medical Center)

Molecular Mechanisms Governing Clathrin-Mediated

Endocytosis

Education/Professional Development – Monday, April 22, 8:00 AM

Frederic Hafferty (Mayo Clinic)

Anatomy as a Garden of Educational Delights: Medical

Education, Professional Formation and the Hidden Curriculum

David Hirsh (Harvard Medical School)

Longitudinal Integrated Clinical Training as a Model for Basic

Science Education

Paleontology and Functional Anatomy – Monday, April 22, 10:30 AM

Lawrence Witmer (Ohio Univ.)

The Visible Dinosaur: Fleshing out Dinosaur Head Anatomy

and Function with Advanced 3D Imaging

Carol Ward (Univ. of Missouri)

The Evolution of Human Anatomy and Locomotion

Matt Ravosa (Univ. of Notre Dame)

Integrative Experimental Approaches to Adaptive

Interpretations of the Fossil Record

Neuroscience –

Tuesday, April 23, 8:00 AM

Jeff Lichtman (Harvard Univ.)

Imaging the Connectome

Javier DeFelipe (Cajal Institute)

From the Connectome to the Synaptome

Imaging Modalities -

Tuesday, April 23, 10:30 AM

Scott Fraser (California Institute of Technology)
Imaging the Cellular Dynamics and Signals that Pattern

Embryos

Nadine Peyriéras (CNRS-NED Institut de Neurobiologie)

Recording and Statistical Analysis of Early Zebrafish

Developmental Patterns Using In Vivo Multiphoton Microscopy

Charles Little (Kansas Univ. Medical Center)

Integrating Cell and Tissue Motion Patterns during Early

Embryogenesis: How Much "Cell Migration" Really Occurs?

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.

PROFESSIONAL DEVELOPMENT TRACK

Managing Workplace Conflict:

Phillip Glenn (Emerson College)

Part 1 – Understanding Conflict: Assessing Your Own Tendencies

Part 2 - Developing Core Skills for Managing Conflict

This is a two-part workshop. There is no charge, but advanced registration is required.

EDUCATION & TEACHING TRACK

Current Research on Curricular Changes and Their Impact on Student Knowledge

Co-sponsored by Anatomical Sciences Education Chair: Richard Drake (Cleveland Clinic Lerner College of Medicine)

Curricular Integration: How Has It Affected Teaching and Learning in Gross Anatomy?

Chair: Virginia Lyons (Geisel School of Medicine at Dartmouth)

Educational Community Outreach: Get Inspired and Get Out There! [Hybrid Symposium] *

Chair: Barb Puder (Samuel Merritt Univ.)

Master Class: Team-Based Learning in Anatomy Curriculum

Chair: Mary Bee (Oakland Univ. William Beaumont School of Medicine/UDM)

Refresher Course: Histology Teaching – Past, Present and Future

Chairs: Robert Ogilvie (Medical Univ. of South Carolina) & Robert McCuskey (Univ. of Arizona College of Medicine)

Teaching Innovations in Anatomy *

Chairs: Polly Husmann (West Virginia School of Osteopathic Medicine) & Mark Hankin (Univ. of Toledo)

SCIENTIFIC SYMPOSIA

Autophagy, Metabolic Syndrome, and Cardioprotection

Chair: Roberta Gottlieb (San Diego State Univ.)

Development and Reprogramming of Vascular Smooth Muscle

Chair: Charles Little (Kansas Univ. Medical Center)

Brain Interfaces and Their Therapeutic Applications

Chair: Jonathan Wolpaw (Wadsworth Center, NYS Department of Health)

Cell Biological Basis of Complex Morphogenesis [Hybrid Symposium] *

Chair: Andrew Dudley (Univ. of Nebraska Medical Center)

Comparative Perspectives on the Human Face: Biomedical Implications of Evolutionary Anatomical Research

Co-sponsored by The Anatomical Record Chair: Anne Burrows (Duquesne Univ.)

Developmental Backgrounds Underlying the Morphological Evolution of Vertebrates

Co-sponsored by Developmental Dynamics

Chair: Shigeru Kuratani (Center for Developmental Biology, RIKEN)

Evolution of Host-Pathogen Interactions: Understanding How Microbial Pathogens Hijack Host Cells

Chair: Julian Guttman (Simon Fraser Univ.)

Expanding Translational Research and Impacting Patient Care through the Use of Cadaveric Material

Chair: H. Wayne Lambert (West Virginia Univ. School of Medicine)

Frontiers in Cell Migration: Vessels, Neurogenesis and Cancer

Chair: Paul Kulesa (Stowers Institute for Medical Research)

Imaging Live Tissues

Chair: Michiko Watanabe (Case Western Reserve Univ. School of Medicine)

Micro-imaging in Biological Anthropology: Fine Focus on Primate Ontogeny and Evolution

Chair: Tim D. Smith (Slippery Rock Univ.)

Neurobiology of Aging [Hybrid Symposium] *

Sponsored by the Canadian Association for Anatomy, Neurobiology & Cell Biology

Chair: Michael Kawaja (Queen's Univ.)

Neurovascular Development

Chair: Joseph McCarty (MD Anderson Cancer Center)

Novel 3D Imaging with Micro Computed Tomography

Chair: Rick Sumner (Rush Univ. Medical Center)

The Use of Induced Pluripotent Stem Cells in Disease Modeling

Co-sponsored by AAA's Advisory Committee for Young Anatomists

Chair: Lezanne Ooi (Univ. of Wollongong)

Responses to Novel Environmental Stimuli: Induction and Epigenetic Inheritance [Hybrid Symposium] *

Chair: Yoav Soen (Weizmann Institute of Science)

The Skinny on Fat: Adipose Tissue and Stem Cells

Chair: Julie Fradette (Université Laval/LOEX)

SCIENTIFIC PLATFORM SESSIONS

Cardiovascular Biology *

Chair: Katja Schenke-Layland (Fraunhofer Institute for Interfacial Engineering and Biotechnology (IGB)

Development and Disease – It's All about Anatomy *

Chair: Paul Trainor (Stowers Institute for Medical Research)

Form, Function, and Evolution *

Chair: Casey Holliday (Univ. of Missouri)

Tissue Injury, Stem Cells, and Regenerative Medicine *

Chair: Martine Dunnwald (Univ. of Iowa)

*AAA will be accepting abstracts for oral presentation within this session. Please see AAA topic categories, page 38-39.



2013 Annual Meeting of The American Physiological Society

www.apsebmeeting.org

Physiology InFocus: From Animals to Human Models of Disease

Organized by: Sue Barman, Michigan State Univ.

Sunday, April 21, 2013 3:15 PM

Animal Models of the Irritable Bowel Syndrome: Basic and Translational Implications

James J. Galligan

Monday, April 22, 2013, 3:15 PM

Lessons from New Animal Models of Cystic Fibrosis

Paul B. McCray

Tuesday, April 23, 2013, 3:15 PM

Eating Disorders

Mary Boggiano

Wednesday, April 24, 2013, 4:45 PM

From Animals to Human Models of Disease Nobel Lecture in Physiology or Medicine Lecture

Linda Buck

APS Named Lectures and Workshops

Saturday, April 20, 2013, 5:30 PM

Physiology in Perspective – The Walter B. Cannon Memorial

Award Lecture

Michael J. Joyner

Sunday, April 21, 2013, 10:30 AM

Claude Bernard Distinguished Lectureship of the APS Teaching of Physiology Section

Eric Mazur

Education Track

Sunday, April 21, 2013, 2:00 PM

Hugh Davson Distinguished Lectureship of the APS Cell &

Molecular Physiology Section

Amira Klip

Sunday, April 21, 2013, 3:15 PM

Ernest H. Starling Distinguished Lectureship of the APS Water &

Electrolyte Homeostasis Section

Donald E. Kohan

Monday, April 22, 2013, 8:00 AM

Carl Ludwig Distinguished Lectureship of the APS Neural Control

& Autonomic Regulation Section

Roger A.L. Dampney

Blood Pressure Regulation Track

Central Control of Homeostasis Track

Monday, April 22, 2013, 10:30 AM

Solomon A. Berson Distinguished Lectureship of the APS

Endocrinology & Metabolism Section

Ellis R. Levin

Blood Pressure Regulation Track

Monday, April 22, 2013, 2:00 PM

Edward F. Adolph Distinguished Lectureship of the APS

Environmental and Exercise Physiology Section

Douglas R. Seals

Monday, April 22, 2013, 3:15 PM

Joseph Erlanger Distinguished Lectureship of the APS Central

Nervous System Section

Charles W. Bourque

Blood Pressure Regulation Track

Central Control of Homeostasis Track

Monday, April 22, 2013, 3:15 PM

Carl W. Gottschalk Distinguished Lectureship of the APS Renal

Section

Jeff Sands

Tuesday, April 23, 2013, 10:30 AM

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

Respiration Section

Aron Fisher

Tuesday, April 23, 2013, 2:00 PM

Robert M. Berne Distinguished Lectureship of the APS

Cardiovascular Section

David J. Lefer

Tuesday, April 23, 2013, 3:15 PM

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

Stan Lindstedt

Physiology Section

Tuesday, April 23, 2013, 3:15 PM

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

Ole Holger Petersen

Saturday, April 20, 2013

8:00 AM

Refresher Course: Immunology for the Physiologist

Michael J. Ryan and Kim Henige Sponsored by: Education Committee Education Track

9:00 AM

Microcirculatory Society President's Symposium: Cellular and Noncellular Modes of Communication Across the Blood Vessel

Michael Hill

1:00 PM

How to be a Science Advocate in Your Own Backyard

R. Brooks Roby and Gina Yosten
Sponsored by: Science Policy Committee
Education Track

Career Development Track

Rodent Experimentation Workshop

Sean Stocker Education Track

2:00 PM

Microcirculatory Society President's Symposium II/Young Investigator Novel Trends

3:00 PM

APS Communications Committee Symposium

Education Track

3:15 PM

Trainee Award Finalists Session and Data Diuresis

Sponsored by: Water and Electrolyte Homeostasis Section

Bioinformatics and Modeling 101: How to Use Your Office Computer for Discovering/Simulating Physiological Networks of Your Favorite Genes

Bina Joe Education Track 5:30 PM

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

Michael J. Joyner

7:00 PM

Opening Reception

Sunday, April 21, 2013

8:00 AM

Emerging Concept: Central Mechanisms Involving Brain Renin-Angiotensin System and Inflammation in Hypertension and Cardiovascular Disease

Mohan K. Raizada and Yumei Feng

Sponsored by: Neural Control and Autonomic

Regulation Section

Blood Pressure Regulation Track

Inflammation and Immune Response Track

Emerging Concepts in AMPK Function

Judy Creighton and Jaroslaw Zmijewski

Laboratory Exercises, Case Studies and Models for Teaching Physiological Concepts

Nancy Lorr

Sponsored by: Teaching of Physiology Section

Lymph Collectors as Active Players: Immunity, Nutrients, Fluid Flow

Anatoliy A. Gashev and Laura Santambrogio Sponsored by: Cardiovascular Section Inflammation and Immune Response Track Translational Physiology Track

New Experimental Approaches to Human Brain Function in Health and Disease

Michael J. Friedlander

Sponsored by: Society for Experimental Biology

and Medicine

Nrf2 Signal Pathway in Human Diseases as Novel Therapeutics

Eugene W. Shek and Ira J. Smith

Sponsored by: Physiologists in Industry Group

Physiological Genomic Approaches in Hypertension Research

David L. Mattson

Sponsored by: Physiological Genomics Group

Blood Pressure Regulation Track

Platelet-Immune Cell Interactions in Cardiovascular Diseases

Rolando Rumbaut and Elena Y. Senchenkova Sponsored by: Cardiovascular Section Inflammation and Immune Response Track Translational Physiology Track

Targeting Hypoxic Pathways for Therapeutic Benefit

Cormac T. Taylor Sponsored by: Hypoxia Group Hypoxia and Oxidative Stress Track

Translational Research in Kidney Disease, Hypertension, and Electrolyte Disorders

Paul A. Welling Sponsored by: Water and Electrolyte Homeostasis Section and Renal Section

10:30 AM

Bioengineering of Regenerative Medicine

Song Li

Sponsored by: Biomedical Engineering Society

Claude Bernard Distinguished Lectureship of the APS Teaching of Physiology Section

Eric Mazur

Fishing with Flies, Worms and Bacteria: Emerging Models for Mammalian Membrane Transport and Trafficking

David T. Thwaites

Sponsored by: The Physiological Society

Genetics and Pharmacogenomics of Cardiovascular and Renal Diseases

Bina Joe and Allen W. Cowley, Jr. Sponsored by: Physiological Genomics Group Translational Physiology Track

Inflammation and Cardiorespiratory Control

Frank L. Powell

Sponsored by: Respiration Section

Inflammation and Immune Response Track

Molecular Imaging for Physiological Understanding

Albert J. Sinusas and Wawrzynieck Dobrucki Sponsored by: Cardiovascular Section Inflammation and Immune Response Track Translational Physiology Track

Regulation of Ion Transport in the Aldosterone-Sensitive Distal Nephron

Alexander Staruschenko and Donald E. Kohan Sponsored by: Renal Section Transporters and Ion Channels Track

SLC26 Transporters in Epithelial Secretion

Shmuel Muallem and Viktoria Venglovecz Sponsored by: Cell and Molecular Physiology Section Transporters and Ion Channels Track

Sympathetic Activity in Blood Pressure Regulation: Sodium and Hormonal Mechanisms

Gregory Fink

Sponsored by: Central Nervous System Section Blood Pressure Regulation Track Central Control of Homeostasis Track Translational Physiology Track

The Impact of Pathogens on the Vasculature

Karen Stokes and Felicity Gavins
Sponsored by: Cardiovascular Section
Inflammation and Immune Response Track
Translational Physiology Track

2:00 PM

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

Amira Klip

3:15 PM

Biology Education: Incentives and Strategies for Change

Stasinos Stavrianeas and Vikki McCleary Education Track

Education Track

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

Donald E. Kohan

Microcirculatory Society Landis Award Lecture

Michael Hill

Mitochondrial Dynamics and Turnover with Exercise

David A. Hood

Sponsored by: Environmental and Exercise Physiology Section

Mitochondrial Phospholipids, Aldehydes, and Protein Carbonyls: An Evaluation of the Good, Sometimes Good, and Ugly Consequences of Dietary PUFAs.

Ethan J. Anderson and William C. Stanley

Sponsored by: Endocrinology and Metabolism Section

Metabolic Diseases Track

Monaminergic Control of Breathing during Development

Kevin J. Cummings and Matthew R. Hodges Sponsored by: Respiration Section Physiology of Development Track

Neuronal Membrane/Lipid Rafts: Organizers of Membrane Signaling, Neuritic Growth and Guidance

Brian P. Head and Dermot Cooper Sponsored by: Central Nervous System Section Central Control of Homeostasis Track

Physiology and Pathology of Chloride Transporters in CNS

F. Javier Alvarez-Leefmans and Eric Delpire Sponsored by: Cell and Molecular Physiology Section

Regulation of Renal Tubule Function

Gerhard Giebisch and Michael Caplan Sponsored by: Renal Section Transporters and Ion Channels Track

Vascular Cognitive Impairment: Emerging Concepts and Pathophysiology

Anna Csiszar and Junie Paula Warrington Sponsored by: Cardiovascular Section Hypoxia and Oxidative Stress Track Translational Physiology Track

4:15 PM

WEH New Investigator Award Lecture

Sponsored by: Water and Electrolyte Homeostasis Section

5:45 PM

The Henry Pickering Bowditch Memorial Award Lecture Jonathan D. Tune

Monday, April 22, 2013

8:00 AM

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

Roger A.L. Dampney Blood Pressure Regulation Track Central Control of Homeostasis Track

Concept Inventories: Assessing Concepts and Competencies to Improve Learning and Teaching

Jenny McFarland

Sponsored by: Teaching of Physiology Section

Hypertension: Mechanisms and Consequences

Dan Kapusta

Sponsored by: Water and Electrolyte

Homeostasis Section

Ion Channels in Health and Disease

Kirk Hamilton and Claudia Bertucio Sponsored by: Cell and Molecular Physiology Section Transporters and Ion Channels Track

Natriuretic Peptides in Plants and as Biologic Markers and Treatment of Congestive Heart Failure and Cancer

David L. Vesely

Sponsored by: American Federation for

Medical Research

Origins of Cells that Contribute to Pulmonary Epithelial and Vascular Remodeling

Susan Majka and Diego Alvarez Sponsored by: Respiration Section

Publishing 101: How to Get Your Work Published in APS Journals and Avoid Minefields Along the Way

Hershel Raff and Rita Scheman

Sponsored by: Publications Committee

Signaling Mechanisms in Cardiac, Lymphatic and Smooth Muscle Contraction

Sanjukta Chakraborty and Joshua P. Scallan Sponsored by: Cardiovascular Section Hypoxia and Oxidative Stress Track Translational Physiology Track

Trainee Highlights in Physiological Genomics Featured Topic

Harold G. Klemcke and Carol P. Moreno Quinn Sponsored by: Physiological Genomics Group Translational Physiology Track

10:30 AM

Brainstem Autonomic Pathway in Health and Disease

Tanja Babic

Sponsored by: Central Nervous System Section

Blood Pressure Regulation Track Central Control of Homeostasis Track Metabolic Diseases Track

Cell Stress in Lung Disease

Michael Koval and Surafel Mulugeta Sponsored by: Respiration Section

Microcirculatory Society Young Investigator Symposium: Signal Transduction – Ion Channels to Signaling Molecules

CEPS Abstract-Driven Trainee Session

Heidy Contreras and Scott Kirkton Sponsored by: Comparative and Evolutionary Physiology Section

Mechanosensory Mechanisms in the Kidney

Oleh Pochynyuk and Alexander Staruschenko Sponsored by: Renal Section Transporters and Ion Channels Track

Novel Roles of Hormones in Blood Pressure Regulation

Jennifer Sullivan and Jennifer Sasser Sponsored by: Water and Electrolyte Homeostasis Section

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

Ellis R. Levin

Blood Pressure Regulation Track

Therapeutic Cranial Cooling and Selective Brain Cooling in Humans

Matthew White and Craig Crandall Sponsored by: Environmental and Exercise Physiology Section

Tight Junctions in Epithelial Homeostasis: Beyond Paracellular Barrier

Le Shen

Sponsored by: Gastrointestinal and Liver

Physiology Section

Wiggers Award Featured Topic: Novel Pathways Regulating Microvascular Tone and Function

David D. Gutterman

Sponsored by: Cardiovascular Section

2:00 PM

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

Douglas R. Seals

3:15 PM

Bone Physiology under Environmental Stress

Tomasz Owerkowicz

Sponsored by: Comparative and Evolutionary Physiology Section

Carl W. Gottschalk Distinguished Lectureship of the APS Renal Section

Jeff Sands

Central Nervous System Modulation of Cardiorespiratory Responses to Hypoxia

Irene C. Solomon

Sponsored by: Hypoxia Group
Hypoxia and Oxidative Stress Track
Central Control of Homeostasis Track

