



## ABSTRACT TOPICS – ANATOMY

**Late-breaking abstracts will be programmed into poster sessions  
for presentation on Wednesday, April 26, 2017.**

- 100-AAA Anatomy
- 101-AAA Anatomy Education
- 102-AAA Biological Anthropology
- 103-AAA Bones, Cartilage and Teeth
- 104-AAA Cardiovascular Biology
- 105-AAA Cell Biology
- 106-AAA Development and Growth
- 107-AAA Evolution and Comparative Anatomy
- 108-AAA Extracellular Matrix
- 109-AAA Imaging
- 110-AAA Muscle
- 111-AAA Neurobiology
- 112-AAA Regenerative Medicine, Stem Cells, Wound Healing and Bioengineering



## ABSTRACT TOPICS – PHYSIOLOGY

Late-breaking abstracts will be programmed into poster sessions for presentation on Wednesday, April 26, 2017.

- 600-APS Cardiovascular
- 601-APS Cell and molecular physiology
- 602-APS Central nervous system
- 603-APS Comparative and evolutionary physiology
- 604-APS Biomedical engineering
- 605-APS Endocrinology and metabolism
- 606-APS Environmental and exercise physiology
- 607-APS Epithelial transport
- 608-APS Gastrointestinal and liver physiology
- 609-APS History of physiology
- 610-APS Hypoxia
- 611-APS Microcirculation
- 612-APS Muscle biology
- 613-APS Neural control and autonomic regulation
- 614-APS Nutrition Physiology
- 615-APS Physiological genomics
- 616-APS Renal
- 617-APS Respiration
- 618-APS Sex differences in physiology
- 619-APS Teaching of physiology
- 620-APS Translational physiology
- 621-APS Water and electrolyte homeostasis



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**2000-ASBMB Genome Dynamics: DNA Replication, Repair and Recombination**

