

Topic Number	Topic Description
1115-APS	Activity-dependent gene expression (D. Hood)
2170-ASBMB	Adapter Proteins
5300-ASN	Adipocytes including differentiation and signaling
4001-ASIP	Age-associated disorders
4002-ASIP	Aging and cancer
5000-ASN	Aging and Chronic Disease
2100-ASBMB	Aging and Metabolism
1164-APS	Aging and muscle function
4004-ASIP	Aging and neuropathology
4003-ASIP	Aging and vascular disease
1198-APS	Airway epithelial cell biology
1199-APS	Airway responsiveness
1200-APS	Airway smooth muscle
4084-ASIP	Allergic diseases
1153-APS	Altitude
1117-APS	Altitude and hypoxia
1201-APS	Alveolar epithelial cell biology
4067-ASIP	Alzheimer's disease
5109-ASN	Amino acid and peptide signaling
7012-AAA	Anatomical Form & Function
7013-AAA	Anatomical Variations
1001-APS	Angiogenesis and cell-based therapies (H. Cai, J. Bischoff)
4125-ASIP	Angiogenesis and vascular development
1006-APS	Angiogenesis and vascular growth
1026-APS	Angiogenesis/microvascular remodeling
5031-ASN	Animal models for diet and cancer
4005-ASIP	Animal models of aging
7014-AAA	Animal Models of Disease
4053-ASIP	Animal models of liver disease
4120-ASIP	Animal models of neoplasia
4038-ASIP	Animal models of tissue and organ pathobiology
4126-ASIP	Animal models of vascular diseases
2030-ASBMB	Antibiotics for the 21st Century
4154-ASIP	Antigen preservation
4155-ASIP	Antigen retrieval
5302-ASN	Antioxidants and free radical defenses
4018-ASIP	Apoptosis
1050-APS	Apoptosis and cell death
4082-ASIP	Applications of stem cells
4127-ASIP	Atherosclerosis and restenosis
1027-APS	Atherosclerosis/thrombosis
1051-APS	ATPase ion pumps
4085-ASIP	Autoimmune diseases

7015-AAA	Autonomic Nervous System
5243-ASN	B vitamins and methyl group metabolism
1068-APS	Behavioral neuroscience
3017-ASPET	Behavioral Pharmacology-General
2120-ASBMB	Best Practices in Program Assessment
5304-ASN	Bioavailability of nutrients
2171-ASBMB	Biochemical Pharmacology
2000-ASBMB	Biochemistry and Signaling of Lipids
1040-APS	Bioelectricity and electrophysiology
1041-APS	Biofluid mechanics
2001-ASBMB	Biogenesis, Transport and Compartmentalization of Lipids
7016-AAA	Biology of Aging
4113-ASIP	Biomarkers of neoplasia
5122-ASN	Biomarkers of nutrient metabolism
1042-APS	Biomaterials
4007-ASIP	Biomechanical signaling
2110-ASBMB	Biophysical Methods
1043-APS	Biotransport phenomena
1007-APS	Blood pressure regulation
1069-APS	Blood-brain barrier
7017-AAA	Bone, Cartilage & Connective Tissue
5244-ASN	Boron nutrition and metabolism
2220-ASBMB	Calcium
1165-APS	Calcium and muscle contractility
1166-APS	Calcium homeostasis
5241-ASN	Calcium nutrition and metabolism
4118-ASIP	Cancer invasion and metastasis
4122-ASIP	Cancer stem cells
5306-ASN	Carbohydrate and alcohol metabolism
1100-APS	Carbohydrate metabolism
5110-ASN	Carbohydrate metabolism
4097-ASIP	Carcinogenesis - molecular markers of malignant phenotypes
7018-AAA	Cardiac Biology
1008-APS	Cardiac electrophysiology
1009-APS	Cardiac function and dynamics
1167-APS	Cardiac muscle, physiology
4039-ASIP	Cardiac pathology
1118-APS	Cardiovascular responses to exercise
5308-ASN	Carnitine and taurine
1052-APS	Caveolin, lipid rafts and membrane domains
7019-AAA	Cell & Tissue Differentiation
7020-AAA	Cell Adhesion & Motility
4006-ASIP	CELL ADHESION and CELL SIGNALING
4008-ASIP	Cell adhesion molecules

