Meet Our 2015 Undergraduate Researchers

Graduation Year (anticipated)

<table>
<thead>
<tr>
<th>Year</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>2014</td>
<td>6%</td>
</tr>
<tr>
<td>2015</td>
<td>45%</td>
</tr>
<tr>
<td>2016</td>
<td>34%</td>
</tr>
<tr>
<td>2017</td>
<td>14%</td>
</tr>
<tr>
<td>2018</td>
<td>1%</td>
</tr>
</tbody>
</table>

Type of Institution

- 49% US Doctoral/Research Universities-Extensive
- 6% US Doctoral/Research Universities-Intensive
- 18% US Master's Colleges & Universities
- 16% US Baccalaureate Colleges-Liberal Arts/General
- 11% International Universities

Research Focus

- 14% Cardiovascular
- 21% Cell & Molecular
- 13% Central Nervous System
- 1% Comparative & Evolutionary
- 10% Endocrinology & Metabolism
- 9% Environmental & Exercise
- 5% Gastrointestinal & Liver
- 9% Neural Control/Autonom. Regul.
- 6% Renal
- 2% Respiration
- 2% Water & Electrolyte Homeostasis
- 7% Anatomy
- 2% Stem Cells/Regenerative Medicine

Majors

- Biology (animal science, life sciences/physiology/nutrition)
- Health Sciences/Medicine
- Biochemistry/Chemistry
- Bioengineering
- Neuroscience/Psychology
- Exercise Science/Kinesiology
- Cell/Molecular Biology
- Other Science

Future Plans

- 34% Graduate School only
- 44% Medical School only
- 7% Graduate & Medical School
- 12% Other Professional School
- 2% Other Prof. & Grad. or Med.
- 1% Not continuing

Years of Research Experience

- 41% 0.5-2 years
- 32% 2-3 years
- 15% 3-4 years
- 7% 4-5 years
- 4% >5 years

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2015 APS Undergraduate Poster Session and David S. Bruce Award for Excellence in Undergraduate Research Reception

Recognizing the Undergraduate Researcher

Guest Society
American Association of Anatomists (AAA)

Experimental Biology 2015
Sunday, March 29, 2015
Boston Convention Center, Boston, MA
David S. Bruce

David S. Bruce (1939 - 2000) served as Chair of the APS Teaching Section and as a professor of physiology at Wheaton College from 1978-2000. Dr. Bruce was a dedicated physiology educator who played active roles in both the APS and the Society for Integrative & Comparative Biology. As an undergraduate educator at Wheaton College, Dr. Bruce had a particular interest in engaging undergraduate students in scientific research.

Dr. Bruce not only encouraged and supported his students in participating in research, but he also regularly brought undergraduate students to the Experimental Biology meeting, often to present their research findings. In 2000, Dr. Bruce died at the age of 61 of complications following a kidney transplant. This award honors Dr. Bruce’s commitment to promoting undergraduate involvement in research, in the APS annual meeting, and, ultimately, in research careers.

APS Congratulates the 2015 Bruce Outstanding Abstract Awardees

Jenae Brown, Alma College
Mark T. Cadena, University of Wisconsin, Madison
Akhil Chandra, George Washington University
Daniel P. Chantigian, Mayo Clinic
Andrielle Cowl, University of Minnesota
Gabrielle Dillon, Drake University
Charles T. Ganger, University of Iowa
Taylor Glausen, Le Moyne College
Slavina B. Goleva, University of Kentucky
Shreya N. Kashyap, Tulane University
Nabihah Khan, Benedictine University
Genevieve Kecskösi, University of Dayton
Angela Le, Le Moyne College
Debbby Lee, University of California, Merced
Brittney A. McCormick, University of Arizona
Edouard Niyonsaba, University of Central Arkansas
Kashif Osmani, University of Illinois, Chicago
Mackenzie Powell, University of Evansville
Shahana Prakash, University of Cincinnati
Anthony Sainz, University of Utah
Utkarshna Sinha, University of Toronto
Noah T. Smith, Messiah College
Phi T. Trac, Emory University
Andrew B. Tucker, Pennsylvania State University
Robert J. Vanderkamp, Michigan State University
Amrit K. Vasdev, Mayo Clinic
Maria A. Vicent Allende, Williams College
Paige K. Wakefield, University of Alberta
Travis Wakeham, Michigan Technological University
Ryan Wang, University of Mantoba

