

POSTER PRESENTATIONS

(alphabetically by Presenting Author's Last Name)

Presenting Author	Abstract Title	Category	Presentation Day	Poster No.	Travel Award
Aiman Abzhanova <i>The University of North Carolina at Chapel Hill</i>	Monitoring redox responses in human airway epithelial cells exposed to woodsmoke emissions generated in real time	Environmental Toxicology/Pharmacology	Thurs, Nov 17	062	
Olawale Ajuwon <i>Federal University Oye-Ekiti, Nigeria</i>	Fermented Rooibos Tea Ameliorates Sodium Fluoride-Induced Cardio-renal Injury, Oxidative Stress and Inflammation via Suppression of NF- κ B Signaling Pathway in Wistar rats	Environmental Toxicology/Pharmacology	Thurs, Nov 17	063	
May Al-Maghrebi <i>Kuwait University</i>	NOX-activated NLRP3 Inflammasome Pathway Triggers Pyroptosis During Testicular Ischemia Reperfusion Injury	Inflammation and Immunity	Thurs, Nov 17	022	
Rogério Aleixo Silva <i>University of São Paulo - Brazil</i>	LsfA, a 1-Cys Peroxiredoxin involved with Pseudomonas aeruginosa virulence: Structure, biochemical activity, and its influence in inflammation/resolution	Chemical Biology	Sat, Nov 19	207	
Amanda Allender <i>Villanova University</i>	Building a Better Nrf2 Activator: Targeting Keap1 Cysteine 151 with Electrophiles	Chemical Biology	Sat, Nov 19	208	
Ricardo Alva <i>Brock University</i>	Oxygen tension differentially affects gene expression in four cancer cell lines	Cancer	Sat, Nov 19	165	
Diana Averill-Bates <i>Université du Québec à Montréal</i>	The role of ROS and Nrf2 in the induction of a hormetic, adaptive stress response during mild heat shock at 40°C	Cancer	Sat, Nov 19	166	
Samrajni Banerjee <i>University of Liverpool</i>	Role of reactive oxygen species in declining mitochondrial structure and distribution in musculoskeletal tissues with ageing	Aging	Thurs, Nov 17	001	
Meltem Barlin <i>Washington University Medical School</i>	Nox4 regulates cancer cell plasticity influencing autophagy state of cells.	Cancer	Sat, Nov 19	167	
Silvina Bartesaghi <i>Universidad de la Republica - Uruguay</i>	Peroxynitrite-Mediated Oxidative Modifications of Nerve Growth Factor (NGF)	Chemical Biology	Sat, Nov 19	209	
Khaliunaa Bayanbold <i>The University of Iowa</i>	Ferritin Overexpression Limits Intracellular Labile Iron and Induces Replication Stress in Lung Cancer Cells	Cancer	Sat, Nov 19	168	
Margaret Bell <i>University of Alabama at Birmingham</i>	Revealing the relationships in gene expression and behavior in mice exposed to systemic modulation of the O-GlcNAcylation pathway	Metabolism/Bioenergetics	Fri, Nov 18	124	
Gloria Benavides <i>University of Alabama at Birmingham</i>	Evaluation of mitochondrial function in human brain tissue in conjunction with oxidative stress markers	Metabolism/Bioenergetics	Fri, Nov 18	125	

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Louise Bennett <i>Monash University</i>	Anxiolytic Effects of Essential Oils May Involve Redox Biology in the Brain	Chemical Biology	Sat, Nov 19	210	
Rachel Bentley <i>Queen's University</i>	The Role of Mitochondrial Subunits in the Opposing Oxygen Responses of the Ductus Arteriosus and Pulmonary Arteries	Cardiovascular and Pulmonary	Fri, Nov 18	077	
Brandon Berry <i>University of Washington</i>	Lifespan Extension from Dietary Restriction is Mediated by Mitochondrial Membrane Potential in <i>C. elegans</i>	Aging	Thurs, Nov 17	002	
Khushwant Singh Bhullar <i>University of Alberta - Canada</i>	GPR30 agonist peptide as ACE2 activator: A novel finding	Cardiovascular and Pulmonary	Fri, Nov 18	078	
Rebecca Bingham <i>Oregon State University</i>	Site-Specific Tyrosine Nitration of Heat Shock Protein 90 Plays Distinct Roles in Glioblastoma Multiforme	Cancer	Sat, Nov 19	169	
Andrew Bischer <i>University of Rochester Medical Center</i>	Internal ROS Generation Drives Foraging Decisions in <i>C. elegans</i>	Chemical Biology	Sat, Nov 19	211	
Bethany Bogan <i>Emory University</i>	The Role of Fatty Acid Synthase in Atherosclerosis	Cardiovascular and Pulmonary	Fri, Nov 18	079	
Jacob Brown <i>Oklahoma Medical Research Foundation</i>	The Role of Oxylipins in Muscle Atrophy	Aging	Thurs, Nov 17	003	
Lun Cai <i>Medical College of Georgia</i>	Heme regulation in BACH1 knockout mice with sepsis	Metabolism/Bioenergetics	Fri, Nov 18	126	
Nicolás Campolo <i>Universidad de la República</i>	Mechanisms of Oxidative Inactivation of Human Glutamine Synthetase	Chemical Biology	Sat, Nov 19	212	
David Caraballo <i>Florida International University</i>	Systemic effect of NF- κ B-mediated Signaling Pathway Induced by Mechanosensitive Ca ²⁺ -Channel TRPV4 in Pulmonary Endothelial Cells	Cardiovascular and Pulmonary	Fri, Nov 18	080	
Ana Clara Casella <i>Facultad de Medicina, Uruguay</i>	Impact of Oxygen Concentration on the Oxidative Cytotoxic Response of Macrophages	Inflammation and Immunity	Thurs, Nov 17	023	
Giselle Cerchiaro <i>Federal University of ABC - UFABC</i>	Effects of hydroxytyrosol in an induced Alzheimer's disease animal model: behavioral and metallomics profile	Neurodegenerative Disease	Thurs, Nov 17	042	