4014-ASIP	Cell- and tissue-specific gene expression
2180-ASBMB	Cell Cycle
2020-ASBMB	Cell Cycle and Growth Control
4017-ASIP	CELL INJURY and TISSUE REPAIR
7000-AAA	Cell Motility & Behavior
4009-ASIP	Cell signaling pathways
4010-ASIP	Cell surface receptors
1053-APS	Cell volume, osmoregulation and water transport
1028-APS	Cell-cell communication and conducted responses
1054-APS	Cell-cell interaction/communication and the extracellular matrix
1135-APS	Cellular differentiation, adaptation and tissue development
4162-ASIP	Cellular imaging
1175-APS	Central autonomic regulation
2040-ASBMB	Centromeres and Kinetochores
1010-APS	Cerebral circulation
1070-APS	Cerebral ischemia/neuroprotection
4081-ASIP	Characterization of stem cells
2031-ASBMB	Chemical Biology
2032-ASBMB	Chemical Biology of Cell Death
2002-ASBMB	Chemical Probes of Lipid Systems
2033-ASBMB	Chemistry and Cell Biology of Natural Products
4086-ASIP	Chemokines, cytokines and endotoxins
3007-ASPET	Chemotherapy
2041-ASBMB	Chromatin in Development and Disease
2042-ASBMB	Chromatin Structure and Remodeling
2044-ASBMB	Chromosome Cycle
2045-ASBMB	Chromosome Segregation and Aneuploidy
2043-ASBMB	Chromosome, Duplication and Cohesion
5003-ASN	Chronic disease prevention in older adults using diet, nutrition education and physical activity
1119-APS	Circadian and biological timekeeping
1083-APS	Circadian rhythms: from animals to humans (R. Refinetti)
1029-APS	Clinical microcirculation
5310-ASN	Clinical nutrition topics
3045-ASPET	Clinical Pharmacology/Toxicology
5312-ASN	CNS effects of nutrients
2150-ASBMB	Co- and Post-Translational Folding
5020-ASN	Community and Public Health Nutrition
5021-ASN	Community and public health nutrition interventions
5121-ASN	Companion animal nutrition
7021-AAA	Comparative & Evolutionary Anatomy
1086-APS	Comparative and evolutionary biochemistry
1087-APS	Comparative and evolutionary cardiovascular physiology
1088-APS	Comparative and evolutionary developmental physiology

1089-APS Comparative and evolutionary endocrinology
 1090-APS Comparative and evolutionary muscular and locomotory physiology
 1091-APS Comparative and evolutionary neuroscience and behavior
 1092-APS Comparative and evolutionary nutritional and digestive physiology
 1093-APS Comparative and evolutionary osmotic and ionic physiology
 1094-APS Comparative and evolutionary physiology of aging
 1095-APS Comparative and evolutionary physiology of body size (scaling)
 1096-APS Comparative and evolutionary physiology of metabolism and energetics
 1097-APS Comparative and evolutionary respiratory and acid-base physiology
 1098-APS Comparative and evolutionary thermal biology
 1179-APS Comparative genomics
 2050-ASBMB Computational Studies of Mechanistic and Dynamical Aspects of Enzymes
 8100-EB Computers in research and teaching
 2090-ASBMB Conformational Transitions and Protein Aggregation
 1101-APS Connective tissue and bone metabolism
 1168-APS Contractile and regulatory proteins
 1202-APS Control of breathing: central connectivity and neurotransmission
 1203-APS Control of breathing: chemoreception
 1204-APS Control of breathing: development
 1205-APS Control of breathing: integrated responses
 1206-APS Control of breathing: rhythm generation
 1002-APS Control of coronary blood flow (W.M. Chilian)
 1223-APS Control of renal function and blood pressure in metabolic syndrome and diabetes

 5242-ASN Copper nutrition and metabolism
 1011-APS Coronary circulation
 1116-APS Current concepts in the control of skin blood flow in humans (C. Crandall, J. Johnson)

 3000-ASPET CVP-General
 3001-ASPET CVP-Injury/Protection/Remodeling
 2221-ASBMB Cyclases
 2222-ASBMB Cyclic Nucleotides
 2021-ASBMB Cyclins and Cyclin Dependent Kinases
 2010-ASBMB Cytochrome P450
 2172-ASBMB Cytokine and Growth Factor Signaling
 1207-APS Cytokines and lung function
 1055-APS Cytoskeleton, cell mechanics, motility and contractility
 4077-ASIP Demyelinating diseases
 4072-ASIP Developmental and other pediatric neuropathology
 4121-ASIP Developmental pathways in cancer
 3033-ASPET Developmental Pharmacology/Toxicology
 4040-ASIP Diabetes
 1012-APS Diabetes and insulin resistance
 1184-APS Diabetic renal disease