Gastric Control of Appetite and Energy Metabolism

Weizhen Zhang and Yvette Tache

Sponsored by: Neural Control and Autonomic

Regulation Section

Metabolic Diseases Track

Hypertension: From Flies to Humans

Pedro A. Jose

Sponsored by: Water and Electrolyte

Homeostasis Section

Joseph Erlanger Distinguished Lectureship of the APS Central Nervous System Section

Charles W. Bourque

Blood Pressure Regulation Track Central Control of Homeostasis Track

Microbial Regulation of Membrane Transport

Jennifer Bomberger and Megan M. Greenlee Sponsored by: Cell and Molecular Physiology Section Transporters and Ion Channels Track

Molecular Bioengineering

Chris Chen

Sponsored by: Biomedical Engineering Society

Novel Signaling Molecules in Vascular Injury and Inflammation

Milton Hamblin and Petra Rocic Sponsored by: Cardiovascular Section

Inflammation and Immune Response Track

Translational Physiology Track

Programming the Lung: Epigenetic Mechanisms

Lester Kobzik and Sadis Matalon Sponsored by: Respiration Section

Tuesday, April 23, 2013

8:00 AM

Assessing Postganglionic Sympathetic Neuronal Discharge Patterns: Implications for Understanding Aberrant Sympathetic Outflow

J. Kevin Shoemaker and Mark Knuepfer

Sponsored by: Neural Control and Autonomic

Regulation Section

Blood Pressure Regulation Track

Central Control of Homeostasis Track

Communicating Science to Non-Scientists: Keys to Funding and Visibility

Sonya D. Coaxum and Lisa R. Leon

Sponsored by: Careers in Physiology Committee

Career Development Track

Hans Ussing Award

Nuria M. Pastor-Soler

Sponsored by: Epithelial Transport Group

Transporters and Ion Channels Track

Integrative Physiology of Hormonal and Neural Effects Following Gastric Bypass Surgery

Kirsteen Browning and Andras Hajnal

Sponsored by: Central Nervous System Section

Central Control of Homeostasis Track

Metabolic Diseases Track

Translational Physiology Track

Matrix Metalloproteinases in the Cardiovascular System

Richard Schulz and Paras K. Mishra Sponsored by: Cardiovascular Section Inflammation and Immune Response Track Translational Physiology Track

Microvascular Responses and Thermoregulatory Control in Normal and Clinical Populations

W. Larry Kenney Sponsored by: Environmental and Exercise Physiology Section

Neuroendocrine Regulation of the Mammalian Reproductive Axis

William Colledge

Sponsored by: The Physiological Society

Novel Interventions for Treating Obesity and Type 2 Diabetes

Thomas H. Reynolds and Joseph T, Brozinick Sponsored by: Endocrinology and Metabolism Section Metabolic Diseases Track

Oxidative Stress

My Helms and Stefanie Niederlechner Sponsored by: Cell and Molecular Physiology Section Hypoxia and Oxidative Stress Track

10:30 AM

Epigenetics and Exercise

Mark Hargreaves Sponsored by: Environmental and Exercise Physiology Section

Inflammation as an Orchestrator in Heart Failure

Raffaele Altara and W. Matthijs Blankesteijn Sponsored by: Cardiovascular Section Inflammation and Immune Response Track Translational Physiology Track

Integrative Cardiovascular and Respiratory Physiology of Non-Model Organisms

John Eme Sponsored by: Comparative and Evolutionary Physiology Section

Ion Transport in Cell Differentiation, Migration, Polarization and Adhesion

Roger T. Worrell Sponsored by: Cell and Molecular Physiology Section Transporters and Ion Channels Track

Is There a Physiological Role for C-Peptide?

Christine Maric-Bilkan and Gina Yosten Sponsored by: Endocrinology and Metabolism Section Metabolic Diseases Track

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

Aron Fisher

Sponsored by: Respiration Section

Neurotransmission and Ca^{2+} -sensitization in Gastrointestinal Smooth Muscles

Brian A. Perrino

Sponsored by: Gastrointestinal and Liver Physiology Section

Obesity and Inflammation: Contributions to Vascular and Renal Disease

Carmen De Miguel Sponsored by: Water and Electrolyte Homeostasis Section

The Role of ER Stress in Cardiovascular Disease

Robin L. Davisson and Dongsheng Cai Sponsored by: Neural Control and Autonomic Regulation Section Blood Pressure Regulation Track Central Control of Homeostasis Track Hypoxia and Oxidative Stress Track

Tissue Engineering of Epithelial Organs: Applications to Physiology and Disease

Tracy C. Grikscheit

2:00 PM

Robert M. Berne Distinguished Lectureship of the APS Cardiovascular Section

David J. Lefer

3:15 PM

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

Stan Lindstedt

Brain Renin-Angiotensin Signaling in Metabolic Diseases

Kamal Rahmouni Sponsored by: Neural Control and Autonomic Regulation Section Metabolic Diseases Track

Branched-Chain Amino Acids in Obesity and Insulin-Resistance: Friend or Foe?

Tracy G. Anthony and Sean Adams

Sponsored by: Endocrinology and Metabolism Section

Metabolic Diseases Track

Cardio-respiratory Function/Integration in Health and Disease

Kendall F. Morris and David M. Baekey Sponsored by: Respiration Section

G Protein-Coupled Estrogen Receptor 1 (GPER1/GPR30): The Receptor Mediating Acute Estrogen and Aldosterone Effects?

Jeppe Praetorius and Bjorn Olde Sponsored by: Renal Section

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

Ole Holger Petersen

Membrane Dynamics in Regulation of Cell Function

Hemal H. Patel and Adam Kassan Sponsored by: Cell and Molecular Physiology Section

Satellite Cells in Muscle Hypertrophy

Ole Holger Petersen and John McCarthy Sponsored by: Muscle Biology Group

Steve Hebert Award

Sponsored by: Epithelial Transport Group Transporters and Ion Channels Track

Taming The Sleeping Giant: Control of the Peripheral Circulation during Exercise

D. Walter Wray and Leryn Boyle Sponsored by: Cardiovascular Section Blood Pressure Regulation Track Translational Physiology Track Central Control of Homeostasis Track

5:45 PM

APS Business Meeting

Wednesday, April 24, 2013

8:00 AM

Assembly and Trafficking to the Intestinal Brush Border

James R. Goldenring Sponsored by: Gastrointestinal and Liver Physiology Section

Crosstalk between 1-Carbon Metabolism and Pathways Associated with Metabolic Diseases

Li Wang

Sponsored by: Endocrinology and Metabolism Section Metabolic Diseases

microRNA and Stem Cell in Muscle Pathophysiology

Paras K. Mishra

Sponsored by: Muscle Biology Group

NCAR Trainee Featured Topic

Eric Lazartiques

Sponsored by: Neural Control and Autonomic

Regulation Section

Career Development Track

Education Track

Neurotrophins in the Respiratory System

Y. S. Prakash and Gary C. Sieck Sponsored by: Respiration Section

New Insights on the Cellular Ca²⁺ Mechanisms

Benedito Machado and Rodrigo Iturriaga Sponsored by: Association of Latin American Physiological Societies

Nutrients and Cardiovascular Health and Disease: Glucose, Fatty Acids and Beyond

John C. Chatham and Susan A. Marsh Sponsored by: Cardiovascular Section Metabolic Diseases Track Translational Physiology Track

The Role of Psychological Stress and Depression in Determining Cardiovascular Disease Risk –The Use of Animal Models and Clinical Application

Paul Marvar and Angela Grippo Sponsored by: Cardiovascular Section Blood Pressure Regulation Track Translational Physiology Track

The Study of Injury and Repair in Multiple Organ Systems: Serendipity in Translational Research

Robert Freishtat and Eng H. Lo Sponsored by: American Federation for Medical Research

10:30 AM

Are Cellular Mechanisms Necessary to Understand Evolution (and vice-versa)?

John S. Torday and Neil Blackstone Sponsored by: Comparative and Evolutionary Physiology Section

Extrinsic and Intrinsic Mechanisms Underlying Myocardial Dysfunction and Heart Failure

Farah Sheikh and Valeria Mezzano Sponsored by: Cardiovascular Section Inflammation and Immune Response Track Translational Physiology Track

Oxidative Stress-Induced Endothelial Cell Reprogramming

Richard D. Minshall and Norbert Voelkel Sponsored by: Respiration Section Hypoxia and Oxidative Stress Track

Prometheus Unplugged: Basic Mechanisms of Liver Regeneration

Udayan Apte and George K. Michalopoulos Sponsored by: Gastrointestinal and Liver Physiology Section

Recent Advances in Understanding Mechanisms Regulating Breathing During Exercise

Hubert V. Forster and Jerome Dempsey

Regulation of Epithelial Transport Processes via Post-Translational Modifications

Nuria M. Pastor-Soler and Kwang-Jin Kim Sponsored by: Epithelial Transport Group Transporters and Ion Channels Track

Sex-Based Differences in Exercise Metabolism

Stuart Phillips and Mark Tarnopolsky Sponsored by: Environmental and Exercise Physiology Section

The Role of Akt/mTor Pathway in Muscle Growth and Rejuvenation

Charles J. Steenbergen
Sponsored by: Muscle Biology Group

Translation Research: From Bench to Bedside

Julie Rennison and Annie Whitaker Sponsored by: Trainee Advisory Committee

William Beaumont: America's First Physiologist and Pioneer of Gastrointestinal Research

Jay B. Dean and Kathy L. Ryan Sponsored by: History of Physiology Group and Gastrointestinal and Liver Physiology Section

2:30 PM

Cell-based Therapy for the Heart and Kidney: From Bench to

Alejandro R. Chade and David P. Basile Sponsored by: Translational Physiology Group Translational Physiology Track

Developmental Origins of Cardiovascular Diseases

Urs Scherrer and Linda E. May Sponsored by: Cardiovascular Section Hypoxia and Oxidative Stress Track Translational Physiology Track

Emerging Concepts in Understanding Mechanisms of Diabetes

William M. Chilian

Current Concepts in Brown Adipose Tissue and Human Energy Balance

John W. Castellani Sponsored by: Environmental and Exercise Physiology Section

Hypoxic Chemotransduction: Defining the Oxygen-Sensors

Christopher N. Wyatt

Sponsored by: Respiration Section

Central Control of Homeostasis Track

NIH Funding Agencies

Hannah V. Carey and John C. Chatham Sponsored by: Science Policy Committee Career Development Track

Physics of Cancer

Owen McCarty and Michael King Sponsored by: Biomedical Engineering Society

The Aging Myocardium: Structural Remodeling in Health and Disease

Margaux A. Horn and Gary L. Pierce Sponsored by: Cardiovascular Section Hypoxia and Oxidative Stress Track Translational Physiology Track

The Changing Face of Tenure

Kathleen P. O'Hagen and Anne M. Dorrance Sponsored by: Women in Physiology Committee Career Development Track



2013 Annual Meeting of the American Society for Biochemistry and Molecular Biology

www.asbmb.org/meeting2013

ASBMB 2013 AWARD and PLENARY LECTURES

Herbert Tabor Research Award (New)

F. Ulrich Hartl, Max Planck Institute for Biochemistry and Arthur L. Horwich, HHMI/Yale School of Medicine

Alice and C.C. Wang Award in Molecular Parasitology and Symposium

Daniel E. Goldberg, HHMI/Washington University School of Medicine in St. Louis

ASBMB Award for Exemplary Contributions to Education

James M. Ntambi, University of Wisconsin at Madison

ASBMB-Merck Award

Vivek Malhotra, Centre for Genomic Regulation

ASBMB Plenary Lecture

Melanie Cobb, UT Southwestern Medical Center

ASBMB Young Investigator Award

Shu-ou Shan, California Institute of Technology

Avanti Award in Lipids

Susan A. Henry, Cornell University

DeLano Award for Computational Biosciences

Helen M. Berman, Rutgers University

Earl and Thressa Stadtman Distinguished Scientist Award

Brian K. Kobilka, Stanford University School of Medicine

Fritz Lipmann Lectureship

Olke C. Uhlenbeck, Northwestern University

Mildred Cohn Award in Biological Chemistry (New)

Jennifer A. Doudna, HHMI/University of California, Berkeley

Ruth Kirschstein Diversity in Science Award

Peter Blumberg, National Institutes of Health

Walter A. Shaw Young Investigator Award in Lipid Research

Tobias Walther, Yale School of Medicine

William C. Rose Award

Ivan Dikic, Goethe University School of Medicine

PRELIMINARY PROGRAM

ASBMB 2013 Annual Meeting Program Planning Committee Co-Chairs:

Carol A. Fierke, University of Michigan () and Patrick Sung, Yale University ()

Genome Replication and Repair

Theme Organizers:

Stephen Bell, HHMI/MIT () and Lei Li, MD Anderson Cancer Center ()

SYMPOSIA

Coordinating Functions at the Replication Fork

Stephen Bell*, Anja Groth, Johannes Walter, Virginia Zakian

Mechanism and Control of Replication Initiation

Oscar Aparicio, Stephen Bell, Karim Labib, Virginia Zakian*

Activation of DNA Damage Signaling

Daniel Durocher, Lei Li*, Stephen West, Lee Zou

Mechanisms of Genomic Stability

Steve Elledge, Lei Li, KJ Patel ⁺

Mechanisms of Gene Transcription and Regulation

Theme Organizers:

Stephen Buratowski, Harvard Medical School (**a**) and Geeta Narlikar, UCSF (**a**)

SYMPOSIA

Chromatin Remodeling During Transcription

Gregory Bowman, Brad Cairns, Geeta Narlikar*, Jessica Tyler

(III) ASBMB Annual Meeting Program Planning Committee member (*) session chair (†) session chair and speaker

Transcription Mechanisms

Stephen Buratowski, Michael Carey, Ann Hochschild, Robert Kingston*

Co-transcriptional Coupling Mechanisms

Karen M. Arndt, Stephen Buratowski*, Steven Hanes, Liang Tong

Repressive Chromatin

Wendy Bickmore, Robert Kingston, Geeta Narlikar, Jessica Tyler*

RNA Function and Protein Synthesis

Theme Organizers:

Rachel Green, Johns Hopkins University School of Medicine (IIII) and Daniel Herschlag, Stanford University (III)

SYMPOSIA

How RNA Molecules Behave and Misbehave?

Hashim Al-Hashimi, Rhiju Das, Daniel Herschlag*, Rick Russell

Making and Using RNA in the Nucleus

Jeff Coller*, Kathy Collins, Klemens Hertel, Kristen Lynch

RNA in the Cytoplasm: Translation and Degradation

Jeff Coller, Rachel Green, Kristen Lynch*, Tao Pan

Frontiers in RNA Biology

Rachel Green*, Daniel Herschlag, Luciano Marraffini, Sean Ryder

Glycan Regulation of Signaling Pathways

Theme Organizers:

Pamela Stanley, Albert Einstein College of Medicine (and Lance Wells, University of Georgia ()

SYMPOSIA

O-Mannose Glycans and Muscular Dystrophy

Kevin P. Campbell, Pamela Stanley*, Sabine Strahl, Lance Wells

Glycosyltransferases that Control Cell Growth and Differentiation

Richard Cummings, Michael Demetriou, Pamela Stanley, Lance Wells*

Roles for Glycans in Notch Signaling

Susan E. Cole, Robert Haltiwanger, Linda Hsieh-Wilson *, John B. Lowe



Regulation of Gene Expression by O-GlcNAc

Robert Haltiwanger*, Linda Hsieh-Wilson, Keith Vosseller, Suzanne Walker

Protein Modification, Trafficking and Degradation

Theme Organizers:

Daniel Finley, Harvard Medical School (III) and Maurine Linder, Cornell University (III)

SYMPOSIA

Ubiquitin and Ubiquitin-Like Modifications

Heran Darwin*, Daniel Finley, Richard Gardner, Brenda Schulman

The Multivesicular Body and Endocytosis

Scott Emr, Sandra Schmid, Brenda Schulman*, Wes Sundquist

Mechanisms of Bacterial Pathogenesis

Neal M. Alto+, Heran Darwin, Feng Shao

Regulatory Thiol Modifications

Maurine Linder⁺, Nicholas Tonks, Joost van Dongen

WORKSHOP

Proteomics of Post-translational Modifications

Steven P. Gygi*, Neil Kelleher, Brent Martin, Judit Villen

Lipids and Membranes

Theme Organizers:

Tobias Baumgart, University of Pennsylvania (**a**) and Marion B. Sewer, UCSD (**a**)

(a) ASBMB Annual Meeting Program Planning Committee member (*) session chair (†) session chair and speaker

SYMPOSIA

Lipid Signaling in Health and Disease

Rosalind Coleman*, Seth Field, Marion B. Sewer, Sarah Spiegel

Lipid Membrane Curvature in Membrane Function

Tobias Baumgart, Volker Haucke, Jennifer Lippincott-Schwartz*, Harvey McMahon

Lipid Trafficking and Sorting

Tobias Baumgart*, Sima Lev, Jennifer Lippincott-Schwartz, Mark von Zastrow

Lipids In Nutrient Metabolism and Metabolic Dysfunction

Rosalind Coleman, L. Ashley Cowart, Kristina Schoonjans, Marion B. Sewer *

Chemical and Systems Biology

Theme Organizers:

Shelley D. Copley, University of Colorado, Boulder (a) and Anna K. Mapp, University of Michigan (b)

SYMPOSIA

Function and Evolution of Metabolic Networks

Shelley D. Copley, Ralph DeBerardinis*, Uwe Sauer, Dennis Vitkup

Controlling Cellular Communication

Deborah Hung, Laura Kiessling, Anna K. Mapp*, Christian Melander

Manipulating Metabolic Networks

Shelley D. Copley*, Ralph DeBerardinis, Kristala L. J. Prather, Joshua Rabinowitz

Assembly and Control of Dynamic Protein Complexes

Julie Deborah Forman-Kay, Deborah Hung*, Anna K. Mapp, Peter E. Wright

Catalytic Mechanisms

Theme Organizers:
Enrique M. De La Cruz, Yale University (■) and
Catherine Drennan, MIT (■)

SYMPOSIA

Bioenergy

Joan Broderick, Gary W. Brudvig, Catherine Drennan, JoAnne Stubbe*

Catalytic and Substrate Promiscuity

Shelley D. Copley*, Florian Hollfelder, Brian G. Miller, Joseph P. Noel

Cool Catalysis and Radically New Reaction Mechanisms

Vahe Bandarian, Joan Broderick*, Danica Fujimori, JoAnne Stubbe

Molecular Motor Proteins – Force and Work as Products

Enrique M. De La Cruz⁺, Susan P. Gilbert, E. Michael Ostap

Mechanisms of Signal Transduction

Theme Organizers:

Kun-Liang Guan, UCSD () and

Carol Lange, University of Minnesota Masonic Cancer Center (

SYMPOSIA

Mechanisms of Cell Growth and Autophagy Regulation

Kun-Liang Guan, J. Silvio Gutkind*, Naboru Mizushima, Qing Zhong

Protein Phosphorylation Networks

Natalie Ahn, Roger J. Davis, Jack E. Dixon, Carol Lange*

G-proteins in Cellular Regulation

Joan H. Brown, Jerold Chun, Kun-Liang Guan*, J. Silvio Gutkind

Mechanisms of Signaling Specificity in Cell Fate: Growth, Proliferation or Death?