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Luksana Chaiswing <i>University of Kentucky</i>	Sensitization of Resistant Prostate Cancers to Radiation Through Mitochondrial Translation Targeting Coupled With Overloading Mitochondrial ROS	Cancer	Sat, Nov 19	170	
Rebecca Charles <i>Queen Mary University of London - UK</i>	A novel inhibitor of soluble Epoxide Hydrolase that adducts C521 is cardioprotective	Cardiovascular and Pulmonary	Fri, Nov 18	081	
Tilottama Chatterjee <i>Oregon State University</i>	Subpopulations of Nitrated Hsp90 Exhibit Distinct Patterns of Structure, Stability and Pathological Functions	Chemical Biology	Sat, Nov 19	213	
Andreia Chignalia <i>University of Arizona</i>	Novel mechanisms underlying heart failure induced by pressure overload	Cardiovascular and Pulmonary	Fri, Nov 18	082	
Marcie Cole <i>University of Louisville</i>	A Novel, Nitric Oxide-Releasing Elastomeric Chain for Antimicrobial Action	Chemical Biology	Sat, Nov 19	214	
Daniel Colon Hidalgo <i>University of Colorado</i>	Loss of vascular EC-SOD leads to worse RV hypertrophy and metabolic alterations in PH	Cardiovascular and Pulmonary	Fri, Nov 18	083	
Robbie Cross <i>University of Alabama at Birmingham</i>	Pilot Study on the Effect of Stress on Gut Microbial Metabolism in Black and White Undergraduate Students	Metabolism/Bioenergetics	Fri, Nov 18	127	
Litiele Cruz <i>University of São Paulo - Brazil</i>	Laminin is the main brominated protein by hypobromous acid and Peroxidase in the extracellular matrix	Chemical Biology	Sat, Nov 19	215	
Tiphany De Bessa <i>Heart Institute, University of Sao Paulo School of Medicine</i>	Protein Disulfide Isomerase-A1 (PDIA1) Remodels Endoplasmic Reticulum -Plasma Membrane Contact Sites: Possible Role of Nogo-B Protein Regulation.	Cancer	Sat, Nov 19	172	
Adely De la Pena <i>San Sebastian University</i>	Galectin-8 induces mitochondrial fission and redistribution to the perinuclear zone associated with epithelial–mesenchymal transition in MDCK cells	Chemical Biology	Sat, Nov 19	216	
Kaio de Souza Gomes <i>Federal University of ABC - UFABC</i>	Synergistic Effects Between Neolignans Derivatives and Copper II Improves In Vitro Anti-Breast Cancer Activity	Chemical Biology	Sat, Nov 19	217	
Veronica Demicheli <i>Universidad de la República, Uruguay</i>	Lysine acetylation in human MnSOD may protect from tyrosine-34 nitration and enzyme inactivation	Chemical Biology	Sat, Nov 19	218	
Evan DeVallance <i>West Virginia University</i>	Maternal Nano-Titanium Dioxide Inhalation Increases Xanthine Oxidoreductase Activity in the Dam and Offspring via a PKC- and G9a-Mediated Process	Cardiovascular and Pulmonary	Fri, Nov 18	084	

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Fabio Di Domenico <i>Sapienza University of Rome</i>	The harmful relationship between redox homeostasis and protein quality control systems in Alzheimer-like pathology	Neurodegenerative Disease	Thurs, Nov 17	044	
Sergey Dikalov <i>Vanderbilt University Medical Center</i>	Imbalance Between GCN5L1 Acetyltransferase and Sirt3 Deacetylase Promotes CypD Hyperacetylation, Mitochondrial Oxidative Stress, Endothelial Dysfunction and Hypertension	Cardiovascular and Pulmonary	Fri, Nov 18	085	
Eftekhar Eftekharpour <i>University of Manitoba</i>	Developmental Depletion of Neuronal Thioredoxin-1 is associated with expression of neurodegenerative markers and progressive Neurological deficits resulting in Sudden Epileptic Death.	Neurodegenerative Disease	Thurs, Nov 17	056	
Hanan Elajaili <i>University of Colorado</i>	Use of Electron Paramagnetic Resonance (EPR) in vivo to evaluate redox status in a preclinical model of acute lung injury	Cardiovascular and Pulmonary	Fri, Nov 18	088	
Amal Elhaw <i>University of Pittsburgh</i>	Orchestrated expression of the atypical Rho-GTPase, RHOV, in response to matrix detachment of ovarian cancer cells	Cancer	Sat, Nov 19	174	
Nuran Ercal <i>Missouri S&T</i>	Investigation of novel nanoplateforms for delivery of an anticataract drug in whole lens cultures	Chemical Biology	Sat, Nov 19	220	
Damián Estrada <i>Universidad de la República</i>	Innate immune modulation by phosphatidylserine exposure in <i>T. cruzi</i> during the acute phase of Chagas disease.	Inflammation and Immunity	Thurs, Nov 17	025	
Jolyn Fernandes <i>University of Oklahoma Health Sciences Center</i>	Metabolomic Analysis of Hyperoxia induced Lung Injury and Attenuation by Aurothioglucose	Cardiovascular and Pulmonary	Fri, Nov 18	089	
Francesca Ferrara <i>University of the Studies of Ferrara</i>	Ubiquitination as a key regulatory mechanism for O ₃ -induced cutaneous redox Inflammasome activation	Inflammation and Immunity	Thurs, Nov 17	026	
Chelsey Fontenot <i>Louisiana State University</i>	Nitric Oxide reversibly inhibits the redox transition of the [2Fe-2S] cluster in the mitochondrial outer membrane protein mitoNEET	Metabolism/Bioenergetics	Fri, Nov 18	128	
Asvi Arora Francois <i>Queen Mary, University of London</i>	Identification of Cardiac Proteins that Sense Oxidants by Intra-disulfide Formation	Cardiovascular and Pulmonary	Fri, Nov 18	090	
Norma Frizzell <i>University of South Carolina</i>	Impaired Metabolic and Inflammatory Responses in a Murine Model of Leigh Syndrome	Inflammation and Immunity	Thurs, Nov 17	027	
Sarah Fu <i>University of Alabama at Birmingham</i>	Elevated protein O-GlcNAcylation is associated with change of glucose metabolism enzyme levels and their link to nNOS in Alzheimer's disease postmortem brains	Neurodegenerative Disease	Thurs, Nov 17	045	