Support for the Bruce Awards

is provided by
APS, Association of Chairs of Departments of Physiology, and APS Members:
Barbara A. Horwitz, John M. Horowitz, Ida Llewellyn-Smith, and Thomas & Beth Pressley

APS Thanks the Exhibitors of the 2015 Undergraduate Poster Session

University of Alabama at Birmingham
Graduate and Biomedical Science (PhD) and Medical Scientist (MD/PhD) Training Programs
Department of Cell, Developmental & Integrative Biology

University of California, Davis
Molecular, Cellular, and Integrative Physiology Graduate Program

Georgia Institute of Technology
School of Applied Physiology, College of Sciences

Georgia Regents University
The Graduate School

Kent State University & Northeast Ohio Medical University
School of Biomedical Sciences

Mayo Graduate School
Biomedical Engineering & Physiology

Medical College of Wisconsin
Department of Physiology

Meharry Medical College
Physiology Program

University of Michigan
Molecular & Integrative Physiology

Michigan State University
Department of Physiology

University of Minnesota
Graduate Program in Integrative Biology & Physiology

University of Missouri
Department of Biomedical Sciences

Saint Louis University School of Medicine
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APS encourages you to learn more and to sign up as either a mentor or a protégé. ([the-aps.org/mentornet])

You can view the YouTube video (by scanning the code below) to see how the program works:
2015 APS Undergraduate Presenters

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The American Physiological Society (APS)

is a proud partner of the award-winning mentoring program, MentorNet

About MentorNet

• MentorNet’s mission is to foster a prevalent culture of mentoring in STEM that empowers individuals to persist and succeed in their fields.

• A social network for mentoring open to any STEM student in the U.S. STEM students are mentored by professionals working in STEM fields.

• The premiere and most experienced web-based e-mentoring program in the world.

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Scan to watch how MentorNet works.

1-Ahmad, Mohammed
Stony Brook University
Differential Effects of Systemic versus Intratracheal Lipopolysaccharide (LPS) Administration on Ventilatory Behavior in Spontaneously Breathing Adult C57BL/6 Male Mice

2-Alrubaiee, Mustafa
Howard University
Does Serca2a Mediate the Alcohol Effects on the Heart

3-Angelakos, Kailyn
Oakland University
Effects of Sodium Loading Plus Walking on Bone Mineral Content (BMC)

4-Arguello, Alexandra
University of Evansville
Dynamin-2 is a Negative Regulator of NOS1β in the Collecting Duct

5-Barbero, Margaret
University of Illinois at Urbana Champaign
Mesenchymal Stem Cell Survival after Intraspinal Transplantation

6-Bitner, Benjamin
Brigham Young University
Expression of Cdk5r1 and Not Cdk5r Induces Primary β-cell Proliferation

7-Bourdages, George
University of Pittsburgh
Feedforward Mechanisms Adjust Cerebral Blood Flow During Anticipated Postural Changes

8-Brown, Jenae
Alma College
The Effect of Hypoxia on Aging Diaphragm Muscle Following Life-Long Satellite Cell Ablation

9-Brown, Jaylyn
Indiana State University
The Cardiovascular System for Fourth Graders: Heart Rate and Physical Activity During PhUn Week

10-Cadena, Mark
University of Wisconsin-Madison
The Inhibitory G-protein, Gz, Accelerates the Progression of Insulitis and Hyperglycemia in a Type 1 Diabetes Mouse Model

11-Carey, Morgan
Albion College
Soluble Junctional Adhesion Molecule-B Inhibits Angiogenesis In Vitro

12-Chandler, Andrew
Azusa Pacific University
Comparative Structural Biology of Human and Opossum AT1Rs Reveals Different ARB Binding Sites

13-Chandra, Akhil
George Washington University
The Adverse Effects of Bisphenol A on Cardiac Mechanical Function

14-Chantigian, Daniel
University of Wisconsin-Madison
Effect of Carotid Body Chemoceptor Inhibition on Cardiac Baroreflex Sensitivity in Resting Humans

15-Chen, Yi
University of Maryland
Conditional Knockout of the Androgen Receptor in Ovarian Theca Cells Reveals Altered Steroidogenesis in Aged Mice

16-Chen, Michael
University of Alberta
The Role of MiR-21 in Right Ventricular Remodeling Secondary to Pulmonary Arterial Pressure Overload