John Blenis, Melanie Cobb*, Carol Lange, Deborah Ann Lannigan

Triple Negative Breast Cancer

sponsored by the ASBMB Minority Affairs Committee Theme Organizers:

KiTani Parker-Johnson, Xavier University of Louisiana (III) and Gloria Thomas, Xavier University of Louisiana (III)

SYMPOSIA

Back to the Basics: The Biology of Breast Cancer

Stefan Ambs, KiTani Parker-Johnson, Gloria Thomas*, Patricia Thompson

Breast Cancers that Elude Successful Treatments: Triple Negative Breast Cancer

Chindo Hicks*, Brian Lehmann, Matthew Meyerson, Eddie Reed

Genomics: Successes and Challenges in Identifying Novel Targets in Minority Populations

Chindo Hicks, Fatiima Jackson, Rick Kittles, Eddie Reed*

ASBMB Minority Affairs Committee sponsored issues-based symposium

Jobs in Industry

Nestor Concha*, Garry D. Dotson, Sharon Haynie, Lana Saleh

Computational Tools for Assigning Enzymatic Functions Workshop

sponsored by the Enzyme Function Initiative, NIGMS
Patricia C. Babbitt *, John A. Gerlt*, Matthew P. Jacobson, Andrej
Sali, Brian Shoichet

(III) ASBMB Annual Meeting Program Planning Committee member (*) session chair (†) session chair and speaker

Transitions

sponsored by the ASBMB Education and Professional Development Committee

Theme Organizers:

Peter J. Kennelly, Virginia Polytechnic Institute & State Univ (III) and Dorit Zuk, NIH (III)

SYMPOSIA

Transitioning Beyond the Bench

Jeff Cruzan, Joan Ferrini-Mundy*, Robert Plotkin, Dorit Zuk

Navigating Mid-Career Transitions

Olivera Finn, Deb Koen, Andrew D. Robertson, Dorit Zuk*

Transitioning from Student to Professional

Olivera Finn*, Peter Kennelly, Leslie Pond, Rodney Ulane

Training for a World in Transition

Susan Elrod, Joan Ferrini-Mundy, Peter Kennelly*, Leslie Kuhn

Promoting Concept Driven Teaching Strategies in BMB through Concept Assessments

Ellis Bell $^{\scriptscriptstyle +}$, Kim Linenberger, Jennifer Momsen, Cheryl Sensibaugh, Karen Sirum

WORKSHOP

Beyond College: Coping with Some Common Challenges

A workshop for undergraduates Nancy Wendlandt , Dorit Zuk⁺

ASBMB Science Policy Symposium

sponsored by the ASBMB Public Affairs Advisory Committee Session details visit www.asbmb.org/meeting2013

ASBMB Public Outreach and Science Communication

sponsored by the ASBMB Public Outreach Committee Organizers:

Hannah Alexander, University of Missouri and Tom Baldwin, UC, Riverside

This interactive program teaches attendees techniques for effectively communicating their science to the lay public, including a behind-the-scenes look at how to host your own science café, followed by an actual café and networking event.

WORKSHOP/EVENTS

From the Lab to the Kitchen Table – Communicating Science to a Lay Audience

Hannah Alexander, P.A. d'Arbeloff, Tom Baldwin, Jon Dattelbaum, Ann M. Merchant, Daniella M. Scalice, Morgan Thompson

Science Cafés: The New Social Network

Presented by the team at Sciencecafes.org

"What is a Germ?" Challenge

Can you explain what a germ is to a 5th grader? Step up and enter our, "What is a Germ?" Challenge. Visit www.asbmb.org.

Science Outreach Posters

The ASBMB Public Outreach Committee is accepting volunteered abstracts for poster presentation detailing successful outreach programs that will inform attendees on how to get involved for themselves! Submit to ASBMB topic categories #2411-2415.

SPECIAL EVENTS

- ASBMB Graduate and Postdoctoral Travel Award Plenary Lecture and Poster Session **
- ASBMB Graduate and Postdoctoral Professional Development Program **
- ASBMB Opening Lecture and Reception
- ASBMB Welcome and Networking Reception sponsored by the ASBMB Minority Affairs Committee
- · ASBMB Women Scientists Panel and Networking Reception
- Computational Tools for Assigning Enzymatic Functions Workshop
- Professional Development Workshop for Students, Postdocs and Junior Faculty **
- Proteomics of Post-translational Modifications Workshop
- · Science Cafés, The New Social Network
- Science Outreach Posters
- Thematic Fermentation Happy Hour
- Undergraduate Orientation, A Student's Guide to the ASBMB Annual Meeting
- Undergraduate Breakfast with ASBMB Award Scientists **
- Undergraduate Poster Competition, ASBMB 17th Annual Student Research Poster Competition **
- Undergraduate Workshop, Beyond College: Coping with Some Common Challenges
- · "What is a Germ?" Challenge
- YES Mixer (Young Experimental Scientists)

(**) Advance registration required

ASBMB Travel Awards Guidelines

ASBMB travel award applicants must successfully submit an abstract as first author to an ASBMB topic category (#2000-2408) by the November 8 abstract deadline.

The ASBMB travel award system validates applicant's society membership status at login. To be considered a member, you must be a current ASBMB member at the time of application submission and have paid membership dues for the billing cycle which includes the 2013 Annual Meeting (through Dec, 2013). New ASBMB membership applications require a review and

approval process before membership is activated. Submit a new membership application before November 1, 2012 for complete processing prior to the November 28th ASBMB travel award application deadline. Not all travel awards categories require ASBMB membership.

Visit www.asbmb.org/meeting2013 for a complete list of ASBMB travel award application criteria and award requirements.

17th ANNUAL ASBMB UNDERGRADUATE STUDENT RESEARCH POSTER COMPETITION

Saturday, April 20, 2013

Cash prizes awarded for best poster presentations.

HOW DO I SIGN UP?

- 1) Successfully submit an abstract as first author to a qualifying ASBMB topic category (#2000 2397), by the November 8th deadline. A complete list of ASBMB topic categories is available at www.asbmb.org/meeting2013.
- 2) During abstract submission, undergraduate student must be the first author AND select "Undergraduate" as the first author status/designation.

We strongly recommend the student-first author create the absract submission login using her/his own email address. The advisor's email address must be provided in the sponsor information field. This allows ASBMB to communicate directly with students and their advisors.

- 3) Successful submission requires payment of the \$65 abstract processing fee.
- 4) A unique submission is required from each competitor. There are **NO** "Co-First Authors."

Eligible first authors will receive a "Sign Up," email invite to join the competition. The invite will be sent to the address provided when logging in to submit your abstract. ASBMB can only identify undergraduate abstracts when the first author status, "UNDERGRADUATE," has been selected. All other status selections (including, None of the Above) are not eligible for the competition.

Plan an early arrival on Saturday to complete your EB 2013 meeting registration. A badge is required for access to the Boston Convention and Exhibition Center (BCEC).

For event information visit www.asbmb.org/meeting2013.

CALL FOR VOLUNTEER JUDGES

Have fun and meet lots of great people while volunteering a few hours of service to judge posters! ASBMB needs 125 Pls and PUI faculty members to serve as volunteer judges during the Undergraduate Poster Competition. (Sorry, we cannot accept graduate students or postdocs to serve as judges at this time.) You will not be asked to judge posters from your own institution.

For more information and to sign up, visit www.asbmb.org/meeting2013.



2013 Annual Meeting of the American Society for Investigative Pathology

http://www.asip.org/meetings/2013/program.cfm

LECTURES

ASIP COTRAN EARLY CAREER INVESTIGATOR AWARD LECTURE: ENDOPLASMIC RETICULUM STRESS IN DISEASE PATHOGENSIS

Award Recipient: JONATHAN H. LIN

ASIP EXCELLENCE IN SCIENCE AWARD LECTURE: DYNAMIC PROPERTIES OF TIGHT JUNCTION STRUCTURE AND FUNCTION

Award Recipient: CHRISTOPHER R. WEBER

ASIP OUTSTANDING INVESTIGATOR AWARD LECTURE:
TARGETING THE EPIGENOME FOR IMPROVED TREATMENT OF
TRIPLE-NEGATIVE BREAST CANCER

Award Recipient: WILLIAM B. COLEMAN

ASIP ROUS-WHIPPLE AWARD LECTURE: HOW ENDOTHELIAL CELLS REGULATE TRANSMIGRATION OF LEUKOCYTES IN THE INFLAMMATORY RESPONSE

Award Recipient: WILLIAM A. MULLER

ASMB LECTURE: TBD

Speaker: TBD

Sponsored by ASIP and the American Society for

Matrix Biology

JHC PLENARY LECTURE: TBD

Chair: John R. Couchman

Sponsored by The Histochemical Society

SYMPOSIA

ACVP Symposium: Inside-Out; Extracellular Roles for Heat Shock Proteins

Chairs: Michael Oglesbee and Tim LaBranche

Sponsored by ASIP and the American College of Veterinary

Pathologists

Angiogenesis in Physiology and Pathology

Chair: Patricia A. D'Amore Co-Chair: Diane Bielenberg

A Thousand Ways to Die: Cell Death Stories

Chairs: Andrei I. Ivanov and Kim McCall

Sponsored by ASIP and the Italian Society of Pathology and

Translational Medicine

Biomechanical Forces and the Pathophysiology of the Vascular Wall

Chairs: Guillermo Garcia-Cardena and Bill Luscinskas

Emerging Infections

Chairs: Sherif Zaki and Dan Milner

Extracellular Vesicles, miRNA and Vascular Cell Communication

Chairs: Xandra Breakefield and Bill Luscinskas

HCS Symposium: Proteoglycans – Key Regulators of the Immune Response to Cancer and Infectious Agents

Chairs: Charles W. Frevert and Nancy Sawtell Sponsored by The Histochemical Society

Histological Image Analysis

Chairs: John Tomaszewski and Richard Levenson

Innate Immunity in Lung Pathology

Chairs: Hongwei Gao and Nick Lukacs

Liver Pathobiology Symposium: Flirtin' with Disaster: Liver Injury, Inflammation and the Fast Lane to HCC

Chairs: Arlin Rogers and Paul Monga

Sponsored by the ASIP Liver Pathobiology Scientific

Interest Group

Molecular and Cellular Basis of Disease: Stem Cells, Neoplasia, Development, Wound Healing (Part 1)

Chairs: Clayton Wiley and Peter Shepherd

Molecular and Cellular Basis of Disease: Stem Cells, Wound

Healing, Regeneration and Cancer (Part 2)

Chairs: Alberto Gulino and Paul Monga

Molecular and Cellular Basis of Disease: Stowell Symposium: Cell, Scaffold and Tissue Engineering: Successes Achieved and Hurdles Yet to Overcome

Chairs: Byron E. Petersen and Alejandro Soto-Gutierrez Supported by an unrestricted educational grant from the Robert E. Stowell Endowment Fund

Molecular and Cellular Basis of Disease: Molecular Biology of Inflammation and Non TLR Pattern Recognition Receptors Chairs: Andrew Neish, Asma Nusrat and Themis Kyriakides

Presidential Symposium: HPV: Remaining Challenges in Translational Success Story

Chair: Elizabeth Unger

SCVP Symposium: Inflammatory Myocardial Disease/Myocarditis

Chairs: Andrew H. Lichtman and L. Maximilian Buja Sponsored by ASIP and the Society for Cardiovascular Pathology

WORKSHOPS/SPECIAL SESSIONS

13th Annual Career Development Program and Lunch: Dancing with Journals: A Guide to Submission and Review

Chairs: Diane Bielenberg and George Perry Sponsored by the ASIP Committee for Career Development, Women & Minorities, American Association of Anatomists and the FASEB Maximizing Access to Research Careers (MARC) Program

13th Annual Workshop on Graduation Education in Pathology – Careers in Biotechnology

Chairs: Daniel Remick and Jonathan Reichner Sponsored by the ASIP Education Committee

Blood Vessel Club[™]: microRNAs in the Regulation of Blood Vessel Function

Chairs: William Sessa and Themis Kyriakides

Breast Cancer Scientific Interest Group Networking Event and Poster Session

Chairs: Ashley G. Rivenbark and William B. Coleman Sponsored by the ASIP Breast Cancer Scientific Interest Group

Breast Cancer Workshop: HER2+ Breast Cancer: Biology, Diagnostics and Therapeutics

Chairs: Ashley G. Rivenbark and William B. Coleman Sponsored by the ASIP Breast Cancer Scientific Interest Group

Career Development Workshop and Breakfast: Non-Traditional

Career Opportunities in Pathology

Chairs: Christi Kolarcik and Gary Pasternack

Workshop: Cell Injury: Cell Death and Survival

Chairs: Zhen Yan and Charleen Chu

Sponsored by the ASIP Cell Injury Scientific Interest Group

Club Hepatomania (Liver Pathobiology Scientific Interest Group Networking Event and Poster Session)

Chairs: Kari Nejak-Bowen and S. Paul Monga

Sponsored by the ASIP Liver Pathobiology Scientific Interest

Group

Course: Pathobiology for Basic Scientists: Neoplasia: Fundamental Themes in Neoplasia–When Good Cells Go Bad

Chairs: William B. Coleman and Gregory J. Tsongalis Sponsored by the ASIP Education Committee

Der Schaden Klub (Cell Injury Scientific Interest Group Networking Event and Poster Session)

Chairs: Cecelia C. Yates and Monte S. Willis

Sponsored by the ASIP Cell Injury Scientific Interest Group

Highlights: Graduate Student Research in Pathology

Chairs: Titus A. Reaves

Sponsored by the ASIP Committee for Career Development,

Women & Minorities

High School Teachers Session: Scientific Sleuthing of Human Disease for High School Teachers

Chair: Kari Nejak-Bowen

Sponsored by the ASIP Education Committee

Lunch and Learn: Responsible Conduct in Research Workshop

Chairs: Richard N. Mitchell and S. Paul Monga Sponsored by the ASIP Education Committee

Neuropathology Scientific Interest Group Networking Event and Poster Session

Chairs: Christi Kolarcik and Clayton Wiley

Sponsored by the ASIP Neuropathology Scientific Interest Group

Veterinary Pathology Scientific Interest Group Networking Event and Poster Session

Chairs: Mark McArthur, Elizabeth Galbreath and Elizabeth Whitley Sponsored by the ASIP Veterinary Pathology Scientific Interest Group

Vascular and Mucosal Pathobiology (VAMP) Scientific Interest Group Networking Event and Poster Session

Chairs: Michael Schnoor, David Sullivan and

Francis W. Luscinskas

Sponsored by the ASIP Vascular and Mucosal Pathobiology

(VAMP) Scientific Interest Group



ASIP Events

The American Society for Investigative Pathology will be celebrating its 100th Anniversary during the Experimental Biology 2013 meeting. Attendees interested in the following ASIP organized activities may sign up while registering for the EB2013 meeting. Details of these and other ASIP events will be posted at http://www.asip.org/meetings/2013/

13th Annual Workshop on Graduate Education in Pathology – Careers in Biotechnology

Saturday, April 20, 2013

ASIP Trainee Welcome Reception

Saturday, April 20, 2013

Career Development Workshop and Breakfast: Non-Traditional Career Opportunities in Pathology

Sunday, April 21, 2013

13th Annual Career Development Program and Lunch: Dancing with Journals: A Guide to Submission and Review

Sunday, April 21, 2013

ASIP Centennial Celebration Reception

Monday, April 22, 2013

Lunch & Learn: Responsible Conduct in Research

Tuesday, April 23, 2013

ASIP Scientific Interest Group Networking Events and Poster Sessions

- Breast Cancer Scientific Interest Group Networking Event and Poster Session
- Club Hepatomania (Liver Pathobiology Scientific Interest Group Networking Events and Poster Session)
- Der Schadenklub Cell Injury Scientific Interest Group Networking Reception/Poster Session
- Neuropathology Scientific Interest Group Networking Event and Poster Session
- Veterinary Pathology Scientific Interest Group Networking Event and Poster Session
- Vascular and Mucosal Patholobiology (VAMP) Scientific Interest Group Networking Event and Poster Session

Please sign up for these events when registering for the meeting by checking the boxes on the registration form.



American Society for Nutrition
Excellence in Nutrition Research and Practice

2013 Scientific Sessions and Annual Meeting of the American Society for Nutrition

http://www.nutrition.org/meetings/annual

Symposia

Presidential Symposium: Regulation of Growth and Metabolism through Amino Acid Sensing

Chair: Teresa A. Davis, PhD

Caloric Restriction in Humans: Is it Feasible, Effective and Safe?

Chairs: Susan B. Roberts, PhD and John Speakman, PhD

Metabolomics, Nutrition and Metabolic Disorders

Chair: Naima Moustaid-Moussa. PhD

Nutritional Epigenomics: A Portal to Disease Prevention

Chairs: Sang Woon Choi, MD, PhD and Kevin Schalinske, PhD

Managing the Microbiome in Human Gastrointestinal Disease

Chairs: Penny Kris-Etherton, PhD, RD, Gordon Jensen, MD, PhD

and Thomas Ziegler, MD

Searching for the Evidence that Linoleic Acid Fuels Inflammation

Chairs: Martha Belury, PhD and John W. Finley, PhD

Obesity-Related Inflammation and Vitamin D and Calcium Metabolism

Chairs: Christopher J. Cifelli, PhD and Cristina Palacios, PhD

Nutritional Immunology: Dietary Interventions in Health and Disease

Chairs: Patricia A. Sheridan, PhD and Saame Raza Shaikh, PhD

Brain Imaging and Human Nutrition: Which Measures to Use in Intervention Studies?

Chairs: Stéphane Sizonenko, MD, PhD and John Sijben, PhD

Health, Nutrition and Cost Outcomes of Human Milk Feeding for Very Low Birthweight Infants

Chairs: Lars Bode, PhD and Paula Meier, PhD

Global Perspectives on Preterm Birth and Fetal Growth Restriction: Maternal and Nutritional Influences

Chairs: Ellen Piwoz, ScD and Robert Black, MD, MPH

Are Dietary Bioactives Ready for Review for Recommended Intakes?