**2001-ASBMB DNA Structure and Topology**

**2002-ASBMB DNA Replication**

**2003-ASBMB DNA Polymerases, Replicases and Replisomes**

**2004-ASBMB DNA Damage**

**2005-ASBMB DNA Repair**

**2006-ASBMB DNA Recombination**

**2007-ASBMB Telomeres and Telomerase**

**2020-ASBMB Chromatin Structure and Gene Expression**

**2021-ASBMB Chromosomes**

**2022-ASBMB Chromatin Structure, Remodeling and Assembly**

**2023-ASBMB Epigenetic Modifications of DNA and RNA**

**2024-ASBMB Histone Modifications**

**2025-ASBMB Transcriptional Assemblies and Mechanisms**

**2026-ASBMB Transcriptional Regulation**

**2027-ASBMB Transcriptomics**

**2028-ASBMB Riboswitches**

**2040-ASBMB RNA: Processing, Transport, and Regulatory Mechanisms**

**2041-ASBMB RNA Polymerases**

**2042-ASBMB RNA Binding Proteins**

**2043-ASBMB RNA Structure, Folding, and Dynamics**

**2044-ASBMB Non-coding RNAs**

**2045-ASBMB CRISPR: Methods and Applications**

**2046-ASBMB RNA Processing and Editing**

**2047-ASBMB Catalytic RNA**

**2048-ASBMB RNA Turnover**

**2049-ASBMB RNA Transport and Localization**

**2060-ASBMB Protein Chemistry, Synthesis and Turnover**

**2061-ASBMB Ribosomes**

**2062-ASBMB Mechanisms and Regulation of Protein Synthesis**

**2063-ASBMB tRNA and tRNA Synthetases**

**2064-ASBMB Protein Interactions and Binding**

**2065-ASBMB Protein Modifications**

**2066-ASBMB Protein Structure and Biophysics**

**2067-ASBMB Protein Folding and Chaperones**

**2068-ASBMB Protein Dynamics and Fluctuations**

2069-ASBMB Protein Misfolding and Aggregation  
2070-ASBMB Intrinsically Disordered Proteins and Amyloids  
2071-ASBMB Protein Turnover and Quality Control  
2072-ASBMB Ubiquitin Pathway and Targeting  
2073-ASBMB Proteasomes: Structure and Regulation  
2074-ASBMB Proteolytic Enzymes and Inhibitors  
2080-ASBMB Biomolecular Catalysis  
2081-ASBMB Chemistry of Catalysis  
2082-ASBMB Enzyme Mechanisms, Kinetics and Energetics  
2083-ASBMB Structural Dynamics of Enzymes  
2084-ASBMB Enzyme Regulation and Allostereism  
2085-ASBMB Multienzyme Complexes  
2086-ASBMB Membrane Enzymes  
2087-ASBMB Cytochrome P450  
2088-ASBMB Enzyme Inhibitors and Drug Design  
2100-ASBMB Chemical Biology, Drug Discovery and Bioanalytical Methods  
2101-ASBMB Drug Screening and Development  
2102-ASBMB Chemical Biology of Natural Products and Small Molecules  
2103-ASBMB Chemical Biology of Nucleic Acids  
2104-ASBMB Chemical Probes, Biosensors and Biomarkers  
2105-ASBMB Protein and Peptide Chemistry  
2106-ASBMB Protein Engineering and Design  
2107-ASBMB Protein-Small Molecule Interactions  
2108-ASBMB Bioanalytical and Biophysical Methods  
2109-ASBMB Nanotechnology  
2120-ASBMB Systems Biology Technologies and Applications  
2121-ASBMB Nucleic Acids Sequencing  
2122-ASBMB Microarray Technologies  
2123-ASBMB siRNA, shRNA and CRISPR Technologies  
2124-ASBMB Genomics  
2125-ASBMB Transcriptomics  
2126-ASBMB Pharmacogenomics and Toxicogenomics  
2127-ASBMB Proteomics  
2128-ASBMB Global Covalent Modifications  
2129-ASBMB Metabolomics  
2130-ASBMB Systems Biology and Regulatory Networks  
2131-ASBMB Computational Algorithms and Mathematical Biology  
2140-ASBMB Signal Transduction and Cellular Regulation  
2141-ASBMB Growth Factor and Cytokine Signaling  
2142-ASBMB Hormone and Nuclear Hormone Signaling  
2143-ASBMB Plant Hormones and Signaling  
2144-ASBMB Extracellular Matrix and Cell Signaling  
2145-ASBMB G proteins and Small GTPases  
2146-ASBMB Protein Kinases  
2147-ASBMB Phosphatases

2148-ASBMB Ion Channels  
2149-ASBMB Calcium  
2150-ASBMB Cyclic Nucleotides  
2151-ASBMB Inositol Phosphates  
2152-ASBMB Nitric Oxide  
2153-ASBMB Redox Signaling  
2154-ASBMB Protease Signaling Pathways  
2155-ASBMB Apoptosis and Cell Death  
2156-ASBMB Cell Stress and Xenobiotics  
2157-ASBMB Allosteric Control of Signaling Pathways  
2158-ASBMB Signaling Integration and Crossregulation  
2159-ASBMB Spatiotemporal Control of Signaling  
2160-ASBMB Cell Motility and Migration  
2161-ASBMB Cell Cycle Control and Proliferation  
2162-ASBMB Checkpoint Mechanisms  
2163-ASBMB Mitosis and Cytokinesis  
2164-ASBMB Tumor Suppressors and Tumor Drivers  
2165-ASBMB Cancer Signaling and Therapeutics  
2166-ASBMB Mechanisms of Aging  
2167-ASBMB Neurobiology and Neuronal Signaling  
2168-ASBMB Immunity  
2169-ASBMB Targeted Therapies and New Targets for Drug Discovery  
2180-ASBMB Microbial Systems and Parasitology  
2181-ASBMB Bacterial Communication  
2182-ASBMB Microbe-Host Interactions  
2183-ASBMB Plant-Microbe Interactions  
2184-ASBMB Parasite Life Cycle  
2185-ASBMB Parasite-Host Interactions  
2186-ASBMB Antibiotic Resistance  
2187-ASBMB Antibacterial Targets and Drug Discovery  
2188-ASBMB Microbiomes  
2189-ASBMB Gut Microbiomes  
2200-ASBMB Metabolism and Bioenergetics  
2201-ASBMB Metabolic Networks and Regulation  
2202-ASBMB Amino Acid Metabolism  
2203-ASBMB Nucleotide Metabolism  
2204-ASBMB Plant Metabolism and Biosynthetic Pathways  
2205-ASBMB Energy metabolism, oxidative phosphorylation  
2206-ASBMB Oxidative Stress and Reactive Oxygen  
2207-ASBMB Metabolism and Aging  
2208-ASBMB Metabolism and Cancer  
2209-ASBMB Metabolism and Neurodegeneration  
2210-ASBMB Metabolism and Nutrition  
2211-ASBMB Diabetes, Obesity and Metabolic Syndrome  
2220-ASBMB Lipids and Membranes