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Felipe Fuzita <i>University of São Paulo - Brazil</i>	A simple and direct approach for cysteine-based redox proteomics by differential isobaric labeling validated in human and rat aortic smooth muscle cells	Cardiovascular and Pulmonary	Fri, Nov 18	091	
Abhrajit Ganguly <i>University of Oklahoma Health Sciences Center</i>	Hyperoxic Injury in Human Primary Airway Epithelial Cell Is Associated with Changes in Hydrogen Sulfide Metabolism	Cardiovascular and Pulmonary	Fri, Nov 18	092	
Scott Gillham <i>Liverpool John Moores University</i>	The effects of cannabidiol on ROS signalling and cytokine/chemokine production in mature C2C12 myotubes	Inflammation and Immunity	Thurs, Nov 17	029	
Andrew Giromini <i>West Virginia University</i>	Does hepatocyte-specific knockout of xanthine dehydrogenase mediated prevention of hyperuricemia alter metabolic outcomes allied to obesity?	Metabolism/Bioenergetics	Fri, Nov 18	130	
Lucia Gonzalez Perilli <i>Universidad de la Republica - Uruguay</i>	Lipoxygenase-dependent lipid mediators formation in M1 and M2 macrophages	Inflammation and Immunity	Thurs, Nov 17	030	
Anna Guiotto <i>University of Ferrara</i>	Involvement Of Ferroptosis In Rett Syndrome	Neurodegenerative Disease	Thurs, Nov 17	046	
Thamir Hamoh <i>University of Groningen</i>	FNDs for the selective labelling and localized free radical measurements in sperm cells	Aging	Thurs, Nov 17	005	
Xiaoja He <i>Emory University</i>	Pulmonary inflammation and fibrotic signaling in mouse lungs chronically exposed to low-dose vanadium pentoxide	Environmental Toxicology/Pharmacology	Thurs, Nov 17	064	
Robert Heaton <i>the University of Liverpool</i>	Regulation of Peroxiredoxin Oxidation for the Maintenance of Muscle Mass and Function in Ageing	Aging	Thurs, Nov 17	006	
Katiana Hebbert <i>Kansas City University</i>	Targeting lipolysis in pancreatic cancer microenvironment induces lipid peroxidation and suppresses cancer cells growth.	Cancer	Sat, Nov 19	175	
Jason Held <i>Washington University</i>	GSTP1 silencing in breast cancer is a redox vulnerability that redirects the flux of cysteine oxidation in the proteome	Cancer	Sat, Nov 19	176	
David Heppner <i>The State University of New York at Buffalo</i>	Architecture of the NADPH oxidase family of enzymes	Chemical Biology	Sat, Nov 19	222	
Victor Hernandez Bahamondes <i>Universidad de Atacama</i>	Molecular Oxidation on Day and Night Shift High Altitude Workers.	Metabolism/Bioenergetics	Fri, Nov 18	132	

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Alexandria Hernandez-Nichols <i>University of Alabama at Birmingham</i>	Red Blood Cells Exposed To Redox Mediators Have Increased High Mannose N-Glycans Present On Their Surface	Inflammation and Immunity	Thurs, Nov 17	031	
Madeline Hines <i>The University of Iowa</i>	Preventing Lipid Peroxidation Stimulates Loss of Glutathione Reduction Potential Coincident with Increased Mitochondrial Staining in Articular Chondrocytes	Aging	Thurs, Nov 17	007	
Aki Hirayama <i>Tsukuba University of Technology</i>	Clinical Significance of Serum Multiple Radical Scavenging Activity Assay (MULTIS) in a Diagnostic Screening of Autism Spectrum Disorders	Neurodegenerative Disease	Thurs, Nov 17	047	
Annika Höhn <i>German Institute of Human Nutrition</i>	Islet function during aging and senescence	Aging	Thurs, Nov 17	008	
Claire Holden <i>Emory University</i>	The Role of Bile Acid Signaling in Differentiation of Vascular Smooth Muscle Cells	Cardiovascular and Pulmonary	Fri, Nov 18	094	
Blanka Holendova <i>Institute of Physiology, Czech Academy of Sciences</i>	NOX4 activity in mouse β -cells is important for the development of inflammation upon chronic overnutrition	Metabolism/Bioenergetics	Fri, Nov 18	133	
Robert Hondal <i>University of Vermont</i>	A Szeto-Schiller Peptide Containing 2-thioHistidine Has Enhanced Antioxidant Activity in vitro	Chemical Biology	Sat, Nov 19	223	
Fuminori Hyodo <i>Gifu University</i>	Comparison of redox alteration and cancer metabolism after radiation treatment of tumor using in vivo DNP-MRI and dissolution DNP-MRS	Cancer	Sat, Nov 19	177	
Hiroshi Ichikawa <i>Doshisha University</i>	Induction of oxidative stress tolerance by ultrasound irradiation extends the lifespan of <i>C. elegans</i>	Aging	Thurs, Nov 17	009	
Alex Inague <i>University of São Paulo - Brazil</i>	7-Dehydrocholesterol protects membrane phospholipids from oxidation	Chemical Biology	Sat, Nov 19	224	
Hironmu Ito <i>National Institutes for Quantum Science and Technology</i>	Adjunctive effects with continual X-ray irradiation for effective photodynamic therapy	Chemical Biology	Sat, Nov 19	225	
Martin Jaburek <i>Institute of Physiology, Czech Academy of Sciences</i>	Mitochondrial Redox Signaling Promotes GPR40 Agonist-Dependent Amplification of Insulin Secretion at Low Substimulating Glucose	Metabolism/Bioenergetics	Fri, Nov 18	134	
Zachery Jarrell <i>Emory University</i>	Dietary Phytochelatins and Their Impact on Selenium Reuptake	Metabolism/Bioenergetics	Fri, Nov 18	135	