Chairs: John Erdman, PhD and Doug Balentine, PhD

Moderate and Mild Iodine Deficiency: A Global Health Problem

Chairs: Christine A. Swanson, PhD, MPH and Elizabeth N. Pearce,

MD, MS

Building Evidence for Sustainability of Food and Nutrition Intervention Programs in Developing Countries

Chairs: Beatrice Rogers, PhD and Sunny Kim, PhD

Exploring Culture in the World of International Nutrition and Nutrition Sciences

Chair: Debbie Humphries, PhD, MPH

The Promises and Pitfalls of Research Using Dietary Patterns

Chairs: Katarzyna Kordas, PhD and Lisa M. Troy, PhD

Public-Private Partnerships: The Evolving Role of Industry Funding in Nutrition Research

Chairs: Matthew A Pikosky, PhD, RD, FACN and Eric Hentges, PhD

Education Track Sessions

Clinical Nutrition Update: A Nutrition Perspective from the Crossroads of Hospital Outcomes and Medicare Policy

Chairs: Mary Ann Johnson, PhD, Connie W. Bales, PhD, RD and

Edward Saltzman, MD

Nutritional Surveys and Epidemiological Studies: Exploring and Enhancing Methods, Interpretation, and Communication

Chairs: John A. Milner, PhD and Marge Leahy, PhD

The World Has Changed and So Must Your Communication Style

Chairs: Cathy Kapica, PhD and Jeannie Gazzaniga-Moloo, PhD, RD

Social Media and Mobile Technology for Nutrition Education and Research

Chair: Sabrina Sales Martinez

The ASN Scientific Program includes the following awards

lectures. Additional information to be announced:

E.V. McCollum Lecture

G.A. Leveille Award and Lectureship

W.O. Atwater Memorial Lecture

Kellogg Prize in International Nutrition Research Lecture

Minisymposia and Poster Sessions

Minisymposia and/or poster sessions will be organized on the following topics:

Aging & Chronic Disease

Community Nutrition Programs and Policies for Older Adults Nutrition Interventions for Risk Factor Modification in Chronic Disease

Nutritional Assessment and Status in Older Populations Nutrition, Sarcopenia and Physical Performance in Older Adults Nutrition and Cognition Across the Lifespan (co-sponsored with Nutritional Epidemiology RIS)

Osteoporosis and Bone Metabolism in Aging

Community and Public Health Nutrition

Community and Public Health Nutrition Interventions Diet, Food Security and Health Promotion in Diverse Communities Health Disparities and Social Equity Food Environment

Food Systems and Food Policy Community and Public Health Program Design:

Theory to Evaluation

CARIG

Carotenoids and Health

Carotenoids and Retinoids: Molecular Mechanisms of Action Bioavailability and Metabolism of Carotenoids and Vitamin A Carotenoids: Eye and Brain Health

Biofortification of Staple Crops with Micronutrients

Diet and Cancer

Diet and Cancer – Molecular Targets Diet and Cancer - Animal Studies

Diet and Cancer - Translational, Clinical and Survivorship

Dietary Bioactive Components

Bioavailability, Metabolism and Biomarkers of Dietary **Bioactive Components**

Mechanisms of Action and Molecular Targets of Dietary **Bioactive Components**

Effects of Dietary Bioactive Components on Experimental Models of Chronic Disease Risk

Antioxidant and Anti-inflammatory Effects of Dietary **Bioactive Components**

Cardiovascular Effects of Dietary Bioactive Components

Dietary Bioactive Components of Medicinal, Functional and Whole Foods (including Probiotics and Fermented Foods)

Energy and Macronutrient Metabolism

Energy Balance, Macronutrients and Weight Management

Obesity and the Metabolic Syndrome

Protein and Amino Acid Metabolism

Lipid and Fatty Acid Metabolism and Transport

Dietary Factors Affecting Lipid Metabolism

Polyunsaturated Fatty Acids and Health

Metabolic Phenotyping, Metabolomics and Biomarkers

Carbohydrate Metabolism

Regulation of Food Intake (co-sponsored with Obesity RIS)

Protein Intake Throughout the Lifecycle

Protein Sources and Dietary Implications

Experimental Animal Nutrition

Companion Animal Nutrition and Physiology Animal Research Models for Macronutrient Metabolism Animal Research Models for Nutrient Digestion

and Absorption Animal Research Models for Gut Development and Health Animal Research Models Investigating Nutrition

and Inflammation

Animal Research Models in Nutrition and Musculoskeletal Development

Lactation

Biology of Milk Production and Secretion Bioactive Compounds and other Milk Constituents Determinants of Lactogenesis, Lactation Duration, and Other Indicators of Lactation Success

Effects of Lactation/Breastfeeding on the Recipient Infant and/or **Lactating Mother**

Nutrition Education

Nutrition Education

Aligning Nutrition Education Programs and Research to Promote Change

Preventing Childhood Obesity

Nutrition Education in Diverse Populations

Development of Evidence-Based Nutrition Education

Behavioral Science and Eating Behavior Change

Nutrition Education during Prenatal and Perinatal Stages of Life

Mini-symposia may be organized by ASN Scientific Councils and Research Interest Sections (RIS), which also program many business meetings, poster competitions, and networking events at the annual meeting. Please visit www.nutrition.org for further details. Not all topics presented in this call will be scheduled into mini-symposia.

Nutrient-Gene Interactions

Nutrient-Gene Interactions

Epigenetics and Autoimmune Disease

Nutrient Effects on Stem Cell Differentiation and Gene Expression Regulation of Intestinal Nutrient Metabolism and Gene Expression

Nutrient Control of Proteomics and Metabolomics

Obesity, Inflammation, and Nutrigenomics

Nutrient-Gene Interaction in Neurodegenerative Diseases: Role of Vitamin D

Nutrient Regulation of Epigenetics in Maternal Programming

Nutritional Epidemiology

Dietary Assessment Tools and Applications

Epidemiological Research Addressing Diet and Health Outcomes Research with Dietary Supplements and Bioactive Components Advancing Nutritional Epidemiology with Public Use and Commercial Data Sets

Assessment of Child and Adolescent Nutritional Status, Growth, and Obesity

Epidemiological and Statistical Approaches for the Study of the Effects of Food on the Microbiome

Nutrition without Borders: Epidemiologic Methods in Examining Health Disparities and Nutrition Outcomes in Diverse Populations

Nutritional Immunology

Nutritional Immunology

Nutrition, Infection and Immunity

Nutrition Translation

The Use of Consumer Research Insights to Guide Scientific Research

Nutrition Science Translation for Policy, Practice and Consumers Understanding and Communicating Benefits/Risks of Natural-State Foods (e.g., minimally processed, natural, organic) Nutrition and Sustainability

Food Related Behaviors and Implications for Food Policy Nutrition Science Applied Through Food Science for Health Novel Food Ingredients and their Impact on Health Translation of Nutrition Science to Public Health

Obesity

Weight Management

Body Composition

Satiety (Co-sponsored wth EMM RIS)

Carbohydrate Intake and Weight Management

Obesity and Chronic Disease

Obesity and Physical Activity

Energy Expenditure

Socioeconomics

Development of Obesity: Dynamics of Physiological and Pathophysiological Parameters

Vitamins and Minerals

Iron, Copper and Chronic Disease

Vitamin D and Obesity – From Cellular to Clinical Trials Water and Fat Soluble Vitamins and Chronic Disease Micronutrient Bioavailability and Antioxidant Function Zinc Selenium

B Vitamins and One-Carbon Metabolism

Micronutrient Interventions

International Nutrition

International Nutrition

Medical Nutrition

Personalized Nutrition

Nutrition and the Microbiome

Interventions for the Treatment and Prevention of Nutrition-

Related Diseases

Nutrition and Inflammation

Prenatal Nutrient Programming

Policy

Community Nutrition Programs and Policies for Older Adults Food Systems and Food Policy

Aligning Nutrition Education Programs and Research to Promote Change

Nutrition Science Translation for Policy, Practice and Consumers Food Related Behaviors and Implications for Food Policy

Education and Teaching

Nutrition Education in Medical and other Professional Schools Nutrition Education for Practicing Clinicians

Innovations in Undergraduate, Graduate and Medical Nutrition Education

Other

Dietary Supplements and Human Performance Sports Nutrition

Special Events

Membership Reception and University Mixer

Awards Ceremony

Graduate Student Breakfast

Department Heads Breakfast

Meet the Editors Session

Fellows, 50-Year Members, and Past Presidents Luncheon Council and RIS Business Meetings and Special Functions

Thank You

ASN thanks its partners that support ASN's scientific symposia, awards, special events and more.

To learn how you can get involved in ASN's Scientific Sessions and Annual Meeting at EB 2013, please contact meetings@nutrition.org.



2013 ASPET Annual Meeting at Experimental Biology | April 20 – 24, 2013 | Boston, MA

www.aspet.org

2013 PRELIMINARY SYMPOSIA

A "Reductionist" Approach to Cardiovascular Disease: Inorganic Nitrate to Nitrite to NO

Chairs: Amrita Ahluwalia and David J. Lefer

Advancing Discoveries from the Academic Laboratory to the Market

Chair: Robert Leadley

Acetaminophen-induced Hepatotoxicity: Lessons Learned During the Last Four Decades Investigating Mechanisms of Toxicity

Chairs: José E. Manautou and Hartmut Jaeschke

Apolipoprotein E: A protein at the Intersection of Vascular and Neurodegenerative Disease Biology

Chairs: Cheryl Wellington and Michael Wood

Bridging the Efficacy Divide: Novel Molecular Insights Driving Biased Ligand Drug Discovery

Chairs: Arthur Christopoulos and Robert J. Lefkowitz

Cognitive Enhancers for the Treatment of Neuropsychiatric Disorders

Chairs: Kathleen M. Kantak and Roger D. Spealman

Correlating Structure-Function and Drug Metabolizing Enzymes

Chair: Emily Scott

Do it Right! Writing Case-Based Exam Items, Interpreting Item Analysis and Designing Educational Research Projects to Assess

Outcomes – A Workshop Chairs: Agata Butler and R. Senthil Kumar

Emerging Technologies for Delivering Neurotherapeutics Across the Blood-Brain Barrier

Chairs: Nisha Nanaware-Kharade and Eric Peterson

Epigenetic Control of Drug Metabolism and Transport

Chairs: Aiming Yu and Yoichi Osawa

Fatty Acid Activation of G Protein-Coupled Receptors: Basic and Clinical Perspectives

Chairs: Graeme Milligan and Celia Briscoe

Innate Immunity and Cardiovascular Disease: Unfolding the

Therapeutic Potential of Toll-Like Receptors Chairs: R. Clinton Webb and Styliani Goulopoulou Local Ca²⁺ Signals in the Endothelium: Key Regulators of Vascular Function and Dysfunction

Chairs: Mark T. Nelson and Robert M. Bryan

Negative Symptoms of Schizophrenia: Neuronal Circuit, Translation and Future Directions

Chairs: Ruggero Galici and Leslie Jacobsen

New Kids on the Block: Organic Cation Transporters and Plasma Membrane Monoamine Transporters in Neurodegenerative, Psychiatric and Addictive Disorders

Chair: Lynette C. Daws

New Roles for Signaling by G Protein Beta/Gamma Subunits
Chair: Alan V Smrcka

Novel Dynamics of cAMP: Towards New Therapeutic Interventions Through Compartmentalized Signaling Networks Chair: Martina Schmidt

Gridin. Martina Germilat

Novel Functions for Cyclic Nucleotide Phosphodiesterases and their Implications for Pharmacological Intervention

Chair: Marco Conti

Orthostatic Intolerance: Insights into Pharmacological, Physiologic and Gender Issues

Chairs: Julian Stewart and Amy Arnold

Peripheral Mechanisms of Opioid Analgesia

Chair: Kelly A. Berg

Pharmacological Enhancement of Wakefulness

Chair: Jeff Witkin

Purinergic Transmission in Visceral Function and Sensation

Chair: James J. Galligan

Role of the Coagulation Cascade in Tissue Injury and Disease

Chair: James Luyendyk

Meeting Highlights

Division Mixers • Student-Postdoc Mixer WIP into Shape Networking Walk Opening & Closing Receptions

Signals Activating Pancreatic Stem Cells and Beta Cell Regeneration

Chair: Thomas M. Wilkie

Sleep Apnea: A Sleeping Giant in Disease Pathologies

Chairs: Issy Laher and Najib Ayas

Stem Cells-Pharmacology and Therapeutics

Chairs: Daniel Reed and Jane A. Mitchell

Systems Biology Answering Pharmacological Questions

Chairs: Rick Neubig and John Lazo

The 5-HT2C Receptor: A New Target for Multiple Therapeutics

Chair: Lora Heisler

The Pharmacology of Natural Products

Chairs: Craig Hopp and John Glowa

Therapeutic Approaches for Erectile Dysfunction and Benign

Prostatic Hyperplasia: Present & Future

Chair: Selim Cellek

Transcription Factors as Therapeutic Drug Targets

Chairs: Theresa M. Filtz and Mark Leid

Translating Pharmacology into Career Choices in the

Pharmaceutical and Biotechnology Industry

Chair: Janet Clark

Voltage-gated Ion Channels as Targets for Analgesic Agents: Recent Progress on the Discovery of Novel Channel Modulators

Chair: Michael F. Jarvis

DIVISION SESSIONS

Behavioral Pharmacology Division Symposium: The Opioid-Cannabinoid Connection: A Translational Behavioral Perspective

Chair: Margaret Haney and Ziva Cooper

Cardiovascular Pharmacology Division Trainee Showcase

Drug Discovery and Development Division Symposium: TBA

Chair: TBA at www.aspet.org

Drug Metabolism Division James Gillette Best Paper Award and

Platform Session

Integrative Systems, Translational and Clinical Pharmacology

Young Investigator Awards Platform Session

Molecular Pharmacology Division Postdoctoral Award Finalists

Neuropharmacology Division Postdoctoral Scientist Award

Finalists

Pharmacology Education Division Symposium: The Future of PhD Education in Biomedicine: U.S. and European Perspectives

Chair: Joey V. Barnett and Nick J. Goulding

Toxicology Division Symposium: The Mitochondrion as a Toxicological Pharmacological Target

Chair: TBA at www.aspet.org

LECTURES

JOHN J. ABEL AWARD LECTURE

Speaker: TBA at www.aspet.org

JULIUS AXELROD AWARD LECTURE: No Pain, Big Gain:

Truncated Muopioid Receptor Slice Variants as Drug Targets

Speaker: Gavril W. Pasternak

SIR JAMES BLACK LECTURE

Speaker: Robert J. Lefkowitz

BENEDICT R. LUCCHESI DISTINGUISHED AWARD LECTURE IN

CARDIAC PHARMACOLOGY

Speaker: TBA at www.aspet.org

NORMAN WEINER LECTURE

Speaker: David E. Clapham

DRUG METABOLISM EARLY CAREER ACHIEVEMENT

AWARD LECTURE

Speaker: TBA at www.aspet.org

CANADIAN SOCIETY FOR PHARMACOLOGY AND

THERAPEUTICS AWARDS LECTURES

SPECIAL SESSIONS

Julius Axelrod Symposium: Expanding the Repertoire of

G-Protein Coupled piold Receptor Targets

Chair: Gavril W. Pasternak

2013 Teaching Institute: TBA

Chair: TBA at www.aspet.org

Graduate Student-Postdoc Colloquium: Careers Roundtable

Chair: TBA at www.aspet.org

Student-Postdoc Best Abstract Competition

Sunday April 21, 2013
Cash awards to students and postdocs making the best poster presentations

- 1. Submit an abstract as first author by November 8, 2012 to EB2013
- Go online to www.aspet.org/awards and select Graduate Student Best Abstract Award, Postdoctoral Scientist Award, or Drug Discovery and Development Young Investigator Award, as appropriate.
- 3. Apply online by November 14, 2012 to the Division in which the presented research falls.
- 4. Finalists will be asked to present their poster at the Graduate Student-Postdoc Best Abstract Competition from 6:30 PM 8:30 PM on Sunday, April 21.
- 5. Posters will be judged by judges from the Divisions.

EB-SPONSORED SESSIONS

Recognizing that techniques and issues related to teaching and the use of computers in research and teaching cross all biomedical disciplines, EB 2013 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 & 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 <u>do not</u> 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.



ABSTRACT INFORMATION & USING THE TOPIC CATEGORIES

Abstract Deadline:

Thursday, November 8, 2012 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 37-55 or at www.experimentalbiology.org before submitting your abstract. Please follow the guidelines below.

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.

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 Website: www.anatomy.org

American Society for Biochemistry and Molecular Biology

(ASBMB)

Phone: 240-283-6600 Email: meetings@asbmb.org

Website: www.asbmb.org/meeting2013

American Society for Nutrition (ASN)

Phone: 301-634-7043; Fax: 301-634-7894

Email: meetings@nutrition.org

Website: www.nutrition.org/meetings/annual

Twitter: @nutritionorg

American Society for Investigative Pathology (ASIP)

Phone: 301-634-7950; Fax: 301-634-7990

Email: meetings@asip.org Website: www.asip.org

American Society for Pharmacology and Experimental

Therapeutics (ASPET)

Phone: 301-634-7066; Fax: 301-634-7061

Email: araptakis@aspet.org Website: www.aspet.org

The American Physiological Society (APS)

Phone: 301-634-7967; Fax: 301-634-7264

Email: meetings@the-aps.org Website: www.the-aps.org

ABSTRACT INFORMATION & USING THE TOPIC CATEGORIES

NOTIFICATION OF PROGRAMMING

The first author <u>and</u> 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 <u>not</u> be available prior to that time! It will be emailed prior to the February 22, 2013 early registration deadline. Co-authors will not receive notification.

Poster Policy

Presenters must mount their posters no later than 8:30 AM on their day of presentation.

The Exhibit Hall opens at 7:00 AM 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 8:30 AM - 5:00 PM (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

Following the EB 2013 meeting, 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 conclusion of the meeting.

Instructions for uploading your poster will be sent with your confirmation in February.