2221-ASBMB Glycerol Lipids  
2222-ASBMB Sterols  
2223-ASBMB Eicosanoids  
2224-ASBMB Sphingolipids  
2225-ASBMB Plant Lipids  
2226-ASBMB Biofuels  
2227-ASBMB Lipid Metabolizing Enzymes  
2228-ASBMB Regulation of Lipid Metabolism  
2229-ASBMB Lipidomics  
2230-ASBMB Lipid Signaling  
2231-ASBMB Lipids and Inflammation  
2232-ASBMB Lipid Storage and Trafficking  
2233-ASBMB Membrane Structure, Function and Assembly  
2234-ASBMB Membrane Proteins and Lipid Interactions  
2235-ASBMB Lipid Domains and Lipid Rafts  
2236-ASBMB Membrane Transport and Channels  
2240-ASBMB Cell and Organelle Dynamics  
2241-ASBMB Organelle Structure and Biogenesis  
2242-ASBMB Vesicle Trafficking and Cargo  
2243-ASBMB Nuclear Dynamics  
2244-ASBMB Endoplasmic Reticulum  
2245-ASBMB Mitochondria in Health and Disease  
2246-ASBMB Diseases of Organelle Malfunction  
2247-ASBMB Cytoskeletal Structure and Dynamics  
2260-ASBMB Glycans and Glycobiology  
2261-ASBMB Glycan Chemistry and Structure  
2262-ASBMB Glycan Function and Control Mechanisms  
2263-ASBMB Glycans and Cell Recognition  
2264-ASBMB Plant Glycobiology  
2265-ASBMB Microbial/Viral Glycobiology  
2266-ASBMB Glycosyltransferases and Hydrolases  
2267-ASBMB Protein-Glycan Interactions  
2268-ASBMB Glycans in Development and Disease  
2269-ASBMB Glycan Biotechnology and Drug Development  
2300-ASBMB ASBMB Education and Professional Development  
2301-ASBMB Career Development Plans and Opportunities for Undergrads, Grad Students, and Postdocs  
2302-ASBMB Career Outlook for Hiring and Promotion in Academia  
2303-ASBMB Careers Inside Academia  
2304-ASBMB Careers Outside Academia  
2305-ASBMB Education and Professional Development – All Other  
2306-ASBMB Engaging Students in STEM Learning  
2307-ASBMB Enrollment and Retention for STEM Students of All Backgrounds  
2308-ASBMB Expanding Undergraduate Research Opportunities  
2309-ASBMB Flipping Classrooms and Research Labs  
2310-ASBMB Graduate Education

**2311-ASBMB Handling Visa and Immigration Issues for STEM Students**  
**2312-ASBMB Improving STEM Transfer Student Success**  
**2313-ASBMB Interdisciplinary Education Concept Inventories**  
**2314-ASBMB Laboratory Courses**  
**2315-ASBMB Large-Enrollment Courses**  
**2316-ASBMB Learning Tools in Molecular Biology and Biochemistry Undergraduate Education**  
**2317-ASBMB Medical and Dental Education**  
**2318-ASBMB Mentoring and Networking for Success**  
**2319-ASBMB Mentoring Junior Faculty Towards Tenure and Promotion**  
**2320-ASBMB Navigating the Academic and Employment Pipeline for Foreign STEM Students**  
**2321-ASBMB New Tools in Online Education**  
**2322-ASBMB Undergraduate Education**  
**2323-ASBMB Using Electronic Tools to Revamp the Research Workspace: e-notebooks, archiving data and beyond**  
**2324-ASBMB Using Social Media as a Tool for Student Success**



## ABSTRACT TOPICS – PATHOLOGY

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- 401-ASIP Biobanking and Biorepositories
- 402-ASIP Bioinformatics and Digital/Computational Pathology
- 403-ASIP Cardiac Pathobiology
- 404-ASIP Cell Death, Tissue Injury and Repair
- 405-ASIP Environmental and Toxicological Pathology
- 406-ASIP Extracellular Matrix in Pathobiology
- 407-ASIP Genetic Diseases
- 408-ASIP Gene Expression
- 409-ASIP Immunohistochemistry, Microscopy, and Imaging
- 410-ASIP Inflammation and Immunopathology
- 411-ASIP Liver Pathobiology
- 412-ASIP Lung Pathobiology
- 413-ASIP Metabolic Disorders and Metabolomics
- 414-ASIP Molecular Diagnostics
- 415-ASIP Mucosal Inflammation, Epithelial-Leukocyte Interactions and Epithelial Pathobiology
- 416-ASIP Neoplasia
- 417-ASIP Neuropathology
- 418-ASIP Non-Neoplastic Tissue and Organ Pathobiology
- 419-ASIP Pathobiology of Aging
- 420-ASIP Pathobiology of Infectious Disease
- 421-ASIP Regenerative Medicine and Stem Cells
- 422-ASIP Vascular Biology and Pathology
- 423-ASIP Veterinary and Comparative Pathology





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## **ABSTRACT TOPICS – NUTRITION**

Late-breaking abstracts will be programmed into poster sessions  
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- 500-ASN Variability in Responses to Diet and Food**
- 501-ASN Nutrition on Healthy Growth, Development and Reproduction**
- 502-ASN Disease Prevention, Progression and Treatment**
- 503-ASN Nutrition-Related Behaviors**
- 504-ASN Food Supply and Environment**
- 505-ASN Vitamins, Minerals, and Bioactives**
- 506-ASN Energy and Nutrient Metabolism**
- 507-ASN Community, Public Health and Global Nutrition**



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**300-ASPET Cancer Pharmacology**

**301-ASPET Cardiovascular Pharmacology**

**302-ASPET Cellular and Molecular Pharmacology**

**303-ASPET Central Nervous System Pharmacology**

**304-ASPET Drug Discovery and Development**

**305-ASPET Drug Metabolism and Disposition**

**306-ASPET Pharmacogenomics and Translational Pharmacology**

**307-ASPET Pharmacology Education**

**308-ASPET Toxicology**

**309-ASPET Pharmacology – Other**