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Petr Jezek <i>Institute of Physiology of the Czech Academy of Sciences, Prague</i>	Mitochondrial Redox Signaling during Fatty Acid-Stimulated Insulin Secretion	Metabolism/Bioenergetics	Fri, Nov 18	136	
Chang Jiang <i>H. Lee Moffitt Cancer Center and Research Institute</i>	Targeting Glutathione Reductase in KEAP1/NRF2 Mutant NSCLC	Cancer	Sat, Nov 19	179	
Samantha Jones <i>University of Liverpool</i>	MicroAge Mission: Human Muscle Constructs for Studies of Redox-Related Cytokine and Chemokine Release in Microgravity	Aging	Thurs, Nov 17	010	
Tetsuro Kamiya <i>Gifu Pharmaceutical University</i>	Potential Role of Exosomes and N-glycosylation in the Extracellular Secretion and Function of LOX Family Proteins in Human Breast Cancer MDA-MB-231 Cells	Cancer	Sat, Nov 19	180	
Nana Katsuta <i>Tokai University</i>	The evaluation of S-(2-succinyl)cysteine, a marker for mitochondrial dysfunction, in chronic kidney disease	Metabolism/Bioenergetics	Fri, Nov 18	138	
Oleh Khalimonchuk <i>University of Nebraska-Lincoln</i>	An ALS-linked mutation in the metallopeptidase Oma1 impinges on its activity and impairs mitochondrial fidelity	Metabolism/Bioenergetics	Fri, Nov 18	139	
Vitaly Koltover <i>Federal Research Center of Problems of Chemical Physics and</i>	Reliability of Electron-Transport Mitochondrial Membranes and the Oxygen Anion-Radical Timer of Aging	Aging	Thurs, Nov 17	012	
Sivareddy Kotla <i>The University Of Texas MD Anderson Cancer Center</i>	An ERK5-NRF2 axis mediates senescence-associated stemness and atherosclerosis	Cardiovascular and Pulmonary	Fri, Nov 18	095	
Adolf Koudelka <i>University of Pittsburgh</i>	Arachidonic acid-derived lipoxin A4 yields an electrophilic 15-oxo metabolite that induces anti-inflammatory responses independent of FPR2 receptor signaling	Inflammation and Immunity	Thurs, Nov 17	032	
Alicia Kowaltowski <i>Universidade de São Paulo</i>	Adiponectin Promotes Glucose-Sensitive Insulin Secretion and Prevents Beta-Cell Damage by Obesity	Metabolism/Bioenergetics	Fri, Nov 18	140	
Jennifer Krznarich <i>University of Minnesota Medical School</i>	The Glutamate-Cystine Antiporter xCT is Repressed by the Glucocorticoid Receptor	Environmental Toxicology/Pharmacology	Thurs, Nov 17	065	
KENSHIN KUROKAWA <i>Doshisha University</i>	UVB induces intracellular ROS production in HaCaT keratinocytes	Aging	Thurs, Nov 17	013	
Felix Lamontagne <i>CRCHUM - Université de Montréal - Canada</i>	DUOX2 regulates secreted factors in virus-infected respiratory epithelial cells that contribute to neutrophil attraction and activation	Inflammation and Immunity	Thurs, Nov 17	033	

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Jerome Lapointe <i>Agriculture and Agri-Food Canada</i>	Feeding high levels of zinc oxide to post-weaned piglets perturbs mitochondrial energy production, antioxidant defences and copper metabolism.	Metabolism/Bioenergetics	Fri, Nov 18	141	
Alexandra Latini <i>Universidade Federal de Santa Catarina</i>	Tetrahydrobiopterin metabolism is impaired in chemically-induced, idiopathic and genetic mitochondrial deficiencies	Metabolism/Bioenergetics	Fri, Nov 18	142	
Caitlin Lewis <i>University of Colorado</i>	Extracellular Superoxide Dismutase Affects Interstitial Macrophage Accumulation and Reprogramming During Pulmonary Hypertension	Cardiovascular and Pulmonary	Fri, Nov 18	097	
Haojian Li <i>National Institutes of Health</i>	CRISPR Metabolic Screen Identifies ATM and KEAP1 as Targetable Genetic Vulnerabilities in Solid Tumors	Cancer	Sat, Nov 19	182	
Linhui Li <i>University of California, Davis</i>	A New Paradigm in Inositol and Pulmonary Fibrogenesis	Metabolism/Bioenergetics	Fri, Nov 18	143	
Suryamin Liman <i>The University of Iowa</i>	Targeting Hemoproteins with Carbon Monoxide Prevents Hyperoxia-induced Cartilage Injury	Chemical Biology	Sat, Nov 19	227	
Taiming Liu <i>Loma Linda University</i>	Nitrite reverses nitroglycerin tolerance-Role of a nitro-dilator-activated intracellular NO store (NANOS) in vascular wall	Cardiovascular and Pulmonary	Fri, Nov 18	098	
Taiming Liu <i>Loma Linda University</i>	Artifacts introduced by sample handling in chemiluminescence assays of NO species	Chemical Biology	Sat, Nov 19	228	
Irshad Lone <i>Govt. Degree College Handwara (affiliated to the University of Kashmir,</i>	Chemopreventive effect of dietary aloin on diethylnitrosamine (DEN)/ferric nitrotriacetate (Fe-NTA) mediated hepatic carcinogenesis - delineation of its implicated mechanisms	Cancer	Sat, Nov 19	184	
Lucia Lopes <i>University of São Paulo</i>	Protein disulfide isomerase regulation of Nox1 contributes to vascular dysfunction in hypertension	Cardiovascular and Pulmonary	Fri, Nov 18	099	
Camilo Lopez <i>Pontificia Universidad Católica de Chile</i>	Role of Amino Acid Oxidation in the Peroxyl Radical Mediated Inactivation of Glucose-6-Phosphate Dehydrogenase and 6-Phosphogluconate Dehydrogenase: Two Key Enzymes of the Pentose Phosphate Pathway	Chemical Biology	Sat, Nov 19	230	
Camilo Lopez <i>Pontificia Universidad Católica de Chile</i>	Functional Changes of Glucose-6-Phosphate Dehydrogenase Induced by Peroxyl Radicals and Peroxynitrite: Oxidation of Specific Amino Acids and Relevance of Protein Unfolding	Chemical Biology	Sat, Nov 19	231	
Yongke Lu <i>Marshall University</i>	Peroxisomes contribute to the development of alcohol-related liver disease	Environmental Toxicology/Pharmacology	Thurs, Nov 17	067	