5030-ASN Diet and Cancer
5022-ASN Diet, food security, and health promotion in diverse communities
4109-ASIP Dietary and environmental factors in cancer
5221-ASN Dietary assessment in specific populations
5061-ASN Dietary bioactive compounds I: Mechanisms of action and molecular targets
5062-ASN transport processes
5063-ASN Dietary bioactive compounds III: Chronic disease risk reduction
5060-ASN Dietary Bioactive Compounds including Botanicals
5064-ASN Dietary bioactive compounds IV: Bioactive lipids
5065-ASN Dietary bioactive compounds V: Medicinal food
5108-ASN Dietary factors affecting lipid metabolism
5032-ASN Dietary fiber, fruits, vegetables and grains
5222-ASN Dietary patterns and obesity/health outcomes
4074-ASIP Disease of peripheral nerve
4075-ASIP Disease of skeletal muscle
2130-ASBMB Diseases of Organelle Misfunction
1132-APS Disorders of the enteric nervous system (S. Srinivasan)
1120-APS Diving and hyperbaria
3025-ASPET DMD-Biotransformation/Chemistry *
3026-ASPET DMD-Gene Expression and Regulation *
3027-ASPET DMD-Pharmacogenomics and Proteomics *
3028-ASPET DMD-Pharmacokinetics/Toxicokinetics *
3029-ASPET DMD-Phase I Enzymes *
3030-ASPET DMD-Phase II Enzymes *
3031-ASPET DMD-Reactive Metabolites and Toxicity *
3032-ASPET DMD-Transporters *
4110-ASIP DNA damage and repair
2179-ASBMB DNA Damage Signaling
2070-ASBMB DNA Enzymes
2072-ASBMB DNA Replication Origins, Initiation and Regulation
2073-ASBMB DNA Structure
1071-APS Drug abuse
3046-ASPET Drug Discovery, Development and Regulatory Affairs
3018-ASPET Drugs of Abuse
5314-ASN Eicosanoids and prostaglandins
4156-ASIP Electron microscopy
4166-ASIP EMERGING INFECTIOUS DISEASES
1194-APS Emerging properties and concepts in respiratory rhythm generation (D.R.
4041-ASIP Endocrine/GU/Gynecologic pathology
1195-APS Endothelial and epithelial signaling in lung (J. Bhattacharya)
1013-APS Endothelial cell biology
1208-APS Endothelial cell biology
7001-AAA Endothelial Cell Biology
5100-ASN Energy and Macronutrient Metabolism

1162-APS	Energy balance, cancer and diabetes (T.M. Nosek)
5102-ASN	Energy balance, macronutrient composition and weight management
4019-ASIP	Environmental pathology
4020-ASIP	Environmental toxicology
2051-ASBMB	Enzyme Design
2052-ASBMB	Enzyme Inhibitors
2053-ASBMB	Enzyme Kinetics
2054-ASBMB	Enzyme Mechanism
4107-ASIP	Epigenetic mechanisms of carcinogenesis
4027-ASIP	EPITHELIAL CELL BIOLOGY and PATHOBIOLOGY
1130-APS	Epithelial ion and water channels
1136-APS	Epithelial microbial interactions
4031-ASIP	Epithelial to mesenchymal transition and cancer
1056-APS	Epithelial transport and epithelial cell polarity
1131-APS	Epithelial transporters, exchangers, and pumps
4030-ASIP	Epithelial-microbial interactions in health and disease
4128-ASIP	Estrogen and the vessel wall
1169-APS	Excitation-contraction coupling mechanisms
5316-ASN	Exercise and metabolism
1121-APS	Exercise metabolism and locomotion
1122-APS	Exercise responses and training
1178-APS	Experimental and computational approaches for integrating genome, phenome, transcriptome and proteome (TBA)
2200-ASBMB	Experimental and Computational Approaches to Systems
2091-ASBMB	Experimental and Computational Dynamics
5120-ASN	Experimental Animal Nutrition
7022-AAA	Extracellular Matrix
4036-ASIP	Extracellular matrix - cancer invasion and metastasis
4035-ASIP	Extracellular matrix - proteases and remodeling
4033-ASIP	Extracellular matrix and cell adhesion
4034-ASIP	Extracellular matrix and cell signaling pathways
4129-ASIP	Extracellular matrix and vascular biology
2060-ASBMB	Extracellular Matrix at Multiple Biological Scales
2061-ASBMB	Extracellular Matrix at the Cellular Scale
2062-ASBMB	Extracellular Matrix at the Molecular Scale
2063-ASBMB	Extracellular Matrix at the Organism Scale
2064-ASBMB	Extracellular Matrix at the Tissue Scale
4032-ASIP	EXTRACELLULAR MATRIX IN PATHOBIOLOGY
5318-ASN	Fatty acid metabolism and transport
5320-ASN	Fermented foods
1123-APS	Fever and hypothermia
5322-ASN	Fiber and grains
2011-ASBMB	Flavoproteins
2201-ASBMB	Fluorescence Microscopy Approaches to Understand Apoptosis

5324-ASN Food composition
5111-ASN Food intake regulation
2034-ASBMB Fragment Based Drug Discovery
1014-APS Free radical signaling and injury
4021-ASIP Free radical/oxidant injury
2074-ASBMB From Genome to Epigenome – Modification and Repair
1003-APS Gap junctions mediating cell-cell communication in the vascular wall (B.E. Isakson)