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





TOPIC CATEGORIES - ANATOMY

	list of topics below and decide where your work fits select either a broad category or a more specific	7029-AAA	Cardiovascular Biology: Biomechanics; Bioengineering
-	y. AAA platform and hybrid talks will be selected from	7030-AAA	Cardiovascular Biology: Dysfunction; Disease;
•	ed abstracts. You may also submit more than one	, , , , , , , , , , , , , , , , , , , ,	Genetic Disorders
	o to www.experimentalbiology.org to submit your	7031-AAA	Cardiovascular Biology: Heart Development &
	gister for the meeting, and book your hotel.		Growth
	g ,	7032-AAA	Cardiovascular Biology: Imaging
Poster	Topics	7033-AAA	Cardiovascular Biology: Sex & Gender Related
7000-AAA	Anatomy		Differences
7001-AAA	Anatomy: Animal Models	7034-AAA	Cardiovascular Biology: Stem Cells, Cell & Molecular
7002-AAA	Anatomy: Bones Cartilage & Teeth		Biology
7003-AAA	Anatomy: Cardiovascular		.,
7004-AAA	Anatomy: Form & Variation	7035-AAA	Cell Biology
7005-AAA	Anatomy: Functional Anatomy & Biomechanics	7036-AAA	Cell Biology: Membranes & Cytoskeleton
7006-AAA	Anatomy: Gastrointestinal	7037-AAA	Cell Biology: Signaling & Molecular Biology
7007-AAA	Anatomy: Muscle	7038-AAA	Cell Biology: Organelles
7008-AAA	Anatomy: Neural		
7009-AAA	Anatomy: Tendons & Ligaments	7039-AAA	Development & Growth
7010-AAA	Anatomy: Urogenital	7040-AAA	Development & Growth: Birth Defects
		7041-AAA	Development & Growth: Craniofacial
7011-AAA	Anatomy Education	7042-AAA	Development & Growth: Limbs
7012-AAA	Anatomy Education: Assessment, Curriculum &	7043-AAA	Development & Growth: Neural Crest & Placodes
	Mentoring	7044-AAA	Development & Growth: Patterning
7013-AAA	Anatomy Education: Clinical Based Approaches	7045-AAA	Development & Growth: Reproduction
7014-AAA	Anatomy Education: Computer-Assisted Learning	7046-AAA	Development & Growth: Gene & Protein Expression
7015-AAA	Anatomy Education: Teaching Methods &		
	Innovations	7047-AAA	Extracellular Matrix
7016-AAA	Anatomy Education: Undergraduate		
		7048-AAA	Imaging
7017-AAA	Biological Anthropology	7049-AAA	Imaging: Anatomy
		7050-AAA	Imaging: Functional Imaging
7018-AAA	Bones, Cartilage & Teeth	7051-AAA	Imaging: Technology & Methods
7019-AAA	Bones, Cartilage & Teeth: Anatomy & Morphology	7052-AAA	Imaging: Computational Biology
7020-AAA	Bones, Cartilage & Teeth: Craniofacial		
7021-AAA	Bones, Cartilage & Teeth: Development	7053-AAA	Muscle
7022-AAA	Bones, Cartilage & Teeth: Evolution & Anthropology	7054-AAA	Muscle: Biomechanics & Exercise
7023-AAA	Bones, Cartilage & Teeth: Exercise, Biomechanics;	7055-AAA	Muscle: Development
7004444	Bioengineering	7056-AAA	Muscle: Stem Cells & Regeneration
7024-AAA	Bones, Cartilage & Teeth: Molecular Mechanisms		
7005 444	Conditions on the Biology	7057-AAA	Neurobiology
7025-AAA	Cardiovascular Biology	7058-AAA	Neurobiology: Behavior; Neuropsychiatric Disorders;
7026-AAA	Cardiovascular Biology: Aging	7050 444	Disease; Aging
7027-AAA	Cardiovascular Biology: Anatomy & Morphology	7059-AAA	Neurobiology: Brain
7028-AAA	Cardiovascular Biology: Angiogenesis;	7060-AAA 7061-AAA	Neurobiology: Development
	Lymphangiogenesis; Vasculogenesis	AAA-1001	Neurobiology: Neural Cell Biology

7062-AAA 7063-AAA 7064-AAA 7065-AAA	Neurobiology: Neuronal & Spinal Cord Degeneration, Repair & Regeneration Neurobiology: Neuroprotection & Neuroimmunology Regenerative Medicine Regenerative Medicine: Organ & Tissue Regeneration	A hybrid syn oral present includes six Abstracts no	Platform Topics Inposium includes one invited talk and four 15-minute ations selected from abstracts; a platform session 15-minute oral presentations selected from abstracts. It programmed in a hybrid symposium or platform the scheduled in an appropriate poster session.
7066-AAA 7067-AAA	Regenerative Medicine: Stem Cells Regenerative Medicine: Tissue Engineering	7074-AAA 7075-AAA	Form, Function, & Evolution Development and Disease — It's All about Anatomy
7068-AAA 7069-AAA 7070-AAA 7071-AAA	Stem Cells Stem Cells: Aging & Disease Stem Cells: Muscle Stem Cells: Wound Healing & Tissue Repair	7076-AAA 7077-AAA 7078-AAA 7079-AAA	Neurobiology of Aging Cell Biological Basis of Complex Morphogenesis Responses to Novel Environmental Stimuli: Induction and Epigenetic Inheritance Anatomy Education- Educational Community Outreach
7072-AAA	Bioengineering	7080-AAA	Teaching Innovations in Anatomy

EB Teaching Poster Session

7073-AAA Wound Healing

If you would like to submit an abstract to one of EB's Teaching poster sessions (#8100-8200 below), then you will have the opportunity to present your poster twice – once with the EB Teaching posters and a second time with the AAA Education posters. See page 35 for information about the EB Teaching posters.

8100-EB Computers in Research & Teaching

8200-EB Teaching, Learning & Testing in the Biological and Biomedical Sciences





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	Developmental origins of cardiovascular disease (Scherrer/May)
1002-APS	Inflammation as an orchestrator in heart failure (Altara/Blankesteijn)
1003-APS	Matrix metalloproteinases in the cardiovascular system (Schulz/Mishra)
1004-APS	Novel signaling molecules in vascular injury and inflammation (Hamblin/Rocic)
1005-APS	Nutrients and cardiovascular health and disease: glucose, fatty acids and beyond (Chatham/Marsh)
1006-APS	Signaling mechanisms in cardiac, lymphatic and smooth muscle contraction (Chakraborty/Scallan)
1007-APS	The aging myocardium: structural remodeling in health and disease (Horn/Pierce)
1008-APS	Vascular cognitive impairment: emerging concepts and pathophysiology (Csiszar/Warrington)
1009-APS	Wiggers Award featured topic: novel pathways regulating microvascular tone and function (Gutterman)

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	Extracellular matrix and cardiac remodeling
1019-APS	Free radical signaling, oxidant stress, and injury
1020-APS	Gene expression and cardiovascular function
1021-APS	Genetic models of cardiovascular function
1022-APS	Hypertension
1023-APS	Microcirculation
1024-APS	Myocardial ischemia/myocardial metabolism
1025-APS	Nitric oxide/carbon monoxide/vasoactive molecules
1026-APS	Peripheral Circulation
1027-APS	Shock

1028-APS	Vascular pathobiology
1029-APS	Vascular smooth muscle

The Microcirculatory Society POSTERS:

1035-APS	Angiogenesis/microvascular remodeling/injury & repair
1036-APS	Atherosclerosis/thrombosis/platelets
1037-APS	Inflammation/leukocyte-endothelium interactions
1038-APS	Instrumentation, methodology, and experimental models
1039-APS	Ischemia-reperfusion/free radical biology
1040-APS	Lymphatic and venular function
1041-APS	Microvascular cell signaling pathways
1042-APS	Microvascular development and aging
1043-APS	Microvascular flow regulation/oxygen delivery/ networks
1044-APS	Microvascular mechanics/hemodynamics/rheology
1045-APS	Microvascular pathophysiology-pharmacology, therapeutics and translational aspects
1046-APS	Pericytes and Stem Cells
1047-APS	Permeability/fluid & solute exchange/glycocalyx
1048-APS	Tissue-microvessel interactions/extracellular matrix
1049-APS	Vasomotor control: endothelium/smooth muscle/ nerves

Biomedical Engineering Society

POSTERS:	
1055-APS	Biomaterials
1056-APS	cell adhesion and migration in cancer
1057-APS	Cell mechanics
1058-APS	Mathematical models of organ systems, tissues or
	cells
1059-APS	Mechanobiology
1060-APS	New approaches to biomedical data analysis
1061-APS	New approaches to biomedical experimentation
1062-APS	Regenerative medicine
1063-APS	Tissue engineering

	Cell & M	olecular Physiology Section	POSTERS:	
FEATURED TOPICS:			1101-APS	Comparative cardiovascular and respiratory
		elected for inclusion in a featured topic, abstracts will	1102-APS	physiology Comparative metabolic physiology, biochemistry and
	ne presente 1064-APS	ed twice: once as a poster and once in the oral session) lon channles in health and disease (Hamilton)	1102-AI 3	endocrinology
	1064-APS	lon transport in cell differentiation, migration,	1103-APS	Comparative muscle physiology, locomotion and
	10007110	polarization and adhesion (Worrell)		behavior
	1066-APS	Oxidative stress (Helms)	1104-APS	Comparative osmotic, ionic, and acid-base regulation
			1105-APS	Other comparative and evolutionary physiology
	POSTERS:		1106-APS	Scholander Award Competition
	1067-APS	Apoptosis and cell death	Endocrir	nology & Metabolism Section
	1068-APS 1069-APS	ATPase-driven ion pumps Cell volume, osmoregulation and water transport	FEATURED	
	1070-APS	Cellular signalling: second messengers, extracellular	(NOTE: if se	elected for inclusion in a featured topic, abstracts will
	, .,	matrix, cell-cell Interaction, kinases		ed twice: once as a poster and once in the oral session)
	1071-APS	Intracellular pH and acid-base transport	1115-APS	Crosstalk between 1-carbon metabolism and
	1072-APS	Membrane domains, macromolecular complexes,	444C A DC	pathways associated with metabolic diseases (Wang)
	1070 100	trafficking and cell polarity	1116-APS	Novel interventions for treating obesity and type 2 diabetes (Reynolds/Brozinick)
	1073-APS 1074-APS	Oxidative stress biology		diabetes (Reyfloids/BioZiffick)
	1074-AF3	Stem cells and cell growth, development and differentiation	POSTERS:	
	1075-APS	Transporters: transmitters, nutrients, metabolites and	1117-APS	Cardiovascular endocrinology, including renin-
		drugs		angiotensin-aldosterone
			1118-APS	Exercise, nutrition and muscle protein synthesis
		Nervous System Section	1119-APS	Gestation, fetal, and neonatal biology, including mammary gland and lactation
	FEATURED		1120-APS	Growth, connective tissue and bone metabolism
		elected for inclusion in a featured topic, abstracts will twice: once as a poster and once in the oral session)	1121-APS	Lipid, lipoprotein and cholesterol metabolism
	1080-APS	Brainstem autonomic pathway in health and disease	1122-APS	Mitochondrial function
		(Babic)	1123-APS	Neuroendocrinology, hypothalamus and pituitary
	1081-APS	Sympathetic activity in blood pressure regulation:	1124-APS	Obesity and satiety
		sodium and hormonal mechanisms (Fink)	1125-APS 1126-APS	Pancreatic hormones and diabetes
	DOCTEDS:		1126-APS	Protein, amino acid and carbohydrate metabolism Reproduction and sex hormones
	POSTERS: 1082-APS	Cognition and behavior	1128-APS	Stress and trauma including adrenal gland
	1083-APS	Blood-brain barrier, brain blood flow and metabolism		
	1084-APS	Brain development and aging		mental & Exercise
	1085-APS	Neuroinflammation/neuroprotection/ischemia		ogy Section
	1086-APS	Neuroendocrinology/neuroimmunology	FEATURED	
	1087-APS	Neuronal excitability	•	elected for inclusion in a featured topic, abstracts will ed twice: once as a poster and once in the oral session)
	1088-APS 1089-APS	Neuroplasticity Neurotransmission and signaling molecules	1135-APS	Current concepts in brown adipose tissue and human
	1090-APS	Central nervous system: other		energy balance (Castellani)
	1091-APS	Central regulation of food intake and body weight	1136-APS	Epigenetics and exercise (Hargreaves)
	1092-APS	Central regulation of body fluid homeostasis	1137-APS	Microvascular responses and thermoregulatory
	1093-APS	Neuroglial interactions		control in normal and clinical populations (Kenney)
	Compar	ative & Evolutionary	POSTERS:	
		egy Section	1138-APS	Acute exercise responses
	FEATURED		1139-APS	Altitude and hypoxia
		elected for inclusion in a featured topic, abstracts will	1140-APS	Cardiac responses to exercise
		ed twice: once as a poster and once in the oral session)	1141-APS	Circadian and biological timekeeping
	1100-APS	Integrative cardiovascular and respiratory physiology	1142-APS	Exercise training responses
		of non-model organisms (Eme)	1143-APS 1144-APS	Exercise, health and disease Fluid balance, blood volume regulation and trauma
			1145-APS	Metabolism and energetics of muscle and related
				tissues
			11/16 ADS	Muscle atrephy and hyportrophy

1146-APS Muscle atrophy and hypertrophy

44.47.450		4400 400	Mr. I. Sil Oliv
1147-APS	Muscle plasticity and gene regulation/expression	1189-APS	Microbiome of the GI tract
1148-APS	Neural control of the circulation during exercise	1190-APS	Nuclear receptors in the liver and GI tract
1149-APS	Neural-endocrine control during exercise	1191-APS	Organoids and novel models of GI and liver function
1150-APS	Reduced gravity and hyperbaric environments	1192-APS	Pancreatic physiology and pathophysiology
1151-APS	Respiratory responses to exercise	History	of Physiology Group
1152-APS	Responses of bone and connective tissue to exercise		of Physiology Group
1153-APS	and inactivity	POSTERS: 1200-APS	History of Physiology
1155-AP5	Signaling with muscle among cells, tissues and	1200-AP3	History of Physiology
1154-APS	organs Temperature regulation	Нурохіа	Group
1155-APS	Vascular responses to exercise and environmental	FEATURED	
1133-A1 3	stress		elected for inclusion in a featured topic, abstracts will
	30 €33	•	ed twice: once as a poster and once in the oral session)
E pithelia	al Transport Group	1201-APS	Central Nervous System Modulation of
FEATURED		1201 Al 3	Cardiorespiratory Responses to Hypoxia (Solomon)
	elected for inclusion in a featured topic, abstracts will		Caralorespiratory Responses to Trypoxia (Solomon)
	ed twice: once as a poster and once in the oral session)	POSTERS:	
1160-APS	Hans Ussing Award featured topic	1202-APS	Carotid body structure and function
1161-APS	Steve Hebert Award featured topic	1203-APS	Hypoxia-induced gene expression
	'	1204-APS	Hypoxia/transmitters, second messengers, and signal
POSTERS:			transduction
1162-APS	Epithelial development, polarity, differentiation	1205-APS	Hypoxia and ion channels
1163-APS	Transporters and modulatory proteins, lipids and	1206-APS	Intermittent hypoxia/oxidative stress
	hormones	1207-APS	Responses to acute or chronic hypoxia exposure and
1164-APS	Water and ion channels and modulatory proteins,		altitude
	lipids, and hormones		
1165-APS Transcellular and paracellular permeability			Biology Group
FEATUREI			
Gastrointestinal & Liver Physiology Section		(NOTE: if selected for inclusion in a featured topic, abstracts will	
FEATURED			ed twice: once as a poster and once in the oral session)
	elected for inclusion in a featured topic, abstracts will	1215-APS	microRNA and stem cell in muscle pathophysiology
	ed twice: once as a poster and once in the oral session)		(Mishra)
1170-APS	Neurotransmission and Ca ²⁺ sensitization in	1216-APS	The role of Akt/mTor pathway in muscle growth and
4474 A DC	gastrointestinal smooth muscles (Perrino)		rejuvenation (Steenbergen)
1171-APS	Tight junctions in epithelial homeostasis: beyond	DOSTEDS	
	paracellular barrier (Shen)	POSTERS:	A sile se a se el secono el e fore elle se
DOSTEDS:		1217-APS	Aging and muscle function
POSTERS:	Alachelia and panalachelia fatty liver diseases	1218-APS	Calcium and muscle contractility
1172-APS 1173-APS	Alcoholic and nonalcoholic fatty liver diseases Barrier function and repair	1219-APS 1220-APS	Calcium homeostasis Cardiac muscle, physiology
1174-APS	Gastric physiology and pathophysiology	1220-APS	Contractile and regulatory proteins
1175-APS	Gastric physiology and patriophysiology Gastrointestinal cancer and metastasis	1221-AF3	Excitation-contraction coupling mechanisms
1176-APS	Gastrointestinal development	1222-AFS	Heat shock proteins and muscle function
1177-APS	Gastrointestinal motility	1224-APS	Muscle chemistry and metabolism
1178-APS	Gastrointestinal nutrient sensors	1225-APS	Skeletal muscle, physiology
1170 ADC	Clared by a state of the	1220 ATO	Creath reveals why side of the research of

Neural Control & Autonomic Regulation Section FEATURED TOPICS:

1226-APS Smooth muscle, physiology/pharmacology

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

1235-APS Assessing postganglionic sympathetic neuronal discharge patterns: implications for understanding aberrant sympathetic outflow (Shoemaker/Knuepfer)

1236-APS Brain renin-angiotensin signaling in metabolic diseases (Rahmouni)

1237-APS NCAR Trainee Featured Topic (Lazartigues)

1179-APS

1180-APS

1181-APS

1182-APS

1183-APS

1184-APS

1185-APS

1186-APS

1187-APS

1188-APS

GI and liver stem cells

electrolyte transport

Metal ion transport

apoptosis

epithelia

GI hormones, peptides and receptors

Immunology and microbiology of the gut

Liver physiology and pathophysiology

Intestinal inflammation and pathophysiology

Mechanisms of intestinal nutrient, water and

Membrane trafficking and secretion in digestive

Hepcidin and iron homeostasis

Growth factors, proliferation, differentiation and

1238-APS	The role of ER stress in cadiovascular disease	1275-APS	Sex differences in renal function and disease		
	(Davisson/Cai)	Posnirat	tion Section		
POSTERS:		FEATURED			
1239-APS	Central autonomic regulation		elected for inclusion in a featured topic, abstracts will		
1240-APS	Neural control of cardiorespiratory function: the brain	•	be presented twice: once as a poster and once in the oral session)		
1240-AI 3	Neural control of cardiorespiratory function: the brain	1280-APS	Cell stress in lung disease (Koval/Mulugeta)		
1242-APS	Neural control of cardiorespiratory function: the	1281-APS	Hypoxic chemotransduction: defining the oxygen-		
12 12 71 3	kidney	1201 At 5	sensors (Wyatt)		
1243-APS	Neural control of cardiorespiratory function:	1282-APS	Inflammation and cardiorespiratory control (Powell)		
	vasculature	1283-APS	Origins of cells that contribute to pulmonary		
1244-APS	Neural control of cardiovascular function		epithelials and vascular remodeling (Majka/Alvarez)		
1245-APS	Neural control of visceral and metabolic function		,		
1246-APS	Neural mechanisms in cardiovascular disease	POSTERS:			
		1284-APS	Control of breathing: connectivity, neuromodulation		
Physiolo	ogical Genomics Group		and neurotransmission		
FEATURED	TOPICS:	1285-APS	Control of breathing: chemoreception		
(NOTE: if se	elected for inclusion in a featured topic, abstracts will	1286-APS	Control of breathing: development		
be presented twice: once as a poster and once in the oral session)		1287-APS	Control of breathing: integrated responses		
1250-APS Physiology, genetics and pharmacogenomics of		1288-APS	Control of breathing: respiratory motoneurons and		
	hypertension, renal diseases, inflammation, diabetes		muscles		
	and obesity (Joe/Cowley)	1289-APS	Control of breathing: rhythm generation		
		1290-APS	Lung physiology: airway epithelial cell biology		
POSTERS:		1291-APS	Lung physiology: airway responsiveness and smooth		
1251-APS	Epigenetics, systems biology, computational		muscle cell biology		
	modeling and bioinformatics	1292-APS	Lung physiology: alveolar epithelial cell biology		
1252-APS	Genetically-engineered mutants, transgenic models	1293-APS	Lung physiology: biomechanics, surfactant and gas		
1253-APS	Genomics, genetics, and gene expression		exchange		
1254-APS	Ion tranport- genes and function	1294-APS	Lung physiology: development and plasticity		
1255-APS	MicroRNA, siRNA, non-coding regulatory RNA	1295-APS	Lung physiology: endothelial cell biology		
1256-APS	Physiological genomics of exercise, diabetes and	1296-APS	Lung physiology: fluid balance		
	obesity	1297-APS	Lung physiology: pulmonary hypertension		
1257-APS	Physiological genomics of kidney disease	1298-APS	Lung physiology: vascular smooth muscle cell		
1258-APS	Renin-angiotensin system		biology, vascular regulation, and hypoxia		