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Qing Lu <i>Center for Translational Science, Florida International University</i>	The anti-apoptotic protein, Survivin induces a shift in endothelial cell in carbon metabolism through a mitochondrial-ROS-dependent increase in HIF-1a signaling	Cardiovascular and Pulmonary	Fri, Nov 18	100	
Mijiti Maihemuti <i>Indiana University</i>	Cysteine 65 in Ref-1 is essential for Ref-1 redox function and transcriptional regulation in human PDAC cells	Cancer	Sat, Nov 19	185	
Santiago Mansilla <i>Universidad de la República - Uruguay</i>	Characterization of human mitochondrial aconitase and its interaction with frataxin	Metabolism/Bioenergetics	Fri, Nov 18	145	
Syed Masood <i>University of North Carolina at Chapel Hill</i>	Detecting Protein Sulfenylation in Human Airway Epithelial Cells (HAEC) Exposed to an Environmental Peroxides	Environmental Toxicology/Pharmacology	Thurs, Nov 17	069	
Raffaella Mastrocola <i>University of Turin, Italy</i>	Anti-inflammatory and anti-glycative properties of zinc-enriched spirulina in diet-induced obese/diabetic mice	Metabolism/Bioenergetics	Fri, Nov 18	146	
Beatriz Mateo-Victoriano <i>University of Miami</i>	Cellular 8-oxodGTPase activity as a novel target in KRAS-driven pancreatic cancer	Cancer	Sat, Nov 19	186	
Miranda Mathieson <i>Queens University</i>	Developing a Novel Approach to Assess Mitochondrial Bioenergetics in the Murine Optic Nerve	Metabolism/Bioenergetics	Fri, Nov 18	147	
Kohei Matsuda <i>Doshisha University</i>	Unknown modification of DJ-1 is increased in red blood cells from Unmedicated patients with Parkinson's disease	Neurodegenerative Disease	Thurs, Nov 17	048	
Ken-ichiro Matsumoto <i>National Institutes for Quantum Science and Technology</i>	Evaluation of redox responses of mouse colorectum tissue after X-ray irradiation	Chemical Biology	Sat, Nov 19	232	
Hideo Matsuzaki <i>University of Fukui</i>	Linoleic acid and linoleate diols in neonatal cord blood influence birth weight	Metabolism/Bioenergetics	Fri, Nov 18	148	
Joshua A. McDowell <i>University of Nebraska Medical Center</i>	The role of adipose tissue signaling in response to therapeutic radiation exposure	Cancer	Sat, Nov 19	187	
Marc Mendonca <i>Indiana University School of Medicine, IUPUI</i>	Radiation-induced Pancreatic Cancer Cell Killing by Simultaneous Inhibition of NF-kB and Warburg Metabolism	Cancer	Sat, Nov 19	188	
Elena Menshchikova <i>Federal Research Center for Basic and Translational Medicine</i>	Protective Effect Of Novel Phenolic Antioxidant TS-13 in Mouse Model of Parkinson's Disease	Neurodegenerative Disease	Thurs, Nov 17	049	

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Elena Menshchikova <i>Federal Research Center for Basic and Translational Medicine</i>	Antiproliferative Effect of Novel Phenolic Antioxidant TS-13 in vitro	Chemical Biology	Sat, Nov 19	234	
Ginger Milne <i>Vanderbilt University Medical Center</i>	A Bidirectional and Phase-Dependent Effect of Oxidative Stress on Colorectal Cancer: First Evidence in Humans	Cancer	Sat, Nov 19	190	
Edwin Miranda <i>University of Utah</i>	Muscle GLO1 is Attenuated with Obesity and Regulated by SIRT2 and NAMPT via NAD+	Metabolism/Bioenergetics	Fri, Nov 18	149	
Edwin Miranda <i>University of Utah</i>	Exploration of the Proteomic and Redox Consequences of NAMPT Inhibition or Knock Down in Human Immortalized Skeletal Muscle Cells	Aging	Thurs, Nov 17	014	
Matias Moller <i>Universidad de la Republica</i>	Hydrogen peroxide diffusion across human red blood cell membranes is not facilitated by aquaporins	Chemical Biology	Sat, Nov 19	235	
Daniel Moreira <i>University of Brasilia</i>	Redox Imbalance and Oxidative Eustress during Larval-Pupal Transition in a Holometabolous Insect	Chemical Biology	Sat, Nov 19	236	
Edward Moreira Bahnson <i>University of North Carolina at Chapel Hill</i>	Selective Delivery of Antioxidant Response Activating nanoParticles (ARAPas) Reduces Atherosclerotic Burden in LDL KO Mice	Cardiovascular and Pulmonary	Fri, Nov 18	102	
Allison Moreno Samayoa <i>University of Arizona</i>	Sulfur Restriction and N-Acetyl Cysteine Induces Cell Death in Breast Cancer	Cancer	Sat, Nov 19	191	
Katherine Morton <i>Duke University</i>	Utilizing S1QEL1.1 to determine the role of NADH:Ubiquinone oxidoreductase derived superoxide in dopaminergic neurodegeneration	Neurodegenerative Disease	Thurs, Nov 17	050	
Annika Mueller-Eigner <i>Research Institute for Farm Animal Biology (FBN)</i>	Optogenetic Increase in Mitochondrial Protonmotive Force Causes Increased Lifespan in C. elegans	Aging	Thurs, Nov 17	015	
Ryoji Nagai <i>Tokai University</i>	Detection of several AGEs for evaluation of oxidative stress and metabolic disorders in vivo	Metabolism/Bioenergetics	Fri, Nov 18	150	
Ikuo Nakanishi <i>National Institutes for Quantum Science and Technology</i>	pH Effect on the Kinetic Isotope Effect in the Hydrogen Transfer from Trolox to Water-Solubilized 2,2-Diphenyl-1-picrylhydrazyl Radical in Phosphate Buffer Solutions	Chemical Biology	Sat, Nov 19	237	
Thi-Tina Nguyen <i>University of Colorado Anschutz Medical Campus</i>	The Effect of SOD Mimetic Treatment on Interstitial Macrophage Accumulation in Chronic Hypoxic Pulmonary Hypertension	Cardiovascular and Pulmonary	Fri, Nov 18	103	