17-Conyers, Jonathan
Stony Brook University
Intratracheal Lipopolysaccharide (LPS) Administration Attenuates Acute Hypoxic Ventilatory Response (HVR) in Spontaneously Breathing Adult C57BL/6 Male Mice

18-Cowl, Andrielle
Mayo Clinic
Graded Venous Occlusion of the Lower Limbs Contributes to the Exercise Pressor Response in Healthy Humans

19-Crumley, Ben
Missouri Western State University
Effects of Probiotic VSL#3 on Cytokine and Tight Junction Protein Expression in Intestinal Epithelial Cells

20-Davenport, Christine
Winthrop University
Effects of Quercetin on Muscle Function during IL-6-induced Cancer Cachexia

21-Dillon, Gabrielle
Drake University
Forced, but Not Voluntary Exercise Attenuates Age-associated Reductions in Maximal Muscle Force in Mice

22-Drake, Ty
Drake University
Forced, but Not Voluntary Exercise Attenuates Age-associated Reductions in Maximal Muscle Force in Mice

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2015 APS Undergraduate Presenters

23-Early, Amy
Wheaton College
Effect of Macronutrient Ingestion on Flow-Mediated Dilation: A Meta-Regression Analysis

24-Elder, Anna
Wheaton College
The Efficacy of a Minimal Dose of Aerobic Exercise or Soluble Fiber for Lowering Postprandial Blood Glucose Response

25-Galvez Salazar, Gabriela
Universidad de las Americas
Effects of Triptolide on the Expression of Inflammatory Markers in Lipopolysaccharide-Treated Human Endothelial Cells (HUVEC)

26-Ganger IV, Charles
University of Iowa
Relationship between Exercise Capacity and Rapid Vasodilator Responses to Single Skeletal Muscle Contractions in Young and Older Adults

27-Gao, Lucy
Johns Hopkins University
ADDF/COF Have Different Effects on Intestinal Brush Border Structure and NHE3 Activity

28-George, Alvin
University of Illinois at Chicago
Chenodeoxycholate (CDCA) Activation of Ca2+, Dependent Cl- Transport in Human Embryonic Kidney-293 Cells (HEK-293) is CFTR-Independent

29-George, Hannah
University of North Florida
Neurogenic Atrophy-Induced Nicotinic Acetylcholine Receptor t to y Subunit Switching is Impaired in Muscle RING Finger 1 (MuRF1) Null Mice

30-Glausen, Taylor
Le Moyne College
Confronting the Effects of 0.9% Saline Administration on Breathing

31-Glean, Angela
Kansas State University
Effects of Nitrite Infusion on Exercising Skeletal Muscle Vascular Control in Chronic Heart Failure Rats

32-Goleva, Slavina
University of Kentucky
Renal Specific Upregulation of Mitochondrial Genes in a Translational Primate Model of Spontaneous Hypertension

33-Gonzalez, Gwendolyn
University of California, Riverside
Perinatal Exposure to Brominated Flame Retardants Reduces Social Recognition Ability in Adult Male Mice

34-Goodrich, Rebekah
University of Utah
Cross-talk Between Autophagy and Mitophagy Regulates Shear-induced Nitric Oxide Production in Endothelial Cells

35-Goodrich, Rebekah
University of Utah
Shear-Induced Extracellular Regulated Kinase Signaling to eNOS is Increased When Autophagy is Compromised in Endothelial Cells

36-Gustafson, Callie
Mayo Clinic
Association of Markers of Intravascular Cellular Interaction with Carotid Intima Media Thickness in Postmenopausal Women

37-Gutierrez, Roberto
University of California, Riverside
Developmental Exposure to Indoor Flame Retardants Disrupts Sympathetic and Hypothalamic-Pituitary-Adrenal (HPA) Axis Activity in Osmotic Challenged Rats

38-Harris, Regine
North Carolina A&T State University
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39-Hildenbrand, Jordan
University of Kansas
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40-Hyder, Muzammil
Stony Brook University
Time Course of Altered Ventilatory Activity Evoked by Systemic Lipopolysaccharide (LPS) Administration in Spontaneously Breathing Adult C57BL/6 Male Mice

41-Javadova, Leyla
University of Puerto Rico - Rio Piedras Campus
Acetylation of Mitochondrial Proteins in the Heart And Skeletal Muscle of Aged Rats

42-Jones, Aarin
Purdue University
Epigenetic Regulation of Pgc1a Splice Variants in Response to Dietary Quercetin Supplementation