1137-APS Gastric inflammation
1138-APS Gastric physiology and pathophysiology
1139-APS Gastrointestinal pathophysiology
3035-ASPET Gastrointestinal Pharmacology/Toxicology
4114-ASIP Gene arrays, tissue arrays and proteomics in neoplasia
1015-APS Gene expression and cardiovascular function
3008-ASPET Gene Expression/Regulation
1154-APS Gene expression/transcription factors
1180-APS Gene modification and gene therapy
5326-ASN Gene regulation by nutrients
4101-ASIP Gene therapy
3036-ASPET General Pharmacology/Toxicology
2121-ASBMB Genetic Diseases in Minority Populations - Sickle Cell Anemia
1181-APS Genetic models and disease mapping
1016-APS Genetic models of cardiovascular function
1072-APS Genetic models of neural disease
4098-ASIP Genomic approaches to disease markers
1140-APS Genomics and proteomics of GI systems
2202-ASBMB Genomics and Toxicogenomics
3009-ASPET Genomics/Proteomics
4130-ASIP Genomics/proteomics in vascular biology and pathology
1102-APS Gestational, fetal and neonatal biology
1141-APS GI hormones, peptides and receptors
2065-ASBMB Glycans in Development and Disease
2066-ASBMB Glycans in Pathogenic Protozoa
2131-ASBMB Golgi Structure and Biogenesis
2210-ASBMB Graduate Student/Postdoctoral Starting Faculty Transitions
1124-APS Gravitational and space
1142-APS Growth factors and stem cells
4115-ASIP Growth factors, cytokines and signal transduction in neoplasia
1133-APS Growth factors, proliferation and differentiation in the gastrointestinal system (Y. Zavros)

1103-APS Growth hormone and IGF
5328-ASN Growth regulation of animals (endocrine and metabolic)
1104-APS Growth, reproduction and sex hormones
2173-ASBMB GTPases

7002-AAA	Hard Mechanics of Soft Tissue
4022-ASIP	Healing/regeneration
1170-APS	Heat shock proteins and muscle function
4042-ASIP	Hematopathology
4131-ASIP	Hemostasis
1143-APS	Hepatic microcirculation
4050-ASIP	Hepatitis, liver fibrosis and cirrhosis
4152-ASIP	Histochemical techniques
4149-ASIP	HISTOCHEMISTRY AND MICROSCOPY
1151-APS	History of Physiology
4087-ASIP	HIV
1185-APS	Hormone and autocoid effects on the kidney
2174-ASBMB	Hormone Receptors
3037-ASPET	Hormones and Hormone Receptors
4132-ASIP	Hormones in the vasculature
5330-ASN	Human growth and body composition
5140-ASN	Human Milk and Lactation
5033-ASN	Human studies in diet and cancer
1017-APS	Hypertension
4133-ASIP	Hypertension/endothelial-dependent responses
1220-APS	Hypertension: integrated mechanisms and sequelae (G. Navar, J. Granger)
1105-APS	Hypothalamus, pituitary, adrenal, thyroid
1155-APS	Hypoxia
1156-APS	Hypoxia/second messengers
4159-ASIP	Image analysis
7023-AAA	Imaging & Microscopy
4157-ASIP	Immuno electron microscopy
1106-APS	Immunoendocrinology
4150-ASIP	Immunohistochemical techniques
3038-ASPET	Immunopharmacology/Toxicology
4079-ASIP	Infectious diseases
2123-ASBMB	Infectious Diseases in Minority Populations - Hepatitis C
2122-ASBMB	Infectious Diseases in Minority Populations - Tuberculosis
5332-ASN	Inflammation (nutrients and disease processes) Vitamins, fat-soluble
4083-ASIP	INFLAMMATION and IMMUNOPATHOLOGY
4029-ASIP	Inflammation/inflammatory mediators and the epithelium
4023-ASIP	Inflammatory injury
1224-APS	Inflammatory mediators in control of cardiovascular and renal function
4164-ASIP	INFORMATICS
4099-ASIP	Inherited diseases
2075-ASBMB	Inhibitors of DNA Transactions
4088-ASIP	Innate immunity
2223-ASBMB	Inositol Phosphates
4151-ASIP	In-situ hybridization