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Kyle Nguyen <i>Oregon State University</i>	Nitrated Hsp90 Supports Glioblastoma Multiforme Cell Survival by Maintaining P2X7 Receptor Activation	Cancer	Sat, Nov 19	193	
Marina Nogueira <i>Vanderbilt University Medical Center</i>	Interplay between lipid peroxidation and miRNA profiles in women	Chemical Biology	Sat, Nov 19	238	
Rebecca Oberley-Deegan <i>University of Nebraska Medical Center</i>	Redox Metabolism in the context of Radiation Damage in Fibroblast and Adipocytes	Cancer	Sat, Nov 19	194	
John Onukwufor <i>University of Rochester</i>	Ferroptosis induced mitochondrial dysfunction in Alzheimer's disease-like phenotype in <i>C. elegans</i>	Neurodegenerative Disease	Thurs, Nov 17	052	
John Onukwufor <i>University of Rochester</i>	Iron exacerbates site-specific amyloid beta thermal sensitivity in <i>C. elegans</i>	Neurodegenerative Disease	Thurs, Nov 17	053	
Xiaosen Ouyang <i>University of Alabama at Birmingham</i>	Cardiomyocyte ZKSCAN3 regulates cardiac adaption to pressure-overload induced hypertrophy	Cardiovascular and Pulmonary	Fri, Nov 18	104	
Xiaosen Ouyang <i>University of Alabama at Birmingham</i>	Role of ZKSCAN3 and redox signaling in bacterial lung infection	Cardiovascular and Pulmonary	Fri, Nov 18	105	
Andrew Paek <i>The University of Arizona</i>	Activation of p53 and FOXO Transcription Factors in Response to Oxidative Stress Occurs in Distinct Temporal Phases	Cancer	Sat, Nov 19	195	
Antonio Marcus Paes <i>Federal University of Maranhão - Brazil</i>	Resistance Training Reverts Skeletal Muscle Oxidative and Endoplasmic Reticulum Stresses Induced by Early Dietary Exposure to Added Sugars.	Metabolism/Bioenergetics	Fri, Nov 18	152	
Arianna Pasqui <i>University of Siena</i>	Mutations Specific Redox Regulation Pathway In Rett Syndrome By The Use Of Transcriptomics And Proteomics Approaches	Neurodegenerative Disease	Thurs, Nov 17	054	
Alessandra Pecorelli <i>North Carolina State University</i>	Loss of Scavenger Receptor B1 (SR-B1) in Brain of a Rett Syndrome Mouse Model	Metabolism/Bioenergetics	Fri, Nov 18	153	
Edward Pennington <i>Oak Ridge Science Institute for Science and Education</i>	Real Time Adaptations of Human Airway Epithelial Cells Exposed to the Environmental Peroxide Isoprene Hydroxy Hydroperoxide	Environmental Toxicology/Pharmacology	Thurs, Nov 17	070	
Shazib Pervaiz <i>National University of Singapore</i>	mTORC2 mediated ROS-induced Activation of Akt Selectively Targets Mutant KRAS Addicted Cancers	Cancer	Sat, Nov 19	196	



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Presenting Author	Abstract Title	Category	Presentation Day	Poster No.	Travel Award
Le Gia Cat Pham <i>Albany Medical College</i>	Investigating the role of cytoglobin in regulating fibroblast function during vascular remodeling	Cardiovascular and Pulmonary	Fri, Nov 18	106	
Claudia Pizarro-Rosas <i>Universidad de Atacama</i>	The Use of Blueberry Extract to Prevent Oxidative Damage Produced by Acute Mountain Disease in Workers at High Geographical Altitude	Aging	Thurs, Nov 17	016	
Marissa Pokharel <i>Florida International University</i>	NAMPT induces Mitochondrial and Barrier Dysfunction in Pulmonary Endothelial Cells	Cardiovascular and Pulmonary	Fri, Nov 18	107	
Manuela Pose <i>Universidad de la Republica - Uruguay</i>	Selective Hydrogen Sulfide Fluorescent Detection in Biochemical Systems through Excimer Formation	Chemical Biology	Sat, Nov 19	240	
Pavla Pruchova <i>Institute of Physiology Czech Academy of Sciences</i>	Redox-Sensitive Mitochondrial Phospholipase A2? Participates in Oxidant-Stimulated and Norepinephrine-Stimulated UCP1-Dependent Thermogenesis	Metabolism/Bioenergetics	Fri, Nov 18	154	
Casey Pulliam <i>The University of Iowa</i>	Pharmacological Ascorbate (P-Asch-) Combined with SOD mimetic GC4711 Induces Radio-chemo-sensitization via Fe- and H2O2-dependent Mechanisms in Human Non-Small Cell Lung Cancer (NSCLC)	Cancer	Sat, Nov 19	198	
Raphael Queiroz <i>Universidade Estadual do Sudoeste da Bahia</i>	A novel diselenide attenuates the carrageenan-induced inflammation in mice by inhibiting neutrophil chemotaxis	Inflammation and Immunity	Thurs, Nov 17	035	
Irfan Rahman <i>University of Rochester</i>	E-Cigarette Synthetic Cooling Agent WS-23 and Nicotine Aerosols Differentially Modulate ROS generation and Airway Epithelial Cell Toxicity Responses	Environmental Toxicology/Pharmacology	Thurs, Nov 17	071	
Abinayaa Rajkumar <i>University of Madras</i>	Understanding The HDL Proteome Differences Between CVD And Non-CVD Prone Populations	Cardiovascular and Pulmonary	Fri, Nov 18	108	
Dario Ramirez <i>Laboratory of Experimental and Translational Medicine - National</i>	The nitron 5,5-dimethyl-1-pyrroline N-oxide improves adipogenesis and reduces insulin resistance in obese mice	Inflammation and Immunity	Thurs, Nov 17	024	
Dario Ramirez <i>Laboratory of Experimental and Translational Medicine - National</i>	In silico analysis of nitrones with possible Nrf2 agonist activities	Inflammation and Immunity	Thurs, Nov 17	028	
Dario Ramirez <i>Laboratory of Experimental and Translational Medicine - National</i>	Intracerebroventricular injection of aggregated beta-amyloid (1-42) modifies the daily temporal organization of cognitive performance and antioxidant enzymes in the temporal cortex of the rat	Neurodegenerative Disease	Thurs, Nov 17	051	
Dario Ramirez <i>Laboratory of Experimental and Translational Medicine - National</i>	Marmesin and marmelosin interact with the heparan sulfatase-2 active site: Potential mechanism for the antitumor effect of phytochemicals from bael fruit	Cancer	Sat, Nov 19	200	