Renal Section FEATURED TOPICS:

1259-APS

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

1260-APS Vascular disease: genes and function

Transcriptomics, proteomics and metabolomics

1265-APS Regulation of ion transport in the aldosteronesensitive distal nephron (Staruschenko/Kohan) 1318-APS Translational research in kidney disease, hypertension and electrolyte disorders (Welling)

POSTERS:

1266-APS	Diabetic renal disease
1267-APS	Hormone and autocoid effects on the kidney
1268-APS	Oxidative stress and the kidney
1269-APS	Renal epithelial acid-base mechanisms
1270-APS	Renal hemodynamics and glomerular filtration rate
1271-APS	Renal ion transport, trafficking, and regulation
1272-APS	Renal organic solute transport
1273-APS	Renal pathology, toxicology, and cystic diseases
1274-APS	Renal water transport, urea transport, and
	countercurrent mechanisms



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) 1305-APS Laboratory exercises, case studies and models for

teaching physiological concepts (Lorr)

POSTERS:

8100-EB Computers in Research & Teaching

8200-EB Teaching, Learning & Testing in the Biological and

Biomedical Sciences

Translational Physiology Group

(NOTE: if selected for inclusion in a featured topic, abstracts will be presented twice: once as a poster and once in the oral session) 1310-APS Translational 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)

1315-APS Hypertension: mechanisms and consequences

(Kapusta)

1316-APS Novel roles of hormones in blood pressure regulation

(Sullivan/Sasser)

1317-APS Obesity and inflammation: contributions to vascular

and renal disease (De Miguel)

1318-APS Translational research in kidney disease,

hypertension and electrolyte disorders (Welling)

POSTERS:

1319-APS Blood pressure and fluid volume regulation in

pregnancy and developmental programming
Developmental programming and cardio-renal

1320-APS Developmental program function in adults

1321-APS Cardiovascular and renal mechanisms in diabetes

and metabolic syndrome

1322-APS Neurohumoral mechanisms of blood pressure and

volume regulation

1323-APS Renin-angiotensin-aldosterone system in regulation

of blood pressure and renal function

1324-APS Sex differences in blood pressure and fluid volume

homeostasis

1325-APS Water and electrolyte homeostasis: pathophysiology

and physiology







TOPIC CATEGORIES – BIOCHEMISTRY AND MOLECULAR BIOLOGY

ASBMB topic categories are grouped by the program's scientific themes

Short talks will be selected from the volunteered abstracts.

ASBMB travel award applicants must submit an abstract as first author to an ASBMB topic category (#2000-2408) by the November 8 abstract deadline. Complete submission rules and deadlines available at www.asbmb.org/meeting2013.

ASBMB scientific abstracts will be judged for Thematic Best Poster honors with cash prizes.

2000-ASBMB Genome Replication and Repair

2001-ASBMB	Coordinating Functions at the Replication Fork
2002-ASBMB	Mechanism and Control of Replication Initiation
2003-ASBMB	Activation of DNA Damage Signaling
2004-ASBMB	Mechanisms of Genomic Stability
2005-ASBMB	Chromatin Modifications and Remodeling in DNA
	Replication, Recombination, and Repair
2006-ASBMB	Chromosome Rearrangements

2007-ASBMB	DNA Enzymes
2008-ASBMB	DNA Repair Mechanisms
2009-ASBMB	DNA Replication Mechanisms
2010-ASBMB	DNA Replication Origins

2011-ASBMB	Double-Stranded Breaks and DNA Recombination
2012-ASBMB	Genome Diversity and DNA Recombination
2013-ASBMB	Genome Stability and DNA Repair

2014-ASBMB	Inhibitors of DNA Transactions
2015-ASBMB	Mechanism of DNA Recombination
2016-ASBMB	Meiotic Chromosome Dynamics
2017-ASBMB	Mutagenesis

2018-ASBMB	Nucleic Acid- Small Molecule Interactions
2019-ASBMB	Nucleosome and Chromatin Assembly

2020-ASBMB	Replicases and Replisomes
2021-ASBMB	Replication Fork Dynamics
2022-ASBMB	Replication Initiation

2023-ASBMB	Signaling Responses to DNA Damag	e

2024-ASBMB	Site-specific Recombination
2025-ASBMB	Somatic Hypermutation
2026-ASBMB	Telomeres and Telomerase

2027-ASBMB Translesion and Error-Prone DNA Polymerases

2028-ASBMB Transposition

2029-ASBMB V(D)J Recombination & Class Switch

Recombination

2030-ASBMB DNA

2031-ASBMB DNA Structure

2032-ASBMB Probes of DNA Conformation

2040-ASBMB Cell Cycle

2041-ASBMB Cell Cycle and Growth Control 2042-ASBMB Checkpoint Mechanisms

2043-ASBMB Cyclins and Cyclin-Dependent Kinases

2050-ASBMB Chromosomes

2051-ASBMB Centromeres and Kinetochores

2052-ASBMB Chromosome Segregation and Aneuploidy 2053-ASBMB Cohesion /Chromosome Condensation

2054-ASBMB Mitotic Spindle2055-ASBMB Spindle Checkpoint

2060-ASBMB Mechanisms of Gene Transcription and

Regulation

2061-ASBMB Chromatin Remodeling During Transcription

2062-ASBMB Transcription Mechanisms

2063-ASBMB Co-transcriptional Coupling Mechanisms

2064-ASBMB Repressive Chromatin

2065-ASBMB Chromatin Changes in Development
2066-ASBMB Chromatin Recognition and Assembly
2067-ASBMB Chromatin Remodeling During Transcription
2068-ASBMB Chromatin Structure in Gene Activation

2069-ASBMB Co-transcriptional Processes 2070-ASBMB Dynamics of Transcription

2071-ASBMB Epigenetics: histone and DNA modifications

2072-ASBMB Heterochromatin 2073-ASBMB Histone Modifications

2074-ASBMB Non-coding RNAs in Gene Regulation and

Chromosome Structure

2075-ASBMB Transcriptional Assemblies and Mechanisms

2076-ASBMB Transcriptional Initiation 2077-ASBMB Transcriptional Regulation

2080-ASBMB RNA Function and Protein Synthesis

2081-ASBMB How RNA Molecules Behave and Misbehave

2082-ASBMB Making and Using RNA in the Nucleus 2083-ASBMB RNA in the Cytoplasm: Translation and

Degradation

2084-ASBMB Frontiers in RNA Biology 2085-ASBMB Alternative RNA Splicing

2086-ASBMB Catalytic RNA

2087-ASBMB	Molecular Recognition of RNA	2150-ASBMB	Metabolism
2088-ASBMB	Non-coding RNAs	2151-ASBMB	Genetic and Metabolic Approaches to Obesity
2089-ASBMB	Ribonucleoproteins	2152-ASBMB	Metabolism and Cancer
2090-ASBMB	Riboregulation	2153-ASBMB	Metabolism and Nutrition
2091-ASBMB	Ribosome and Translation	2154-ASBMB	Metabolism and Neurodegeneration
2092-ASBMB	Riboswitches	2155-ASBMB	Aging and Metabolism
2093-ASBMB	RNA Editing and Modification	2156-ASBMB	Metabolism and Diabetes
			Metabolis Networks
2094-ASBMB	RNA Folding	2157-ASBMB	
2095-ASBMB	RNA Modification: Mechanism and Function	2158-ASBMB	Metabolic Regulation
2096-ASBMB	RNA Processing	2159-ASBMB	Mitochondria in Health and Disease
2097-ASBMB	RNA Structure and Dynamics	2160-ASBMB	Nuclear Receptors in Metabolic Syndromes
2098-ASBMB	RNA Structure, Function, and Regulation		
2099-ASBMB	RNA Transport and Localization	2170-ASBMB	Obesity
2100-ASBMB	RNA Turnover	2171-ASBMB	Enzymes, Hormones and Obesity
2101-ASBMB	RNA-Based Gene Regulation	2172-ASBMB	Frontiers in Obesity Research
2102-ASBMB	Small RNAs	2173-ASBMB	Obesity and the Metabolic Syndrome
2103-ASBMB	tRNA Synthetases: Structure, Mechanism and	2174-ASBMB	Treatment, Prevention and Complications of
	Evolution		Obesity
	Evolution		o besity
2110_ASRMR	Protein Modification, Trafficking and	2180_ASRMR	Chemical and Systems Biology
ZIIO-ASDIVID	Degradation		Function and Evolution of Metabolic Networks
0444 A CDI AD		2181-ASBMB	
2111-ASBMB	Ubiquitin and Ubiquitin-Like Modifications	2182-ASBMB	Controlling Cellular Communication
2112-ASBMB	The Multivesicular Body and Endocytosis	2183-ASBMB	Manipulating Metabolic Networks
2113-ASBMB	Mechanisms of Bacterial and Viral Pathogenesis	2184-ASBMB	Assembly and Control of Dynamic Protein
2114-ASBMB	Regulatory Thiol Modifications		Complexes
2115-ASBMB	Autophagy	2185-ASBMB	Biosynthesis of Complex Molecules
2116-ASBMB	Chemical Probes of Protein Modifications	2186-ASBMB	Chemical Biology of Cell Death
2117-ASBMB	Host-pathogen Interactions and Protein	2187-ASBMB	Chemical Perspectives in Neurobiology
	Trafficking		
2118-ASBMB	Molecular Chaperones: Mechanism and Function	2188-ASBMB	Chemical Probes and Their Use in Identifying
2119-ASBMB	Posttranslational Modifications		New Therapeutic Targets
2120-ASBMB	Proteases in Cell Regulation and Disease	2189-ASBMB	Chemistry and Cell Biology of Natural Products
2121-ASBMB	Protein Folding, Misfolding, and Aggregation	2190-ASBMB	Experimental and Computational Approaches to
2122-ASBMB	Protein Lipidation	Z130-A3DIVID	Systems Systems
	·	2101 ACDMD	
2123-ASBMB	Protein Targeting, Endocytosis, and the MVB	2191-ASBMB	Mathematical Biology
2124-ASBMB	Protein Turnover and Quality Control	2192-ASBMB	Membrane Proteins as Drug Targets
2125-ASBMB	Regulation of Cell Function by Redox	2193-ASBMB	Microarrays
	Modifications	2194-ASBMB	Mode of Action of Bioactive Natural Products
2126-ASBMB	Ubiquitin-Proteasome Pathway & Ubiquitin-Like	2195-ASBMB	New Targets for Drug Discovery: Antibacterials
	Proteins	2196-ASBMB	New Targets for Drug Discovery: Nuclear
			Hormone Receptors
2130-ASBMB	Catalytic Mechanisms	2197-ASBMB	Pharmacogenomics
2131-ASBMB	Bioenergy and Enzymatic Catalysis	2198-ASBMB	Photochemical Sensors
2132-ASBMB	Catalytic and Substrate Promiscuity	2199-ASBMB	Polypharmacology and Drug Repurposing
2133-ASBMB	Cool Catalysts and Radically-new Reaction	2200-ASBMB	Protein-Small Molecule Interactions
	Mechanism	2201-ASBMB	Regulatory Networks
2134-ASBMB	Molecular Motors - Force and Work as Products	2202-ASBMB	Small Molecule Control of Protein Folding and
2135-ASBMB	Energetics and Design	ZZOZ / KOBINIB	Assembly
		2202 VCDMD	Subsystems and Simulation
2136-ASBMB	Enzyme Mechanism	2203-ASBMB	•
2137-ASBMB	Enzymes as Drug Targets	2204-ASBMB	Target Identifcation and Pathway Mining
2138-ASBMB	Macromolecular Folding and Fluctuations	2040 42745	B
2139-ASBMB	Molecular Motor Proteins and Pumps	2210-ASBMB	Proteomics and Bioinformatics
2140-ASBMB	Multienzyme Complexes	2211-ASBMB	Computational Approaches in Systems Biology
2141-ASBMB	Protein Interactions in Catalysis	2212-ASBMB	Genomics
2142-ASBMB	Regulation and Allosterism	2213-ASBMB	Protein Profiling in Normal and Disease States
2143-ASBMB	Role of Dynamics in Enzyme Catalysis	2214-ASBMB	Toxicogenomics
2144-ASBMB	Structural Enzymology		
	•		

2220-ASBMB	Computational Tools for Assigning Enzymatic	2288-ASBMB	Regulation of Lipid Metabolism
	Functions	2289-ASBMB	Stress and Lipid Metabolism
2221-ASBMB	Functional Proteomic Studies	2290-ASBMB	Structural Biology and Mechanisms of Membrane
2222-ASBMB	Global Analysis of Protein Function		Lipid Assembly
2223-ASBMB	Proteomics and Bioinformatics	2291-ASBMB	Tissue-Specific Regulation of Lipid Metabolism
2220 ACDMD	Mathanda	2200 ACDMD	Chann Degulation of Signaling Bathways
2230-ASBMB	Methods Piophysical Methods	2300-ASBMB	Glycan Regulation of Signaling Pathways
2231-ASBMB 2232-ASBMB	Biophysical Methods Electrophoresis	2302-ASBMB	O-Mannose Glycans and Muscular Dystrophy Glycosyltransferases that Control Cell Growth
2232-ASBMB 2233-ASBMB	Fluorescence Microscopy Approaches to	2302-A3BIVID	and Differentiation
ZZSS ASBIND	Understand Apoptosis	2303-ASBMB	Roles for Glycans in Notch Signaling
2234-ASBMB	Mass Spectroscopy	2304-ASBMB	Regulation of Gene Expression by O-GlcNAc
2235-ASBMB	Nanotechnology	2305-ASBMB	Functions of O-GlcNAc in Signaling
2236-ASBMB	New Molecular and Cellular Imaging Agents	2306-ASBMB	Gene Regulation by O-GlcNAc
2237-ASBMB	Protein Chemistry	2307-ASBMB	Glycan Binding Proteins
2238-ASBMB	Recombinant DNA Technology	2308-ASBMB	Glycan Structural Determination
2239-ASBMB	Small Molecule Tools for Biology	2309-ASBMB	Glycan Synthesis
		2310-ASBMB	Glycans in Development
2240-ASBMB	Cell and Organelle Dynamics	2311-ASBMB	Glycans in Disease
2241-ASBMB	Cargo Sorting and Vesicle Targeting	2312-ASBMB	Glycans of Cell Walls
2242-ASBMB	Cell Division	2313-ASBMB	Glycobiology of the Extracellular Matrix
2243-ASBMB	Cell Migration	2314-ASBMB	Glycosylation and Trafficking
2244-ASBMB	Diseases of Organelle Misfunction	2315-ASBMB	Glycosylation Engineering
2245-ASBMB	Golgi Structure and Biogenesis	2316-ASBMB	Inherited Disorders of Glycosylation
2246-ASBMB	Intracellular Dynamics	2317-ASBMB	Structures of Glycosylation Enzymes and Glycan
2247-ASBMB	Membrane Transport		Binding Proteins
2248-ASBMB	Mitochondrial Dynamics		
2249-ASBMB	Mitochondrial Genetic Diseases	2320-ASBMB	Structure, Function and Biogenesis of Cell
2250-ASBMB	Mitochondrial Toxicity		Membranes
2251-ASBMB	Nuclear Dynamics	2321-ASBMB	Lipid Domains and Lipid Rafts
2252-ASBMB	Organelle Biogenesis	2322-ASBMB	Membrane Biogenesis
2253-ASBMB	Organelle Evolution	2323-ASBMB	Membrane Protein Synthesis, Insertion and
			Assembly
2260-ASBMB	Bioenergetics	2324-ASBMB	Protein-Lipid Interactions As Determinants of
2261-ASBMB	Cytochrome P450	0005 40545	Function
2262-ASBMB	Flavoproteins	2325-ASBMB	Structural Biology and Mechanisms of Membrane
2263-ASBMB	Oxidative Phosphorylation	222C ACDMD	Lipid Assembly
2270 ACDMD	Lipids and Membranes	2326-ASBMB	Structure and Function of Transport Proteins and Channels
2270-ASBMB	Lipid Signaling in Health and Disease	2327-ASBMB	
	Lipid Membrane Curvature In	2327-A3DIVID	Structure, Function, and Biogenesis of Cell Membranes
ZZ/Z-ASDIVID	Membrane Function	2328-ASBMB	Vesicular Trafficking
2273-ASBMB	Lipid Trafficking and Sorting	2020 A0DIVID	vesicular frametting
2274-ASBMB	Lipids In Nutrient Metabolism and Metabolic	2330-ASBMB	Mechanisms of Signal Transduction
227 171051115	Dysfunction Dysfunction	2331-ASBMB	Mechanisms of Cell Growth and Autophagy
2275-ASBMB	Chemical Probes of Lipid Systems	200171051115	Regulation
2276-ASBMB	Lipid Second Messengers	2332-ASBMB	Protein Phosphorylation Networks
2277-ASBMB	Lipid Signaling	2333-ASBMB	G-proteins in Cellular Regulation
2278-ASBMB	Lipid Storage	2334-ASBMB	Mechanisms of Signaling Specificity in Cell Fate:
2279-ASBMB	Lipid Trafficking		Growth, Proliferation or Death?
2280-ASBMB	Lipidomics	2335-ASBMB	ADAMS and Other Proteases
2281-ASBMB	Lipids and Control of Gene Expression	2336-ASBMB	Aging
2282-ASBMB	Membrane Structure and Cell Function	2337-ASBMB	Apoptosis and Cell Stress
2283-ASBMB	Non-animal Genetic Models of Lipid Metabolism	2338-ASBMB	Biochemical Pharmacology
2284-ASBMB	Nuclear Lipid Signalling	2339-ASBMB	Caspases
2285-ASBMB	Organelle Lipid Biosynthesis	2340-ASBMB	Cell Proliferation
2286-ASBMB	Pharmacological Targets in Lipid Metabolism	2341-ASBMB	Cytokine and Growth Factor Signaling
2287-ASBMB	Protein-Lipid Interactions	2342-ASBMB	Hormone Receptors