1030-APS	Instrumentation in microcirculatory research
1107-APS	Insulin, glucagon and other pancreatic hormones
2140-ASBMB	Integration of Carbon and Nitrogen Metabolism
4016-ASIP	Integrins and associated proteins
1157-APS	Intermittent hypoxia/oxidative stress
5334-ASN	International Nutrition
5150-ASN	International Nutrition Including Nutrition Transition and Maternal and Child Health
5336-ASN	Intestinal adaptation to diet
5106-ASN	Intestinal metabolism and adaptation
1057-APS	Intracellular calcium, calcium stores and calcium signaling
1058-APS	Intracellular pH and acid-base transport
1059-APS	Ion channels
1158-APS	Ion channels
5247-ASN	Iron nutrition and metabolism
1031-APS	Ischemia/reperfusion
4024-ASIP	Ischemia/reperfusion injury
7003-AAA	Kidney Development & Disease
2175-ASBMB	Kinase
4089-ASIP	Leukocyte-endothelial cell interactions
7004-AAA	Limb Evolution & Development
2190-ASBMB	Lipid Domains and Lipid Rafts
4135-ASIP	Lipid mediators and signaling
5107-ASN	Lipid metabolism and transport
1108-APS	Lipid, lipoprotein and cholesterol metabolism
2092-ASBMB	Lipid-Protein Interface
4134-ASIP	Lipids and lipoproteins
2003-ASBMB	Lipids as Transcriptional Regulators
5338-ASN	Lipoproteins and cholesterol
4160-ASIP	Live cell imaging
4048-ASIP	Liver cancer
4046-ASIP	Liver development
4049-ASIP	Liver growth and regeneration
4045-ASIP	LIVER PATHOLOGY
1144-APS	Liver physiology and pathophysiology
4047-ASIP	Liver stem cells - adult and cancer
4051-ASIP	Liver tissue engineering and transplantation
4056-ASIP	Lung - acute lung injury
4059-ASIP	Lung - airways, epithelia, and mucosal immunity
4063-ASIP	Lung - cancer
4062-ASIP	Lung - environmental injury
4057-ASIP	Lung - infections
4055-ASIP	Lung - normal development and developmental diseases
4058-ASIP	Lung - obstructive airway diseases
4060-ASIP	Lung - repair

4061-ASIP	Lung - vascular processes
1209-APS	Lung cell and tissue mechanics
1210-APS	Lung development
1211-APS	Lung fluid balance
1212-APS	Lung mechanics and gas exchange
4054-ASIP	LUNG PATHOLOGY
1213-APS	Lung surfactant
2093-ASBMB	Macromolecular Structure
5340-ASN	Magnesium
2076-ASBMB	Making and Re-making DNA
1109-APS	Mammary gland biology and lactation
2111-ASBMB	Mass Spectroscopy
2203-ASBMB	Mathematical Biology
5342-ASN	Mathematical modeling and nutrition
1044-APS	Mathematical models of organ systems, tissues or cells
3016-ASPET	Mechanisms of Cell Injury/Death
4108-ASIP	Mechanisms of genetic instability in neoplasia
5231-ASN	Mechanisms of nutrient modulation of immune function
4136-ASIP	Mechano-sensing and signal transduction in the vessel wall
4090-ASIP	Mediators of inflammation
2132-ASBMB	Membrane Biogenesis
2191-ASBMB	Membrane Protein Synthesis, Insertion and Assembly
4052-ASIP	Metabolic disorders of liver
5344-ASN	Metabolic processes during stress and trauma
2101-ASBMB	Metabolic Sensing and Signaling
2102-ASBMB	Metabolism
1110-APS	Metabolism during stress and trauma
1125-APS	Metabolism in muscle
1145-APS	Metal ion transport
5202-ASN	Methods in nutrition education research
2077-ASBMB	Methylating and De-methylating DNA
2204-ASBMB	Microarrays
4091-ASIP	Microbial pathogenesis
1018-APS	Microcirculation
5249-ASN	Micronutrients and chronic diseases
4158-ASIP	Microscopic techniques
1032-APS	Microvascular cell and molecular biology
1033-APS	Microvascular cell interactions
1034-APS	Microvascular flow regulation, oxygen delivery, networks
1035-APS	Microvascular inflammation
1036-APS	Microvascular mechanics and hemodynamics
1037-APS	Microvascular pathophysiology
1038-APS	Microvascular permeability/exchange
1039-APS	Microvascular pharmacology/vascular control

5248-ASN	Mineral bioavailability
5346-ASN	Mineral bioavailability
5348-ASN	Mineral metabolism, trace and ultratrace
2103-ASBMB	Mitochondria in Health and Disease
2133-ASBMB	Mitochondrial Dynamics
1004-APS	Mitochondrial mechanisms in cerebrovascular function in health and disease (D.W. Busija)
4026-ASIP	Mitochondrial mechanisms of cell death
2134-ASBMB	Mitochondrial Toxicity
2094-ASBMB	Modulation and Design of Protein Interactions
4096-ASIP	MOLECULAR and BIO-MARKERS OF DISEASE
2104-ASBMB	Molecular and Cellular Aspects of Metabolic Disease
2151-ASBMB	Molecular Mechanisms of Protein Biosynthesis
4104-ASIP	Molecular pathogenesis of genetic disease
4105-ASIP	Molecular pathogenesis of infectious disease
4100-ASIP	MOLECULAR PATHOLOGY - TRANSLATIONAL RESEARCH
1049-APS	Molecular physiology of cation-coupled bicarbonate transporters (M.O. Bevensee, I.I. Grichtchenko)
2160-ASBMB	Molecular Recognition and Enzymology of RNA
4119-ASIP	Molecular targeting for cancer therapeutics
5034-ASN	Molecular targets in diet and cancer
7024-AAA	Morphogenesis
1073-APS	Motor systems
2055-ASBMB	Multienzyme Complexes
7026-AAA	Muscle Cell Biology
1171-APS	Muscle chemistry and metabolism
7005-AAA	Muscle Development: Stem to Stern
1163-APS	Muscle fatigue (J-M. Renaud)
1126-APS	Muscle plasticity and gene regulation/expression
7025-AAA	Musculoskeletal System
1019-APS	Myocardial ischemia/myocardial metabolism
2112-ASBMB	Nanotechnology
4106-ASIP	NEOPLASIA
1225-APS	Neural control of blood pressure and fluid volume homeostasis
1176-APS	Neural control of cardiovascular function
1177-APS	Neural mechanisms in hypertension
4066-ASIP	Neural stem cells
1066-APS	Neural-glia-vascular communication in the brain (J.Filosa, E.A. Newman)
7027-AAA	Neurobiology
2176-ASBMB	Neurobiology
4068-ASIP	Neurodegenerative diseases (non-Alzheimer's)
1074-APS	Neurodegenerative disorders
1111-APS	Neuroendocrinology
1075-APS	Neuroendocrinology/neuroimmunology