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Yadira Ramirez Rodríguez <i>Instituto Potosino de Investigación Científica y Tecnológica A.C.</i>	Vasoactive effects associated with calcium channel blockade through a pitaya juice concentrate (<i>Stenocereus huastecorum</i>): Identification of compounds bioactive.	Chemical Biology	Sat, Nov 19	242	
Luiz Ramos <i>University of São Paulo</i>	Triplet carbonyls generated by peroxynitrite-treated Schiff base: a model study	Chemical Biology	Sat, Nov 19	243	
Daniela Ramos Truzzi <i>University of Sao Paulo</i>	The influence of non-thiol biomolecules on dinitrosyl iron complex (DNIC) formation	Chemical Biology	Sat, Nov 19	244	
Sherif Rashad <i>Tohoku University</i>	Codon usage and mRNA stability are translational determinants of cellular response to canonical ferroptosis inducers	Cancer	Sat, Nov 19	199	
Aníbal M. Reyes <i>Universidad de la Republica - Uruguay</i>	Human peroxiredoxin 3 is rapidly oxidized and hyperoxidized by lipid hydroperoxides	Chemical Biology	Sat, Nov 19	245	
Karina Ricart <i>University of Alabama at Birmingham</i>	Does the Oral microbiome modulate nitric oxide signaling and BPD risk in premature infants?	Cardiovascular and Pulmonary	Fri, Nov 18	109	
Nathália Rocco Machado <i>National Institutes of Health</i>	Activation of Ca ²⁺ /Calmodulin Dependent Kinase II (CaMKII) by Oxidation	Chemical Biology	Sat, Nov 19	246	
Yesica María Rodríguez Cortés <i>Universidad Nacional Autónoma de México - Mexico</i>	Silymarin improves post-cerebral ischemia survival and increases BDNF levels in obese mice	Inflammation and Immunity	Thurs, Nov 17	037	
Melinda R Rydberg <i>Oregon State University</i>	Role of Nitrated Proteins in Triple Negative Breast Cancer Survival/Proliferation and Migration	Cancer	Sat, Nov 19	201	
Katrin Schroeder <i>Goethe University</i>	NoxO1 and Erbin- a cooperation to control EGFR-signaling ?	Cancer	Sat, Nov 19	203	
Lucia Seale <i>University of Hawaii</i>	Ferroptosis in the brown adipose tissue of mice lacking selenocysteine lyase	Metabolism/Bioenergetics	Fri, Nov 18	155	
Madison Seman <i>West Virginia University</i>	Maternal Inhalation of Electronic Cigarette Vapor Increases XOR Activity in the Dam and Her Offspring	Cardiovascular and Pulmonary	Fri, Nov 18	111	

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Presenting Author	Abstract Title	Category	Presentation Day	Poster No.	Travel Award
Vlad Serbulea <i>University of Virginia</i>	Augmentation of Smooth Muscle Aerobic Glycolysis Rescues Atherosclerosis-associated Mortality in Mice	Metabolism/Bioenergetics	Fri, Nov 18	156	
Abhishek Shastri <i>Queen's University - Canada</i>	Mitochondrial DNA-Dependent Changes in Lipid Flux and Oxidative Stress in Skeletal Muscle	Metabolism/Bioenergetics	Fri, Nov 18	157	
Laura Sherlock <i>University of Colorado</i>	Neonatal selenium deficiency decreases selenoproteins in the lung and impairs pulmonary alveolar development	Cardiovascular and Pulmonary	Fri, Nov 18	112	
Navaneeth Shibu <i>University of Alabama at Birmingham</i>	N-Acetyl Cysteine Administration Impairs EKG Signals in the Humanized Reductive Stress Mouse	Cardiovascular and Pulmonary	Fri, Nov 18	113	
Mekhla Singhania <i>The University of Iowa</i>	Investigating the Role of Hydrogen Peroxide and Fe in Pharmacological Ascorbate induced Chemo-Radio-sensitization in Lung Cancer	Cancer	Sat, Nov 19	204	
Matthew Ryan Smith <i>Emory University</i>	The Role of Aconitase Dysregulation in Group 3 Pulmonary Hypertension.	Cardiovascular and Pulmonary	Fri, Nov 18	114	
Ibukunoluwa Sodiya <i>Villanova University</i>	Quantitating Nrf2-regulated cytoprotective proteins using an LC-MS/MS data-independent acquisition method	Chemical Biology	Sat, Nov 19	248	
Ruthia Soh <i>University of California Riverside</i>	Hyperglycemia Induced Oxidative Stress Alters the FOXO/AMPK Pathway Which Leads to Loss of Pluripotency	Aging	Thurs, Nov 17	017	
Pradoldej Sompol <i>University of Kentucky</i>	Oxidative stress-associated cerebrovascular pathology in Alzheimer's disease	Neurodegenerative Disease	Thurs, Nov 17	057	
Caroline Amy Staunton <i>University of Liverpool</i>	Aquaporins: regulators of H ₂ O ₂ transport and homeostasis in skeletal muscle	Aging	Thurs, Nov 17	018	
Hikari Sugawa <i>Tokai University</i>	Elucidation Of The Pathway For CML Formation From Ribose	Chemical Biology	Sat, Nov 19	250	
Xutong Sun <i>Center for Translational Science and Department of Environmental Health</i>	Mitochondrial redistribution of eNOS is regulated by CHIP mediated disruption of Dimerization	Cardiovascular and Pulmonary	Fri, Nov 18	115	
Sini Sunny <i>University of Alabama at Birmingham</i>	Chronic Reductive Stress Modifies Ribosomal Proteins in Nrf2 Transgenic Mouse Hearts	Cardiovascular and Pulmonary	Fri, Nov 18	116	