43-Macdonald, Alaina
University of Guelph
Characterization of Neural Stem/Progenitor Cells in the Brain of the Leopard Gecko (Eublepharis macularius)

44-Mackinnon, Chelsea
McMaster University
The Effect of Image Quality on Anatomy Learning

45-Muldoon, Jessica
Indiana University School of Medicine
Identification of a Resilient Population of Axotomized Motoneurons Within the Mouse Facial Motor Nucleus

46-Onyiuke, Francisca
Lehigh University
Identification of Putative Co-receptors for Neuropilin2a

47-Roell, Julia
DePauw University
Corneal Injury and Repair in the Zebrafish

48-Rothchild, Greg
Indiana University-Purdue University Indianapolis
Identification of Putative Co-receptors for Neuropilin2a

49-Jorgensen, Adam
Indiana University School of Medicine
Mechanical Effects of Fine-Wire Climbing on the Hindlimb Skeleton of Mice

50-Joll, Jeffery
Indiana University School of Medicine
The Relationship between the Foramen Spinosum and the Sphenoidal Emissary Foramen: Implications for Headache and Epistaxis

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2015 AAA Undergraduate Presenters

130-Burchianti, Livia
Santa Clara University
Medical Sciences Illustrations, CT scans and Pictures of Anatomical Dissections in a 3D Atlas of the Human Hand

131-Cyrus, Leah
West Liberty University
Bilateral Asymmetry of the Foramen Ovalis: Neurosurgical Implications

132-Dudgeon, Sarah
University of Michigan
LabLink: Journaling via Multimedia in Anatomical Dissections

133-Joll, Jeffery
Indiana University School of Medicine
Mechanical Effects of Fine-Wire Climbing on the Hindlimb Skeleton of Mice

134-Jorgensen, Adam
Brigham Young University
MicroScribe 3D Analysis of the Rotator Cuff Muscles Compared to MRI Reconstruction

135-Laslo, Jillian
West Liberty University
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Pennsylvania State University
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108. Vaillancourt, Mylène
Centre de Recherche-Institut Universitaire de Cardiologie et de Pneumologie de Québec
Role for Bromodomain-Containing Protein 4 in Pulmonary Arterial Hypertension

109. Vanderkamp, Robert
Michigan State University
Sympathetic Tone Differentially Regulates MHC-II Expression by Macrophages and Enteric Glia in the Gastrointestinal Tract

110. Varela, Vanessa
Federal University of São Paulo
Stern Cells Improved Renovascular Hypertension Independently of the Change of Renal Water and Sodium Transporters

111. Vasdev, Amrit
Carleton College/Mayo Clinic
A Novel Method to Quantify Diaphragm Muscle Fiber Type Clustering in the Context of Sarcopenia

112. Vicent Allende, Maria
Williams College
Physiological Differences Between Torpor and Forced Hypothermia in Mice

113. Vides, Melissa
Fort Hays State University
Use of AMP Protein Kinase as a Potential Molecular Marker to Investigate the Development of Obesity in Non-Model Fish Species

114. Villanueva, Emmanuel
University of California, Merced
Induction of Glial Cytokine Expression and Sickness Behavior Precede Microglial Morphological Alterations Following Acute Immune Challenge

115. Voong, Susan
University of Iowa
The Effects of Dietary Capsaicin on Ventilation in Aging Mice

116. Wakefield, Paige
University of Alberta
Effect of Pregnancy on Sympathetic and Peripheral Vascular Responses to the Cold Pressor Test

117. Wakeham, Travis
Michigan Technological University
Obesity and Neural Cardiovascular Responses to Mental Stress in Humans

118. Walter, Rachelle
University of Colorado Denver
GLP1R Regulation of Gap Junction Coupling in the Islet of Langerhans

119. Wang, Ryan
University of Manitoba
Regulation of Scleraxis-mediated Cardiac Fibrotic Gene Expression by Serine Phosphorylation

120. Yellowhair, Tracylyn
University of New Mexico
PICK1 is Required for ASIC1-Mediated Activation of NFATc3 in Pulmonary Arterial Smooth Muscle Cells

121. York, Julia
University of British Columbia
Pulmonary Mechanics of High Altitude Waterfowl

122. Younatham, Ramsan
University of Iowa
Sodium Sialylate Prevents TNF alpha-induced Reductions in Insulin-stimulated eNOSser1177 Phosphorylation but Not Akt in Human Aortic Endothelial Cells