2343-ASBMB	Integration and Organization of Signaling	2390-ASBMB	Triple Negative Breast Cancer
	Pathways	2391-ASBMB	Breast Cancers that Elude Successful
2344-ASBMB	Peptide Hormones		Treatments: Triple Negative Breast Cancer
2345-ASBMB	Signaling Crosstalk	2392-ASBMB	Genomics: Successes and Challenges in
2346-ASBMB	Signaling in Bacterial Receptor Systems	2332-A3DIVID	Identifying Novel Targets in Minority Populations
2347-ASBMB	Signaling in Disease and Therapy	2393-ASBMB	
2348-ASBMB	• •		Back to the Basics: the Biology of Breast Cancer
	Signaling to the Cytoskeleton	2394-ASBMB	Identification of Novel Targets in Triple Negative
2349-ASBMB	Signaling to the Nucleus		Breast Cancer
2350-ASBMB	Toxins	2395-ASBMB	The Microenvironment of Triple Negative Breast
2351-ASBMB	Transcriptional Regulation and Epigenetic Control		Cancer
		2396-ASBMB	Tumor Metastasis
2360-ASBMB	Protein Phosphorylation and Dephosphorylation	2397-ASBMB	Use of Genomics to Predict Patient Outcomes in
2361-ASBMB	Adapter Proteins		Triple Negative Breast Cancer
2362-ASBMB	G Proteins and Protein Kinases		
2363-ASBMB	Kinase Cascades	2400-ASBMB	Transitions
2364-ASBMB	Map Kinases	2401-ASBMB	Career Options: Beyond Academia
2365-ASBMB	Phosphatases	2402-ASBMB	Careers in Industry for Minority Scientists
2366-ASBMB	Receptor Tyrosine Kinase Signaling to Nucleus	2403-ASBMB	Complementary Skills: Training in Ethics,
2367-ASBMB	Serine/Threonine Kinase		Communications, Teamwork, etc.
2368-ASBMB	Small GTPases	2404-ASBMB	Education and Professional Development - All
2369-ASBMB	Tyrosine Kinases	2.0.7.022	Other
200071021112	.,	2405-ASBMB	Making a Successful Mid-career Transition
2370-ASBMB	Second Messengers	2406-ASBMB	Novel Experiential Learning Activities
2371-ASBMB	Calcium	2407-ASBMB	STEM Curriculum - Training Students to be
2372-ASBMB	GTPases	2407-A3DIVID	
2372-ASBMB 2373-ASBMB	Cyclases	2408-ASBMB	Flexible and Adaptable Transitions in Training From 2 year to 4 year
2374-ASBMB	Cyclic AMP	2400-ASDIVID	Transitions in Training: From 2-year to 4-year
			College, Preparing for Graduate School, Picking a
2375-ASBMB	Cyclic GMP		Post-doc, Interviewing for a Job
2376-ASBMB	Inositol Phosphates and Phosphoinositides		
2377-ASBMB	Nitric Oxide	2410-ASBMB	ASBMB Public Outreach Posters
2378-ASBMB	Phosphodiesterases	2411-ASBMB	Grass-roots Public Outreach
2379-ASBMB	Other Lipid Second Messengers	2412-ASBMB	Public Outreach and Media
		2413-ASBMB	Public Outreach Communication Skills
2380-ASBMB	Plant Biochemistry	2414-ASBMB	Public Outreach in the Classroom
2381-ASBMB	Integration of Carbon and Nitrogen Metabolism	2415-ASBMB	University-based Public Outreach
2382-ASBMB	Novel Lipid Biosynthesis in Plants		



2384-ASBMB Regulation of Plant Metabolism



TOPIC CATEGORIES – PATHOLOGY

4000-ASIP	PATHOBIOLOGY of AGING	4035-ASIP	ER stress in cell death and survival
4001-ASIP	Cell senescence	4036-ASIP	Role of MMPS, TIMPS, and ECM repair in wound
4002-ASIP	Biolongevity		healing
4003-ASIP	Novel genetic and molecular markers of	4037-ASIP	Cellular responses to shear stress, stretch, and
	biolongevity		mechanical injury
4004-ASIP	Novel targets in mitochondrial diseases	4038-ASIP	Mitochondrial responses to cellular injury
		4039-ASIP	Ischemia/reperfusion injury
4005-ASIP	BIOINFORMATICS AND IMAGING	4040-ASIP	Heat shock proteins in disease
4006-ASIP	Genome bioinformatics	4041-ASIP	Environmental pathology and toxicology
4007-ASIP	Computational biology	4042-ASIP	Exogenous pathogen-associated molecular patterns
4008-ASIP	Bioinformatics for diseases		(PAMPs), Endogenous danger-associated molecular
4009-ASIP	Imaging Informatics		patterns (DAMPS), and their role in local tissue
4010-ASIP	Advanced Cellular Imaging in Pathology		response
4011-ASIP	BIOBANKING/BIOREPOSITORIES	4043-ASIP	MUCOSAL INFLAMMATION, EPITHELIAL-
4012-ASIP	QA and QC in repositories		LEUKOCYTE INTERACTIONS AND EPITHELIAL
4013-ASIP	Biobanking Informatics		PATHOBIOLOGY
4014-ASIP	Legal and ethical challenges in biobanking	4044-ASIP	Mucosal inflammation and inflammatory mediators
4015-ASIP	Patient advocacy in biobanking	4045-ASIP	Mucosal-microbial interactions
4016-ASIP	Biospecimen/Biomarker Science	4046-ASIP	Microbiota and systemic disease
		4047-ASIP	Regulation of the epithelial barrier and intercellular
4017-ASIP	GENETIC DISEASES AND GENE EXPRESSION		junctions
4018-ASIP	Transcription factors in pathobiology	4048-ASIP	Epithelial to mesenchymal transition
4019-ASIP	miRNA expression in health and disease		
4020-ASIP	Gene expression studies	4049-ASIP	INFLAMMATION and IMMUNOPATHOLOGY
4021-ASIP	Protein translation in disease	4050-ASIP	Allergic diseases
4022-ASIP	Organismal phenotypes of gene alterations	4051-ASIP	Autoimmune diseases
		4052-ASIP	Microbial pathogenesis
4023-ASIP	CELL ADHESION and CELL SIGNALING	4053-ASIP	Innate immunity
4024-ASIP	Cell surface receptors and signaling pathways	4054-ASIP	Innate immunity, TLRs, and pathogen recognition
4025-ASIP	Chemokines and cytokines		receptors
		4055-ASIP	TLRs, pathogen recognition receptors
4026-ASIP	EXTRACELLULAR MATRIX IN PATHOBIOLOGY	4056-ASIP	Leukocyte-endothelial cell interactions
4027-ASIP	Extracellular matrix – proteases and remodeling	4057-ASIP	Inflammation and inflammatory mediators
4028-ASIP	Extracellular matrix and cell adhesion	4058-ASIP	Endothelial – microbial interactions
4029-ASIP	Extracellular matrix, integrins and cell signaling	4059-ASIP	Sepsis and endotoxin
	pathways	4060-ASIP	Transplantation
		4061-ASIP	Inflammation, infection and chronic fatigue/pain
4030-ASIP	CELL DEATH, TISSUE INJURY AND REPAIR		syndromes
4031-ASIP	Apoptosis/Necrosis		
4032-ASIP	Autophagy, mechansims and the role in diseases	4062-ASIP	CARDIAC PATHOLOGY
4033-ASIP	Ubiquitin proteasome system and Ubiquitin-like	4063-ASIP	Animal models of heart disease
4004 40:5	proteins (SUMO, Nedd, others) in disease	4064-ASIP	Cardiac hypertrophy/heart failure
4034-ASIP	Oxidant, genotoxic, metabolic and other types of	4065-ASIP	Genetic basis of cardiac disease and development
	stress	4066-ASIP	Cardiac metabolism in health and disease

4067-ASIP	Pathophysiology of cardiac valve diseases		
4068-ASIP	Ischemic heart disease and cardiac ischemia	4094-ASIP	NEUROPATHOLOGY
	reperfusion injury	4095-ASIP	Animal models of neuropathology
4069-ASIP	Adenosine monophosphate-activated protein kinase	4096-ASIP	Alzheimer's disease/Parkinson's disease
	(AMPK) signaling in cardiac disease	4097-ASIP	Demyelinating diseases
4070-ASIP	Mitochondrial function in the heart	4098-ASIP	Developmental and other pediatric neuropathology
4071-ASIP	Stem/progenitor cells in cardiac pathology	4099-ASIP	Disease of peripheral nerve and skeletal muscle
		4100-ASIP	Infectious diseases/Neuroinflammation
4072-ASIP	LIVER PATHOLOGY	4101-ASIP	Neurodegenerative diseases – frontotemporal and
4073-ASIP	Animal models of liver disease		Lewy body disorders
4074-ASIP	Liver injury	4102-ASIP	Neurodegenerative diseases – other
4075-ASIP	Hepatitis, liver fibrosis and cirrhosis	4103-ASIP	Neuronal neurogenesis, regeneration, injury and
4076-ASIP	Liver development		repair; trauma
4077-ASIP	Stem cells and cancer	4104-ASIP	Stroke/vascular diseases
4078-ASIP	Liver growth and regeneration	4105-ASIP	Toxic/metabolic diseases
4079-ASIP	Liver tissue engineering and transplantation	4106-ASIP	Tumors – glial
4080-ASIP	Liver metabolism in health and disease	4107-ASIP	Tumors – nonglial
4081-ASIP	Signaling in liver health and disease	4108-ASIP	Macrophage/microglia
4082-ASIP	LUNG PATHOLOGY	4109-ASIP	MISCELLANEOUS NON-NEOPLASTIC TISSUE and
4083-ASIP	Animal models of lung disease		ORGAN PATHOBIOLOGY
4084-ASIP	Lung – acute lung injury	4110-ASIP	Molecular pathogenesis of genetic disease
4085-ASIP	Lung – cancer	4111-ASIP	Molecular pathogenesis of infectious disease
4086-ASIP	Lung – infections	4112-ASIP	Stem Cells: biology, development and applied
4087-ASIP	Lung – inflammatory, immunologic and fibrosing	4113-ASIP	Molecular and bio-markers in non-neoplastic
	lung diseases (non-infectious)		diseases
4088-ASIP	Lung – normal development and developmental	4114-ASIP	Diabetes
	diseases	4115-ASIP	Endocrine/GU/Gynecologic pathology
4089-ASIP	Lung – obstructive airway diseases	4116-ASIP	Hematopathology
4090-ASIP	Lung – pulmonary vascular biology and disorders	4117-ASIP	Renal pathology
4091-ASIP	Pulmonary stem cells, repair, and regeneration	4118-ASIP	Skeletal and bone pathology
4092-ASIP	Lung – environmental diseases	4119-ASIP	Miscellenous tissue and organ pathology
4093-ASIP	Pleural diseases	4120-ASIP	Veterinary pathology
		4121-ASIP	Toxicologic pathology
		4422 ACID	TRANCIATIONAL DECEARCH



4122-ASIP TRANSLATIONAL RESEARCH

4123-ASIP Gene therapy
4124-ASIP Cell therapy
4125-ASIP New technologies for research and diagnosis
4126-ASIP Proteomics

SNPs and genotyping

4128-ASIP NEOPLASIA

4127-ASIP

4129-ASIP

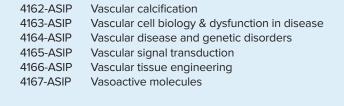
4130-ASIP Epigenetics of cancer 4131-ASIP Genetics of cancer 4132-ASIP Aberrant signaling in cancer 4133-ASIP Developmental pathways in cancer 4134-ASIP Cancer stem cells 4135-ASIP Biomarkers 4136-ASIP Lymphomas/Leukemias 4137-ASIP Breast cancer 4138-ASIP Cancer biology 4139-ASIP Colon cancer 4140-ASIP Prostate cancer 4141-ASIP Animal cancer models

Dietary and environmental factors in cancer

4142-ASIP Molecular targeting for cancer therapeutics

4143-ASIP Tumor angiogenesis

4144-ASIP	Tumor immunology
4145-ASIP	Genomics
4146-ASIP	Epigenomics
4147-ASIP	VASCULAR BIOLOGY AND PATHOLOGY
4148-ASIP	Angiogenesis and vascular development
4149-ASIP	Animal models of vascular diseases
4150-ASIP	Atherosclerosis and restenosis
4151-ASIP	Endothelial function and response to injury
4152-ASIP	Extracellular matrix and proteases in vascular biology
4153-ASIP	Genomics/proteomics in vascular biology and pathology
4154-ASIP	Hemostasis
4155-ASIP	Immune system in vascular disease(s)
4156-ASIP	Lipid mediators and lipoproteins
4157-ASIP	Mechano-sensing and signal transduction in the vessel wall
4158-ASIP	Neurovascular connections/interactions
4159-ASIP	Regulation of endothelial junctions
4160-ASIP	Stem/progenitor cells in vascular biology
4161-ASIP	Thrombosis and platelets









American Society for Nutrition Excellence in Nutrition Research and Practice

TOPIC CATEGORIES – NUTRITION

Aging & Chro	onic Disease	5062-ASN	Effects of Dietary Bioactive Components on
5000-ASN	Community Nutrition Programs and Policies for		Experimental Models of Chronic Disease Risk
	Older Adults	5063-ASN	Antioxidant and Anti-inflammatory Effects of Dietary
5001-ASN	Nutrition Interventions for Risk Factor Modification		Bioactive Components
	in Chronic Disease	5064-ASN	Cardiovascular Effects of Dietary Bioactive
5002-ASN	Nutritional Assessment and Status in Older		Components
00027.0	Populations	5065-ASN	Dietary Bioactive Components of Medicinal,
5003-ASN	Nutrition, Sarcopenia and Physical Performance in	00007.0.1	Functional and Whole Foods (including Probiotics
	Older Adults		and Fermented Foods)
5004-ASN	Nutrition and Cognition Across the Lifespan (co-		and remiented roods,
30017311	sponsored with Nutritional Epidemiology RIS)	Energy and	Macronutrient Metabolism
5005-ASN	Osteoporosis and Bone Metabolism in Aging	5080-ASN	Energy Balance, Macronutrients and
3003 A311	Osteoporosis and Borie Metabolism in Aging	3000 ASI	Weight Management
Community:	and Public Health Nutrition	5081-ASN	Obesity and the Metabolic Syndrome
5020-ASN	Community and Public Health Nutrition	5082-ASN	Protein and Amino Acid Metabolism
3020 A311	Interventions	5083-ASN	Lipid and Fatty Acid Metabolism and Transport
5021-ASN	Diet, Food Security and Health Promotion in	5084-ASN	Dietary Factors Affecting Lipid Metabolism
3021 A311	Diverse Communities	5085-ASN	Polyunsaturated Fatty Acids and Health
5022-ASN	Health Disparities and Social Equity	5086-ASN	Metabolic Phenotyping, Metabolomics and
5023-ASN	Food Environment	3000 A311	Biomarkers
5024-ASN	Food Systems and Food Policy	5087-ASN	Carbohydrate Metabolism
5025-ASN	Community and Public Health Program Design:	5088-ASN	Regulation of Food Intake (co-sponsored with
3023 ASI	Theory to Evaluation	3000 ASI	Obesity RIS)
	Theory to Evaluation	5090-ASN	Protein Intake Throughout the Lifecycle
CARIG		5091-ASN	Protein Sources and Dietary Implications
5030-ASN	Carotenoids and Health	3031 A311	Trotein Sources and Dietary implications
5031-ASN	Carotenoids and Retinoids: Molecular Mechanisms	Experimenta	al Animal Nutrition
000171011	of Action	5100-ASN	Companion Animal Nutrition and Physiology
5032-ASN	Bioavailability and Metabolism of Carotenoids and	5101-ASN	Animal Research Models for Macronutrient
,,,,,	Vitamin A		Metabolism
5033-ASN	Carotenoids: Eye and Brain Health	5102-ASN	Animal Research Models for Nutrient Digestion and
5034-ASN	Biofortification of Staple Crops with Micronutrients		Absorption
		5103-ASN	Animal Research Models for Gut Development and
Diet and Car	ncer		Health
5040-ASN	Diet and Cancer – Molecular Targets	5104-ASN	Animal Research Models Investigating Nutrition and
5041-ASN	Diet and Cancer – Animal Studies		Inflammation
5042-ASN	Diet and Cancer – Translational, Clinical and	5105-ASN	Animal Research Models in Nutrition and
	Survivorship		Musculoskeletal Development
Dietary Bioa	ctive Components	Lactation	
5060-ASN	Bioavailability, Metabolism and Biomarkers of	5120-ASN	Lactation: Biology of Milk Production and Secretion
	Dietary Bioactive Components	5121-ASN	Lactation: Bioactive Compounds and other Milk
5061-ASN	Mechanisms of Action and Molecular Targets of		Constituents
	Dietary Bioactive Components		
	,		

5214-ASN	Development of Evidence-Based Nutrition Education	Obesity 5260-ASN	Obesity – Weight Management
5215-ASN	Behavioral Science and Eating Behavior Change	5261-ASN	Obesity – Body Composition
5216-ASN	Nutrition Education during Prenatal and Perinatal	5262-ASN	Obesity – Satiety (Co-sponsored by EMM RIS)
	Stages of Life	5263-ASN	Obesity – Carbohydrate Intake and Weight
			Management
	ne Interactions	5264-ASN	Obesity – Chronic Diseases
5220-ASN	Nutrient-Gene Interactions	5265-ASN	Obesity – Physical Activity
5221-ASN	Epigenetics and Autoimmune Disease	5266-ASN	Obesity – Energy Expenditure
5222-ASN	Nutrient Effects on Stem Cell differentiation and	5267-ASN	Obesity – Socioeconomics
E222 ACM	Gene Expression	5268-ASN	Development of Obesity: Dynamics of Physiological
5223-ASN	Regulation of Intestinal Nutrient Metabolism and Gene Expression		and Pathophysiological Parameters
5224-ASN	Nutrient Control of Proteomics and Metabolomics	Vitamins an	nd Minerals
5225-ASN	Obesity, Inflammation, and Nutrigenomics	5280-ASN	Iron, Copper and Chronic Disease
5226-ASN	Nutrient-Gene Interaction in Neurodegenerative	5281-ASN	Vitamin D and Obesity – From Cellular to Clinical
	Diseases: Role of Vitamin D		Trials
5227-ASN	Nutrient Regulation of Epigenetics in Maternal	5282-ASN	Water and Fat Soluble Vitamins and
	Programming		Chronic Disease
		5283-ASN	Micronutrient Bioavailability and
	Epidemiology	E202 ACN	Antioxidant Function
5230-ASN 5231-ASN	Dietary Assessment Tools and Applications Epidemiological Research Addressing Diet and	5283-ASN 5285-ASN	Zinc Selenium
SZSI-ASIN	Health Outcomes	5286-ASN	B Vitamins and One-Carbon Metabolism
5232-ASN	Research with Dietary Supplements and Bioactive	5287-ASN	Micronutrient Interventions
	Components		
5233-ASN	Advancing Nutritional Epidemiology with Public	Internationa	al Nutrition
	Use and Commercial Data Sets	5140-ASN	International Nutrition
5234-ASN	Assessment of Child and Adolescent Nutritional		
E00E 101	Status, Growth, and Obesity	Medical Nut	
5235-ASN	Epidemiological and Statistical Approaches for the	5200-ASN	Personalized Nutrition
EDDC ACN	Study of the Effects of Food on the Microbiome	5201-ASN	Nutrition and the Microbiome
5236-ASN	Nutrition without Borders: Epidemiologic Methods	5202-ASN	Interventions for the Treatment and Prevention of
	in Examining Health Disparities and Nutrition	5203-ASN	Nutrition-Related Diseases Nutrition and Inflammation
	Outcomes in Diverse Populations	5203-ASN 5204-ASN	Prenatal Nutrient Programming
Nutritional I	mmunology	520 F A5IN	Translative translation of the state of the
5240-ASN	Nutritional Immunology	Policy	
5241-ASN	Nutrition, Infection and Immunity	5000-ASN	Community Nutrition Programs and Policies for
	, and the second		Older Adults
Nutrition Tra	anslation	5024-ASN	Food Systems and Food Policy
5250-ASN	The Use of Consumer Research Insights to Guide	5211-ASN	Aligning Nutrition Education Programs and
	Scientific Research		Research to Promote Change
5251-ASN	Nutrition Science Translation for Policy, Practice	5251-ASN	Nutrition Science Translation for Policy, Practice
	and Consumers	5254-ASN	and Consumers Food Polated Robaviors and Implications for Food
		3234-A3IV	Food Related Behaviors and Implications for Food Policy
			. 55