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Ildiko Szanto <i>Geneva University Hospitals</i>	The NADPH oxidase NOX4 and the transcription factor STAT6 as two key regulators of peripheral fat distribution in diet-induced obesity	Metabolism/Bioenergetics	Fri, Nov 18	158	
Yuxiao Tang <i>second military medical university</i>	An iron-deficient diet prevents alcohol- or diethylnitrosamine-induced acute hepatotoxicity in mice by inhibiting ferroptosis	Environmental Toxicology/Pharmacology	Thurs, Nov 17	072	
Priscilla Tang <i>University of Pittsburgh</i>	SIRT3 supports anchorage-independent survival of ovarian cancer cells by regulating mitochondrial redox signaling	Cancer	Sat, Nov 19	205	
Andrew Tennyson <i>Clemson University</i>	A catalase mimic with unparalleled activity, stability, and selectivity	Chemical Biology	Sat, Nov 19	251	
Max Thorwald <i>University of Southern California</i>	ApoE4 is associated with lower antioxidant levels and increased oxidative damage in human and mouse brain	Neurodegenerative Disease	Thurs, Nov 17	058	
Changhai Tian <i>University of Kentucky</i>	Cardiac-derived extracellular vesicles contribute to sympathetic excitation by disrupting the central redox homeostasis in heart failure	Cardiovascular and Pulmonary	Fri, Nov 18	117	
Antonella Tramutola <i>Sapienza University of Rome</i>	Intranasal Insulin Administration Reduces Oxidative Stress-Induced Damage And Improves Mitochondrial Bioenergetics In Alzheimer Disease	Neurodegenerative Disease	Thurs, Nov 17	059	
Andres Trostchansky <i>Facultad de Medicina, Universidad de la República</i>	Molecular mechanism of Prostaglandin endoperoxide H synthase 2 (PGHS2) inhibition by Nitroarachidonic acid	Inflammation and Immunity	Thurs, Nov 17	038	
Jose Trujillo Hernandez <i>National Institutes of Health</i>	Deciphering the mechanism for resistance to oxidative stress of a mouse lacking methionine sulfoxide reductases.	Chemical Biology	Sat, Nov 19	252	
Jose Pablo Vazquez-Medina <i>University of California, Berkeley</i>	Peroxiredoxin 6 suppresses ferroptosis in lung endothelial cells	Cardiovascular and Pulmonary	Fri, Nov 18	118	
Murugesan Velayutham <i>West Virginia University</i>	Systemic Redox Imbalance in COVID-19 Pathophysiology	Environmental Toxicology/Pharmacology	Thurs, Nov 17	073	
Monica Vidal-Franco <i>Oregon State University</i>	Establishing Nitrated Hsp90 Cellular Interactome	Chemical Biology	Sat, Nov 19	253	
Jazmine Virzi <i>University of South Florida</i>	Use of urinary DNA adductomics to dissect the substrates and pathways of DNA repair	Environmental Toxicology/Pharmacology	Thurs, Nov 17	074	

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Peter Vitiello <i>University of Oklahoma Health Sciences Center</i>	Decreased mitochondrial respiration in cardiac fibers isolated from a mouse model of Friedreich's ataxia	Cardiovascular and Pulmonary	Fri, Nov 18	120	
Dario Vitturi <i>University of Alabama at Birmingham</i>	Redox Modulation by Tryptophan Metabolism: Role of Kynurenine-derived Electrophiles	Chemical Biology	Sat, Nov 19	255	
Anezka Vodickova <i>University of Rochester</i>	Mitochondrial energy state impacts foraging behavior in <i>C. elegans</i>	Metabolism/Bioenergetics	Fri, Nov 18	160	
Daniela Weber <i>German Institute of Human Nutrition (DIFE) Potsdam-Rehbruecke</i>	Evaluation of different carotenoid assessment methods in a human study	Aging	Thurs, Nov 17	019	
Mia Wilkinson <i>Queen's University / Kingston - Canada</i>	Nuclear-Mitochondrial DNA Mismatch Induces Tissue-Specific Gene Expression Profiles: Transcriptomic Analysis of Subcutaneous and Visceral White Adipose Tissues in Mice	Metabolism/Bioenergetics	Fri, Nov 18	162	
Xena Williams <i>West Virginia University</i>	Xanthine Oxidase Contributes to Diminished Vascular Function Mediated by Inhalation of Nano-TiO ₂	Chemical Biology	Sat, Nov 19	256	
Yakov Woldman <i>Valdosta State University</i>	Quantitation of Reactive Species in Cellular Systems	Chemical Biology	Sat, Nov 19	257	
James Woodcock <i>Medical College of Wisconsin</i>	Significance of alternative reductases in the biosynthesis of tetrahydrobiopterin revealed by studies knocking out sepiapterin reductase in human cells	Neurodegenerative Disease	Thurs, Nov 17	060	
Jialin Wu <i>Florida International University</i>	S1PR3 Plays a Key Role in Ventilator-induced Lung Injury: Promoter Activation, Barrier Disruption, and Therapeutic Evaluation	Cardiovascular and Pulmonary	Fri, Nov 18	121	
Dianna Xing <i>University of Alabama at Birmingham</i>	Mitochondrial Metabolism Protects Against Rotenone-Induced Complex I Inhibition	Metabolism/Bioenergetics	Fri, Nov 18	163	
Libin Xu <i>University of Washington</i>	Differential contributions of distinct free radical peroxidation mechanisms to the induction of ferroptosis	Chemical Biology	Sat, Nov 19	258	
Jongtae Yang <i>Thermo Fisher Scientific</i>	MitoSOX Green for Visualizing Superoxide in Mitochondria	Chemical Biology	Sat, Nov 19	259	
Hongwei Yao <i>Brown University</i>	Fatty acid synthesis during postnatal lung development and injury in mice	Cardiovascular and Pulmonary	Fri, Nov 18	122	



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Manivannan Yegambaram <i>Florida International University</i>	Mitochondrial Hyperfusion Disrupts Carbohydrate Metabolism In Lung Endothelial Cells By Modifying The Activities Of Electron Transport Chain Complexes I And III	Metabolism/Bioenergetics	Fri, Nov 18	164	
Mohamed Yousef <i>The American University in Cairo</i>	Selective inhibition of GSK3 β mediates an Nrf2-independent anti-inflammatory microglial response	Inflammation and Immunity	Thurs, Nov 17	039	
Hua Zhong <i>University of Oklahoma Health Sciences Center</i>	Meconium from Neonates as a Source of In-Utero Metal Exposures	Environmental Toxicology/Pharmacology	Thurs, Nov 17	075	
Yuan Zhou <i>Tohoku University</i>	Neuronal sensitivity to oxidative stress is epitranscriptionally programmed	Neurodegenerative Disease	Thurs, Nov 17	061	
Ester Zito <i>Mario Negri Institute of pharmacological science</i>	ERO1 alpha deficiency impairs angiogenesis by increasing N-glycosylation of a proangiogenic VEGFA	Cancer	Sat, Nov 19	206	
Nicole zur Nieden <i>University of California Riverside</i>	The Oxidative Stress Protector FOXO Governs Skeletal Deformities and Osteogenic Differentiation in Response to Prenatal Snus Exposure	Environmental Toxicology/Pharmacology	Thurs, Nov 17	076	