4073-ASIP Neuronal injury and repair; trauma
4065-ASIP NEUROPATHOLOGY
3019-ASPET Neuropharmacology-General
1076-APS Neuroplasticity
3020-ASPET Neuropsychiatric Disorders
1146-APS Neuroregulation and motility
3021-ASPET Neurotoxicology-General
3022-ASPET Neurotoxicology-Neuroprotective Agents
1077-APS Neurotransmission
3023-ASPET Neurotransmission
3024-ASPET Neurotransmitter Receptors
1045-APS New approaches to biomedical data analysis
1046-APS New approaches to biomedical experimentation
1084-APS New insights on adaptations to environmental and metabolic stress from genomics and proteomic studies (S. Kirchner, R. Ferraris)

2113-ASBMB New Molecular and Cellular Imaging Agents
2035-ASBMB New Targets for Drug Discovery
4102-ASIP New technologies for research and diagnostics
2036-ASBMB Next Generation Drugs
2224-ASBMB Nitric Oxide
4092-ASIP Nitric oxide synthase
1020-APS Nitric oxide/carbon monoxide/vasoactive molecules
4163-ASIP Non-invasive cellular and molecular imaging
4153-ASIP Novel immunohistochemical markers
1174-APS Novel ion channels in neuro-cardiovascular regulation: focus on ASIC and TRP channels (F. Abboud)

2141-ASBMB Novel Lipid Biosynthesis in Plants
2135-ASBMB Nuclear Dynamics
4011-ASIP Nuclear receptors
2037-ASBMB Nucleic Acid- Small Molecule Interactions
1147-APS Nutrient and electrolyte absorption
1148-APS Nutrient metabolism in the liver
5160-ASN Nutrient-Gene Interactions
5002-ASN Nutrition and cognitive decline in older adults
5200-ASN Nutrition Education
5201-ASN Nutrition education and income perspectives
5035-ASN Nutrition, immunity, and cancer
5232-ASN Nutritional control of immunity in health and chronic disease
5220-ASN Nutritional Epidemiology
5230-ASN Nutritional Immunology
5350-ASN Nutritional status assessment
5352-ASN Nutritional toxicology and pharmacology
1152-APS O₂ sensing by central nervous system (I. Solomon, J. Neubauer)
5354-ASN Obesity

1112-APS	Obesity and satiety
1078-APS	Obesity and the CNS
5103-ASN	Obesity and the metabolic syndrome (including childhood and adult)
5001-ASN	Obesity in older adults
5203-ASN	Obesity prevention: Integrating research with outreach to consumers
2136-ASBMB	Organelle Dynamics
2137-ASBMB	Organelle Evolution
1067-APS	Osmoregulation by the brain (S.D. Stocker, A.M. Schreihofner)
5356-ASN	Osteoporosis, calcium and bone mineral metabolism
1079-APS	Other neurobiology
2012-ASBMB	Oxidative Phosphorylation
1186-APS	Oxidative stress and the kidney
1060-APS	Oxidative stress biology
1021-APS	Oxidized lipids/oxidant stress
1159-APS	Oxygen sensor
1149-APS	Pancreatic physiology and pathophysiology
4000-ASIP	PATHOBIOLOGY of AGING
7006-AAA	Patterning in Development
2177-ASBMB	Peptide Hormones
1022-APS	Peripheral Circulation
3044-ASPET	Pharmacogenomics
2004-ASBMB	Pharmacological Targets in Lipid Metabolism
3043-ASPET	Pharmacology and Women's Health
3047-ASPET	Pharmacology-Other
1196-APS	Phenotype and functional plasticity of pulmonary airway and vascular smooth muscle cells in health and disease (A.J. Halayko, K. Stenmark)
2178-ASBMB	Phosphatases
2225-ASBMB	Phosphodiesterases
1047-APS	Physiological systems analysis
4064-ASIP	Pleural pathology
5162-ASN	Post-transcriptional mechanisms
4112-ASIP	Premalignancy and tumor progression
2211-ASBMB	Preparing for a Successful Career in Industry
2078-ASBMB	Probes of DNA Conformation
5358-ASN	Probiotics
5360-ASN	Production animals
4137-ASIP	Progenitor cells in vascular biology
2152-ASBMB	Protease: Structure and Regulation
4025-ASIP	Proteases and their inhibitors
2153-ASBMB	Proteases in Disease
4138-ASIP	Proteases in vascular biology
1113-APS	Protein and amino acid metabolism
5104-ASN	Protein and amino acid metabolism
5105-ASN	Protein and amino acid metabolism: Aging and sarcopenia