123. You, Sook
University of Illinois at Urbana-Champaign
Role for Bromodomain-Containing Protein 4 in Pulmonary Arterial Hypertension

124. Yu, Chieh
University of Michigan
G Protein-Coupled Estrogen Receptor Activation Attenuates Rat Aortic Smooth Muscle Cell Proliferation

125. Yu, Xiaoyu
University of Washington
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126. Yuan, Si
University of California, San Diego
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127. Zhang, Yuan
University of Minnesota
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128. Zhao, Jun
University of Illinois at Urbana-Champaign
Regulation of Cytokine-Induced IL-6 Secretion in Human Macrophages

129. Zhou, Nengxi
University of California, San Francisco
Enhanced Renal Potassium Secretion Associated with Increased Vasopressin Prevents Hyperkalemia in a Rat Model of Hemorrhagic Shock

130. Zhou, Xiaorong
University of California, Berkeley
The Effects of Dietary Capsaicin on Ventilation in Aging Mice

131. Zhou, Xinyu
University of California, San Francisco
Enhanced Renal Potassium Secretion Associated with Increased Vasopressin Prevents Hyperkalemia in a Rat Model of Hemorrhagic Shock

132. Zhu, Song
University of California, San Francisco
Enhanced Renal Potassium Secretion Associated with Increased Vasopressin Prevents Hyperkalemia in a Rat Model of Hemorrhagic Shock

133. Zhu, Yuan
University of California, San Francisco
Enhanced Renal Potassium Secretion Associated with Increased Vasopressin Prevents Hyperkalemia in a Rat Model of Hemorrhagic Shock

134. Zhu, Yujie
University of California, San Francisco
Enhanced Renal Potassium Secretion Associated with Increased Vasopressin Prevents Hyperkalemia in a Rat Model of Hemorrhagic Shock

2015 APS Undergraduate Presenters

43. Kashyap, Shreya
Tulane University
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44. Kaur, Gurjot
Millisaps College
Enhanced Serotonin (5-HT)-Mediated Carotid Vessel Constriction From the Fawn Hooded Hypertensive (FHH) Rat

45. Keller, Laura
Bowdoin College
Neuromodulator Permeability of a Ganglionic Sheath in the Lobster, Homarus americanus

46. Kent, Ivan
University of Scranton
Methodological Considerations for Assessing Measures of Spontaneous Cardiac Baroreflex Sensitivity in Humans

47. Keri, Jenessa
McGill University
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48. Khan, Nabihah
Benedictine University
Bile Acid (BA), Lithocholic Acid (LCA), Reverses Chenodeoxycholate (CDCA)- and Cytokine-Induced Loss in Epithelial Barrier Function in Human Colon Carcinoma T84 Cells

49. Kim, Sally
Rutgers University
Characteristics of Skin Inflammatory Cells Following Exposure of Mice to Sulfur Mustard

50. Kocakoloski, Genevieve
University of Dayton
Effects of Single-dose Dietary Nitrate on Oxygen Consumption During and After Prolonged Submaximal Exercise in Healthy Humans

51. Le, Angela
Le Moyne College
The Effects of Dietary Capsaicin on Ventilation in Aging Mice

52. Lee, Debby
University of California, Merced
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53. Leon, Camille
West Virginia University Health Science Center
Mechanisms of Vascular Dysfunction in Depression and Metabolic Syndrome

54. Li, Miranda
Emory University
NADPH Oxidases Mediate Zinc Deficiency-Induced Oxidative Stress in Mouse Kidneys

55. Liao, Lin
Duke University
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56. Liu, Melissa
Emory University
Regulation of the Interaction of NCC and ENaC by SGK1

57. Macrorie, Sarah
University of Oregon
Post-weaning Western Style Diet Leads to Increased Activity of Complex IV of Non-human Primates When Exposed to Western Style Diet in utero

58. Martin, Eric
University of Florida
Impact of Prenatal Nicotine and I nfection on Postnatal Development and Forebrain Gene Expression

59. Martinez, Diego
Texas A&M International University
Pro Inflammatory Cytokines in Smokers and Non Smokers Following Different Intensity of Exercises

60. Martinez Cabanero, Javier
University of Castilla-La Mancha
Identification of the Vertebrate RIM2 Ortholog by Genetic Complementation for Heme