Other

5300-ASN 5301-ASN Dietary Supplements and Human Performance Sports Nutrition

Education and Teaching

5320-ASN Nutrition Education in Medical and Other

Professional Schools

5321-ASN Nutrition Education for Practicing Clinicians 5322-ASN Innovations in Undergraduate, Graduate and

Medical Nutrition Education





American Society for Nutrition Excellence in Nutrition Research and Practice



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 Cardiac Pharmacology

3001-ASPET CVP-General

3002-ASPET CVP-Injury/Protection/Remodeling

3003-ASPET CVP - Thrombosis

3004-ASPET Vascular Pharmacology – General

3005-ASPET Vascular Pharmacology – Cerebral/Coronary/

Pulmonary

3006-ASPET Vascular Pharmacology – Endothelium 3007-ASPET Vascular Pharmacology – Ion Channels/

Exchangers

Cellular and Molecular Pharmacology

3008-ASPET	Biologics/Biosimilars
3009-ASPET	Chemotherapy (non-cancer)
3010-ASPET	Gene Expression/Regulation
3011-ASPET	Genomics/Proteomics
3012-ASPET	Signal Transduction – General
3013-ASPET	Signal Transduction – Cell Surface Receptors
3014-ASPET	Signal Transduction – G Proteins/GPCRs
3015-ASPET	Signal Transduction – Ion Channels
3016-ASPET	Signal Transduction – Kinases/Phosphatases
3017-ASPET	Signal Transduction – Second Messenger

Systems

3018-ASPET Signal Transduction – Nuclear Receptors

3019-ASPET Mechanisms of Cell Injury/Death

Central Nervous System Pharmacology 3020-ASPET Behavioral Pharmacology – General

	3 ,
3021-ASPET	Drugs of Abuse
3022-ASPET	Memory/Cognition/Learning
3023-ASPET	Neuropharmacology – General
3024-ASPET	Neuropsychiatric Disorders
3025-ASPET	Neurotoxicology – General
202C ACDET	Marinataviaalami. Marinamiataatira Amar

3026-ASPET Neurotoxicology – Neuroprotective Agents

3027-ASPET Neurotransmission

3028-ASPET Neurotransmitter Receptors

3029-ASPET Blood-Brain Barrier

Drug Metabolism and Disposition (DMD)

**3030-ASPET	DMD – Biotransformation/Chemistry
**3031-ASPET	DMD – Gene Expression and Regulation
**3032-ASPET	DMD – Pharmacokinetics/Toxicokinetics
**2022 ACDET	DMD Dhasa I Engumes

**3033-ASPET DMD – Phase I Enzymes **3034-ASPET DMD – Phase II Enzymes

**3035-ASPET DMD – Reactive Metabolites and Toxicity

Anti inflammataria

**3036-ASPET DMD – Transporters

2027 ACDET

Systems Pharmacology and Toxicology

3037-ASPET	Anti-inflammatories
3038-ASPET	Developmental Pharmacology/Toxicology
3039-ASPET	Diabetes and Metabolic Syndrome
3040-ASPET	Gastrointestinal Pharmacology/Toxicology
3041-ASPET	General Pharmacology/Toxicology
3042-ASPET	Genotoxicity/Mutagenesis
3043-ASPET	Hormones and Hormone Receptors
3044-ASPET	Immunopharmacology/Toxicology
3045-ASPET	Integrative Organ Systems Pharmacology
3046-ASPET	Mechanisms of Toxicity
3047-ASPET	Ocular Pharmacology/Toxicology
3048-ASPET	Pharmacology and Women's Health
3049-ASPET	Pulmonary Pharmacology/Toxicology
3050-ASPET	Regenerative Pharmacology/Stem Cells
3051-ASPET	Regenerative Pharmacology/Tissue Engineering
3052-ASPET	Renal Pharmacology/Toxicology
3053-ASPET	Skeletal Muscle Pharmacology/Toxicology
3054-ASPET	Smooth Muscle Pharmacology/Toxicology
3055-ASPET	Targets of Toxicant Sensitivity in Aging

Pharmacogenomics and Translational Pharmacology

3056-ASPET	Clinical Pharmacology/Toxicology	
3057-ASPET	Computational Biology Applied to Pharmacolo	gy
3058-ASPET	Pharmacogenomics/Proteomics/Metabolomics	S
3059-ASPET	Pharmacology of Networks	
3060-ASPET	Translational PK/PD	

Drug Discovery and Development

3061-ASPET	Drug Formulation and Delivery
3062-ASPET	High Throughput Screening
~~~~	

3063-ASPET Natural Products

3064-ASPET New Methodology for Drug Discovery and

Screening

3065-ASPET Peptide Drug Development

3066-ASPET Polypharmacology 3067-ASPET Proteins as Drug Targets

#### **Pharmacology Education**

3068-ASPET Knowledge Objectives in Pharmacology

3069-ASPET Small Group Learning

3070-ASPET Technology in Pharmacology Teaching

3071-ASPET Use of Social Media in Pharmacology Education

#### **Cancer Pharmacology**

3072-ASPET Cancer Chemotherapy 3073-ASPET Cancer Pharmacokinetics 3074-ASPET Cancer Prevention 3075-ASPET Cancer Stem Cells

#### Pharmacology – Other

3076-ASPET Pharmacology – All Other

- * For topic categories 8100 and 8200 see page 35.
- ** Abstracts submitted to this category may be eligible for presentation at the Drug Metabolism Platform Session as well as inclusion in a poster session.





#### **GENERAL INFORMATION**

#### **Important Dates**

November 8, 2012 February 22, 2013 March 22, 2013 March 22, 2013 Abstract Submission Deadline Early Registration Deadline Hotel Reservations Deadline Cancellation Deadline

#### **REGISTRATION**

Register by February 22, 2013 to receive the discounted registration fee. Complete instructions are on the website at www.experimentalbiology.org.

The registration fee includes entrance to scientific sessions, exhibits, and a copy of the Program. **NOTE: The Program will NOT be mailed this year. You may pick up your program on-site.**The abstracts will only be published online as part of the FASEB Journal. Paper copies 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 2013 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 22. Several societies have planned special activities that require a fee **in addition** to the Experimental Biology 2013 registration fee. Details on the activities and how to register for these activities are included on pages 58-59.

*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

EB Registration Fees	On or Before February 22	After February 22
Sponsoring/Participating Society Members	\$360	\$470
Nonmembers	\$525	\$635
Retired Society Members	\$130	\$150
*Graduate Student Members	\$80	\$90
*Graduate Student Nonmembers	\$100	\$110
**Undergraduate Students High School Students and Teachers	3	

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: Complimentary registration is available for qualified press to cover EB 2013. Pre-registration for members of the media and freelance writers is required. A letter of assignment is necessary. Please visit <a href="http://experimentalbiology.org/content/PressInformation.aspx">http://experimentalbiology.org/content/PressInformation.aspx</a> to view our full press credentials policy. Send your completed request to <a href="media@faseb.org">media@faseb.org</a>.

### ALL REGISTRANTS – PLEASE NOTE: NO MATERIALS WILL BE MAILED IN ADVANCE

No badges or meeting programs will be mailed prior to the meeting. There will be on-site kiosks set up to print your badge upon your arrival at the meeting.

Programs will not be mailed in advance and can be picked up at the meeting along with other materials.

On-site Registration: On-site registration will be available at the Boston Convention and Exhibition Center beginning Friday, April 19, continuing through Wednesday, April 24.

Cancellation and Refunds: The receipt and a letter requesting a refund of the registration fee must be received by March 22, 2013. A \$50 non-refundable processing fee will be deducted from the refund. After March 22, 2013 no refunds will be issued. Mail to: EB 2013 Registration Office, 9650 Rockville Pike, Bethesda, MD 20814-3998.

#### **HOTEL INFORMATION**

Deadline for hotel reservations: March 22, 2013

A list of participating hotels with locations, discounted rates, amenities and instructions for making a reservation are online at <a href="https://www.experimentalbiology.org">www.experimentalbiology.org</a>. Be sure to read the information on the importance of staying at an EB official hotel.

The Greater Boston Convention & Visitors Bureau and Experient Inc. is 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 2013 registration fee. If you plan to attend any of these activities, please note where and how to register.



### 21st Annual AAA Awards Banquet & Reception – Tuesday, April 23

The American Association of Anatomists cordially requests the

pleasure of your company at the 21st Annual AAA Awards Banquet on Tuesday, April 23, 2013. The Banquet—from 7:00 PM to 10:00 PM at the Renaissance Boston Waterfront Hotel—will feature a cocktail reception, dinner, & presentation of AAA awards. Tickets are \$66 and will be available for purchase online via the AAA Website (www.anatomy.org). Tickets will not be sold on-site at the meeting.



### ASN Fellows, 50-Year Members, and Past Presidents Luncheon

Join ASN in celebrating the accomplishments and achievements of our past and present Fellows, 50-

Year members, and former society presidents over lunch at the annual meeting **Monday, April 22.** This luncheon will include a presentation honoring the newly inducted class of 2013 ASN Fellows. All members are invited to attend; guests are permitted. All newly inducted Fellows will receive complimentary registration. Tickets can be purchased from www.nutrition.org. For additional information, email meetings@nutrition.org.



The American Physiological Society will be holding several social events in conjunction with the EB meeting. **APS registrants are encouraged to participate in these social events.** EB attendees

expressing interest in physiology are also invited to attend.

The **Opening Ceremony and Walter B. Cannon Lecture** on Saturday, April 20 at 5:30 PM is free of charge.

**APS Opening Reception** on Saturday, April 20, 7:00 PM - 9:00 PM, room 205, Boston Convention Center is free for APS members and those expressing interest in physiology on their registration form, tickets will be required for entry.

APS Closing Party on Wednesday, April 24, 6:30 PM to 10:00 PM, room TBD, tickets are \$15.00 in advance/\$25.00 on site.

Please sign up for these events when registering for the meeting by checking the boxes on the registration form. The charge for each event will be \$15.00 in advance/\$25.00 on site.



#### ASBMB Graduate/Postdoctoral Professional Development Program –

#### Saturday, April 20, 9:00 AM - 3:30 PM

Features a career forum, workshops and networking luncheon: \$25 ASBMB members; \$35 all other EB registrants. Recipients of the ASBMB 2013 Graduate Minority and Graduate/Postdoctoral Travel Awards receive event registration as part of the award and do not have to register seperately for this event. Sign up while registering for the EB2013 meeting. Event registration will close when fully subscribed. There will be no on-site event registration. Visit <a href="https://www.asbmb.org/meeting2013">www.asbmb.org/meeting2013</a> for details and program information.



#### 13th Annual Career Development Program and Lunch: Dancing with Journals: A Guide to Submission and Review

#### Sunday, April 21, 2013 at 11:45 AM

ASIP Trainee Members and AAA Student Members will receive a complimentary ticket.

Tickets are \$20 for Regular and Emeritus Members

#### **ASIP Centennial Celebration Reception**

Monday, April 22, 2013 at 6:00 PM Tickets are \$25.00 each

#### Lunch & Learn: Responsible Conduct in Research

Tuesday, April 23, 2013 at 11:45 AM \$20.00 ASIP Member Ticket Cost \$30.00 Non-Member Ticket Cost

#### SPECIAL TICKETED ACTIVITY

If you plan to attend this activity, please note special registration:

FASEB Career Resources Center/MARC Program: "Write Winning Grant Proposals" All-day Seminar & Workshop: Saturday, April 20 [advance registration required]

This workshop will be held 8:00 AM - 5:00 PM in the BCEC

Details will be posted on the EB website, www.experimentalbiology.org. Registration is required for the course which is free for EB 2013 registered attendees. Tickets are required for entry and will be issued with the meeting registration materials. Space for this event is limited, so early registration is encouraged.

This widely acclaimed seminar comprehensively addresses both practical and conceptual aspects that are important to the proposal-writing process. It is designed for faculty members and advanced postdoctoral fellows who have had some exposure to writing grant applications, either through training/ mentoring or personal experience. The presentation is tailored to meet the needs of the audience, i.e., to emphasize the funding agencies (federal, private, and/or industrial sources) that are of greatest

interest to the attendees. Emphasis is given to such things as idea development, identification of the most appropriate granting agency, how to write for reviewers, and tips and strategies that are of proven value in presenting an applicant's case to reviewers.

This seminar program presented at EB 2013 will focus on NIH and emphasize how to cope with the changes in how grant proposals to NIH are written and reviewed. Regardless of the agency, participants are taught to write with a linear progression of logic, which leads reviewers through their applications. It is stressed that applicants are writing for two different audiences – the assigned reviewers, who have read the application in its entirety, and non-assigned reviewers who may have read little, or nothing, of the proposal before the meeting of the review panel. Strategies designed to merit a fundable priority score are emphasized. [Advanced registration and pre-approval to participate in the seminar are required.]



#### CHILD CARE



## Child care services will be provided on site!

We encourage families to travel to Boston and enjoy the many family oriented activities in the area. Back by popular demand the sponsoring societies of the Experimental Biology will provide formal child care at the meeting. We will provide more information shortly. It is strongly discouraged to bring your children to the session rooms. We urge you to make reservations in advance of the meeting

#### SATELLITE REGISTRATION DESK

Satellite registration will be available at Co-Headquarter Hotels, Renaissance Boston Waterfront and Westin Boston Waterfront.





### Restaurants, Dining, and Cool Beans!!!

Boston fare ranges from authentic international to cutting-edge, fusion-style cuisine. The authentic clam chowder and Boston Cream Pie are as good as you've heard and the city's outdoor cafes and waterfront views make for ideal dining experiences. From burgers to bistros, search our database by cuisine, neighborhood and price to find the restaurant of your choice.

Cambridge is often referred to as "Boston's Left Bank" with an atmosphere and attitude all its own. It's the spirited, slightly mischievous side of Boston, just a bridge away across the Charles River. Packed with youthful vitality and international flair, it is a city where Old World meets New Age in a mesmerizing blend of history and education.

### **Air Travel/Ground Transportation:**

Boston's Logan Airport is located a convenient two miles from the city center with several public airport transportation options from downtown and suburban locations. There are approximately 40 airlines that served Boston and more than 28 million passengers last year.

Travel like a local and take the "T" – Boston's public transportation system. Operated by the Massachusetts Bay Transportation Authority, the "T" will take you (almost) everywhere in the Greater Boston area and beyond. Dock hop and dine by using water transportation to explore the many restaurants and places of interest along the Fort Point Channel and South Boston Waterfront.

## 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 www.experimentalbiology.org

#### **Don't Forget:**

- Submit your abstract by 11/8/12
- Register for the meeting before 2/22/13 to save big!
- Make hotel reservations by 3/22/13
- · Make airline reservations!

#### **November 8, 2012**

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

#### February 22, 2013

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

#### March 22, 2013

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

#### March 22, 2013

 Deadline to request a refund of advance registration. No refunds will be issued after this deadline has passed.

#### **April 20 – 24, 2013**

· Attend Experimental Biology meeting in Boston, MA!

# We Hope to See You in Boston!

FOLLOW US ON TWITTER USING #EB2013!





LIKE US ON FACEBOOK
FOR THE LATEST MEETING
UPDATES FROM EB AND THE
SOCIETIES!



## EXHIBITION AND SPONSORSHIP OPPORTUNITIES AT EB 2013

#### **Apply for Space Today!**

Don't miss the opportunity to connect with leaders and decision makers looking for products and services like yours! Reserve your booth space by January 8, 2013 and your company information will be printed in the official meeting program. Application can be found at www.experimentalbiology.org under Exhibitors.

#### **Advertising**

Display your company name, logo, booth number and message in the meeting program. The program is posted in full on the website in advance of the meeting. Advertising rates, specifications and order forms can be found on the website.

#### **Booth Upgrade**

Increase your exposure and ROI by upgrading your booth in our virtual floor plan. Other options include adding your URL, company logo, product promotion and company video. Please contact *Jkearney@faseb.org* for additional information.

#### **Product Workshops**

Highlighting your company's products and services in a private theater setting. Product workshops will be held on the exhibit floor and in session rooms for one hour increments and include complimentary A/V equipment. Requests are accepted on a first-come, first-served basis. Complete the online application located on our website. Deadline for consideration is January 8, 2013. A description of the presentation will be included in the meeting program.

#### Attendee Mailing Lists

Reach new prospects and stay connected by purchasing the advance or post show attendee mailing lists. Names are sorted by zip code and can be segmented by domestic, Canadian or International addresses. Complete the online order form located on our website.

#### Company Box Ad

Maximize your visibility by displaying your company's logo next to your company information in the meeting program. Further details and pricing can be found on our website.

#### **Sponsorship Opportunities**

Sponsorship and marketing opportunities are a great way to get the brand recognition and visibility that you want. Further details can be found online.

Get your company (or organization) in front of over 14,000 scientists from organizing and guest societies of Experimental Biology.

Reserve your space on the floor today! For details, prices, and more visit: www.experimentalbiology.org/eb/pages/Exhibitors.aspx.



#### **FASEB Office of Scientific Meetings and Conferences**

9650 Rockville Pike Bethesda, MD 20814-3998

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## **Important Dates**

November 8, 2012 Abstract Submission Deadline
February 22, 2013 Early Registration Deadline
March 22, 2013 Hotel Reservations Deadline



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