1061-APS Protein and vesicle trafficking
2114-ASBMB Protein Chemistry
2154-ASBMB Protein Modification and Turnover
2038-ASBMB Protein- Small Molecule Interactions
2156-ASBMB Protein Synthesis in Organelles
2155-ASBMB Protein Synthesis, Folding and Turnover
2067-ASBMB Protein-Glycan Functional Interactions
2192-ASBMB Protein-Lipid Interactions As Determinants of Function
2142-ASBMB Proteolysis in Plant Growth and Development
4103-ASIP Proteomics
1214-APS Pulmonary hypertension
3039-ASPET Pulmonary Pharmacology/Toxicology
1215-APS Pulmonary vascular regulation and circulation
1062-APS Quantative cell imaging and novel methods
4161-ASIP Quantitative microscopy
5163-ASN Receptor and signal transduction mechanisms
1063-APS Receptor biology, intracellular signaling, and second messengers
2115-ASBMB Recombinant DNA Technology
2071-ASBMB Recombining and Modifying DNA
4015-ASIP Redox signaling
4069-ASIP Regeneration of neurological tissues
7028-AAA Regenerative Medicine
2058-ASBMB Regulation and Allostherism
4028-ASIP Regulation of epithelial barrier and intercellular junctions
1216-APS Regulation of gene transcription in lung
2005-ASBMB Regulation of Lipid Metabolism
2143-ASBMB Regulation of Plant Metabolism
2157-ASBMB Regulation of Protein Synthesis
4012-ASIP Regulation of transcription
2205-ASBMB Regulatory Networks
1187-APS Renal epithelial acid-base mechanisms
1188-APS Renal hemodynamics and glomerular filtration rate
1189-APS Renal ion transport, trafficking, and regulation
1190-APS Renal organic solute transport
4043-ASIP Renal pathology
1191-APS Renal pathology, toxicology, and cystic diseases
3040-ASPET Renal Pharmacology/Toxicology
1192-APS Renal water transport, urea transport, and countercurrent mechanisms
1226-APS Renin-angiotensin system in regulation of blood pressure and renal function
1114-APS Renin-angiotensin-aldosterone
2079-ASBMB Replication Fork Dynamics
4165-ASIP REPOSITORIES
7029-AAA Reproductive Biology
1127-APS Responses to physical inactivity

2158-ASBMB Ribosome and Translation
2162-ASBMB RNA Modification: Mechanism and Function
2163-ASBMB RNA Structure, Function, and Regulation
2161-ASBMB RNA-Based Gene Regulation
1197-APS Role of ATP receptors in respiratory responses point/counterpoint: ATP receptors underlie central CO₂ sensitivity or not (G.D. Funk, E. Gauda)
2056-ASBMB Role of Dynamics in Enzyme Catalysis
1221-APS Role of L-arginine metabolism in cardiovascular/renal disease (F.K. Johnson)
1134-APS Roles of intestinal epithelia and bacteria in inflammatory disease (J.R. Turner)
1099-APS Scholander award competition
2212-ASBMB Science at Undergraduate Institutions
2213-ASBMB Science Education - Classroom of the Future II
1219-APS Scientific principles for education research (B.E. Goodman)
5250-ASN Selenium nutrition and metabolism
1080-APS Sensory systems (including pain and anesthesia)
1193-APS Sex differences in renal function and disease
1222-APS Sex steroids in cardiovascular-renal physiology (J.F. Reckelhoff, C. Hinojosa-Laborde)
1023-APS Shock
1160-APS Signal transduction
3011-ASPET Signal Transduction-Cell Surface Receptors
3010-ASPET Signal Transduction-General
3012-ASPET Signal Transduction-G-proteins/GPCRs
3013-ASPET Signal Transduction-Ion Channels
3014-ASPET Signal Transduction-Kinases/Phosphatases
3015-ASPET Signal Transduction-Second Messenger Systems
1128-APS Signaling in muscle
1217-APS Signaling mechanisms in the lung
2181-ASBMB Signaling Pathways Controlling Cell Structure and Fate
2080-ASBMB Signaling Responses to DNA Damage
2182-ASBMB Signaling to the Cytoskeleton
2022-ASBMB Signaling to the Nucleus
4013-ASIP Signaling via growth factors, chemokines, and cytokines
4044-ASIP Skeletal and bone pathology
7007-AAA Skeletal Development & Repair
3041-ASPET Skeletal Muscle Pharmacology/Toxicology
1172-APS Skeletal muscle, physiology
1081-APS Sleep/wake states
2039-ASBMB Small Molecule Tools for Biology
2164-ASBMB Small RNAs
3042-ASPET Smooth Muscle Pharmacology/Toxicology
1173-APS Smooth muscle, physiology/pharmacology
5101-ASN Soy and potential health benefits
2006-ASBMB Specific Protein-Lipid Interactions