61. Maue, Ellen
Indiana University-Purdue University Indianapolis
Effect of Insulin on Transepithelial Na+ Transport in Renal Principal Cells Grown Under Normo-glycemic, Hypoinsulinemic Conditions

62. McCannon, Dillon
Beloit College
Girth to Height Ratio (GHR) is Inversely Correlated to Plasma Glucose to Insulin Ratio (GIR), a Measurement of Insulin Resistance, in Horses

63. McCarter, Monika
Lehigh University
Optimizing the Micropipette Perfusion Technique Will Allow for Rat Cerebral Vascular Network Analysis Through uCT Image Quantification

64. McCormick, Brittney
University of Arizona College of Medicine-Phoenix
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2015 APS Undergraduate Presenters

65-Mika, Aleksander Brigham Young University
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66-Miller, Matthew University of Kansas
Demonstrating a Role for Nuclear APC in Intestinal Cellular Differentiation

67-Montgomery, Darrice Clark Atlanta University
Calpain-2 Proteolysis is a Negative Feedback Regulator of eNOS

68-Mullinax, Billy2 Presbyterian College
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69-Muniz, Brandon4 University of Texas at Brownsville
Activation of the Ghrelin Receptor Mediates NMDA Receptor Phosphorylation at the NR1 Subunit in the Rat Hippocampus

70-Nash, Claire Fort Hays State University
Stearoyl-CoA Desaturase mRNA in Channel Catfish: A Potential Molecular Marker to Investigate Development of Obesity Using Non-model Fish Species

71-Nyonsoba, Edouard University of Central Arkansas
Estrogen Induces Coronary Arterial Dilation via Downregulation of Voltage-gated, Ca2+ Channels

72-Orcseh, Hannah University of North Florida
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73-Osmani, Kashif1 University of Illinois at Chicago
Phorbol Dibutyrate (PDB) Regulation of the Cystic Fibrosis Transmembrane Conductance Regulator (CFTR) Does Not Involve MicroRNAs (miRNAs)

74-Paquin, Zachary Beloit College
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75-Paul, Gabriel George Washington University
Acid Aspiration Evoked Respiratory Reflexes Persist in TRPV1 and TRPA1 Knockout Mice

76-Pelletier, Gwendolyn4 University of New England
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77-Powell, Mackenzie1 University of Evansville
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78-Prakash, Shahanas,4 University of Cincinnati
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79-Quinn, Sierra4 Georgia Regents University
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80-Ramirez-Vizcarrondo, Carolina2 Brown University
Novel Behavioral Assays to Model Neurodevelopmental Disorders in the Xenopus laevis Tadpole

81-Ray, Jason Brigham Young University
f-c-Fos Increases Functional β-cell Mass

82-Rice, Keeley Stony Brook University
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83-Robinson, Alayna3 Xavier University of Louisiana
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84-Rodriguez-Deliz, Carla University of Puerto Rico at Ponce
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85-Rouabhi, Mohamed4 University of Iowa
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86-Ruan, Ting5 University of Utah
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2015 APS Undergraduate Presenters

87-Sainz, Anthony1,3 University of Utah
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88-Saito, Rext Brigham Young University
Macrophase-secreted Ceramides are Necessary for Myocardial Mitochondrial Disruption with LPS Treatments

89-Samuel, Kelara4 University of Florida
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90-Sanchez Walk, Andrea Western Wyoming College
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91-Schneider, Aaron University of Iowa
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92-Schneider, Melinda5 University of California, San Diego
Nod1/Nod2 Receptors Modulate the Microbiota-Gut-Brain Axis

93-Sen, Josh4 University of Virginia
miR-122, miR-17, and miR-21 Modulate the Expression of CD11a in Monocytes

94-Shiwa, Yuki Nara Women’s University
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95-Simmons, Kurtis Brigham Young University
Macrophage-secreted Ceramides are Necessary for Skeletal Muscle Mitochondrial Disruption with LPS Treatments

96-Sinha, Utkarshna1 University of Illinois at Chicago
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97-Smith, Noah1 Messiah College
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98-Spries, Denisha3 Tougaloo College
Dissociating the Metabolic and Cardiovascular Effects of Probiotic VSL#3 on Cytokine and Tight Junction Protein Expression in Intestinal Epithelial Cells

99-Stewart, Lauren Missouri Western State University
Effects of Probiotic VSL#3 on Cytokine and Tight Junction Protein Expression in Intestinal Epithelial Cells

100-Stewart, Lauren Missouri Western State University
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