7030-AAA	Stem Cell Biology
4080-ASIP	STEM CELLS
7008-AAA	Stem Cells & Regenerative Medicine
1064-APS	Stem cells and cell growth, development and differentiation
4139-ASIP	Stem cells in vascular biology
4076-ASIP	Stroke/vascular diseases
2095-ASBMB	Structural and Mechanistic Evolution
2057-ASBMB	Structural Enzymology
2193-ASBMB	Structure and Function of G-Proteins and Their Receptors
2194-ASBMB	Structure and Function of Transport Proteins and Channels
2195-ASBMB	Structure, Function, and Biogenesis of Cell Membranes
5223-ASN	Survey methodology and monitoring of dietary intake
1082-APS	Synaptic transmission
2206-ASBMB	Systems Biology
2207-ASBMB	Systems Biology & Proteomics
1182-APS	Systems biology and computational modeling
3034-ASPET	Targets of Toxicant Sensitivity in Aging
7009-AAA	Teaching Innovations*
8200-EB	Teaching, learning and testing in the biological and biomedical sciences
7010-AAA	Technological Innovations in Anatomical Sciences
2081-ASBMB	Telomeres and Telomerase
1129-APS	Temperature regulation and fluid balance
4094-ASIP	The immune response
1085-APS	The impact of fatty acids and glucose on insulin resistance across species (K.L. Sweazea, E.J. Braun)
4093-ASIP	The inflammatory response
5362-ASN	Thermogenesis and brown adipose tissue
4140-ASIP	Thrombosis and platelets
4037-ASIP	TISSUE and ORGAN PATHOBIOLOGY
1048-APS	Tissue engineering
4078-ASIP	Toxic/metabolic diseases
2183-ASBMB	Toxins
2046-ASBMB	Transcriptional Assemblies and Mechanisms
5161-ASN	Transcriptional mechanisms
2047-ASBMB	Transcriptional Regulation
1183-APS	Transcriptomics and proteomics
1161-APS	Transmitters
4095-ASIP	Transplantation
1065-APS	Transporters: ions, transmitters, nutrients, metabolites and drugs
2159-ASBMB	tRNA Synthetases: Structure, Mechanism and Evolution
4117-ASIP	Tumor angiogenesis
4111-ASIP	Tumor biology
4116-ASIP	Tumor immunology
4070-ASIP	Tumors - glial

4071-ASIP	Tumors -nonglial
7031-AAA	Vascular Biology
4124-ASIP	VASCULAR BIOLOGY AND PATHOLOGY
4145-ASIP	Vascular biology of eNOS
4143-ASIP	Vascular calcification
4141-ASIP	Vascular cell biology
4146-ASIP	Vascular disease and genetic disorders
1024-APS	Vascular pathobiology
3003-ASPET	Vascular Pharmacology-Cerebral
3004-ASPET	Vascular Pharmacology-Coronary
3002-ASPET	Vascular Pharmacology-General
3005-ASPET	Vascular Pharmacology-Pulmonary
4147-ASIP	Vascular signal transduction
1025-APS	Vascular smooth muscle
1218-APS	Vascular smooth muscle cell biology
4148-ASIP	Vascular smooth muscle cell biology
1005-APS	Vascular supply during aging (S.S. Segal)
4142-ASIP	Vascular tissue engineering
7011-AAA	Vasculogenesis/Angiogenesis/Arteriogenesis
4144-ASIP	Vasoactive molecules
3006-ASPET	Vasoactive Substances
4123-ASIP	Viral mechanisms of oncogenesis
5245-ASN	Vitamin A and carotenoids
5251-ASN	Vitamin A nutrition and metabolism
5252-ASN	Vitamin D metabolism
5253-ASN	Vitamin E nutrition and metabolism
5240-ASN	Vitamins and Minerals
5364-ASN	Vitamins, fat soluble
5366-ASN	Vitamins, water soluble
1227-APS	Water and electrolyte homeostasis
1150-APS	Water and electrolyte secretion
5246-ASN	Water soluble vitamins
7032-AAA	Wound Healing
5254-ASN	Zinc nutrition and metabolism

** AAA - "Teaching Innovations in Anatomy" is an AAA platform session. If you prefer to do a slide presentation, submit your abstract to "Teaching Innovations in Anatomy" (7009-AAA). If you prefer to have a poster presentation, submit to one of the EB teaching poster session.*

** ASPET - Abstracts submitted to this category may be eligible for presentation at the Drug Metabolism Platform Session*