Message from Endocrinology and Metabolism Section Chair Damian G. Romero

Dear Members,

Experimental Biology (EB) 2021, the first fully virtual EB meeting, was a great success and a positive experience for all APS members. Thanks to all the speakers, chairs, volunteers, and APS staff for making EB2021 a success despite the difficult circumstances. Things are getting better, and EB2022 is planned to be an in-person meeting on April 2-5, 2022, in Philadelphia, PA. Yes, we will be able to meet in person after a two-year impasse. There is light at the end of the tunnel but we still have to do our part to stay safe and overcome this pandemic.

EB2022 will be the end of an era, after more than 25 years, EB2022 will be the last EB meeting. However, it will not be long before we all meet at Physiology Summit 2023, the new APS annual meeting. Physiology Summit 2023 has been years on the planning and will be a novel and exciting meeting with experiences targeted to each and all APS members. Stay tuned for news on Physiology Summit 2023 in the coming months.

EB2022 will be the last, but not the least, EB meeting. The E&M section has put together an exciting program for EB2022 that will surely be of interest to all our members. EB2022 abstract and award submissions are open. Don’t delay submitting your great science to EB2022. Abstracts deadline is November 30, 2021. E&M-sponsored awards deadline is December 7, 2021. Check inside this newsletter for information on EB2022 abstracts, awards, program, etc.
Congratulations to all 2021 E&M section awardees, including Solomon A. Berson Distinguished Lectureship Robert S. Balaban, E&M Section New Investigator Award Paul M. Titchenell, and Virendra B. Mahesh Award of Excellence in E&M Alexandra M. Huffman, among many other outstanding awardees. Congratulations also to Porter Fellows Rashaun Williams and Cesar Barrabi. Learn more about E&M awardees and their research project inside this newsletter.

Please do not hesitate to contact me or any of the E&M Steering Committee members with ideas, suggestions, or concerns.

Keep safe and healthy, and encourage your colleagues, relatives, and friends to do the same.

Damian G. Romero

Log in to My APS Hubs to subscribe to section, committee and group announcements.

Congratulations to Endocrinology and Metabolism 2021 Awardees

2021 Solomon A. Berson Distinguished Lectureship of the Endocrinology & Metabolism Section
Robert S. Balaban, Ph.D.

National Heart, Lung, and Blood Institute, National Institutes of Health

Biography: Robert Balaban received his B.S. in biology and chemistry from the University of Miami in 1971 and his Ph.D. in physiology and pharmacology from Duke University in 1980. He was awarded a NATO fellowship to the Department of Biochemistry at the University of Oxford in 1981. In 1982, Dr. Balaban joined the NIH as a staff fellow in the NHLBI Laboratory of Kidney and Electrolyte Metabolism. He was named Chief of the newly formed Laboratory of Cardiac Energetics in 1988. Dr. Balaban served as trustee and president of the Society for Magnetic Resonance in Medicine from 1994 to 1995, of the International Society for Magnetic Resonance in Medicine from 1995 to 1996, and of the Society for Cardiovascular Magnetic Resonance from 1999 to 2001. He is a member of the American Physiological Society, the
International Society for Magnetic Resonance in Medicine, the Society for Cardiovascular Magnetic Resonance, the American Society for Cell Biology, and the Biophysical Society.

**2021 Endocrinology and Metabolism Section New Investigator Award**

**Paul M. Titchenell, Ph.D.**

University of Pennsylvania Perelman School of Medicine, Department of Physiology and Institute for Diabetes, Obesity and Metabolism

*Biography:* Paul Titchenell, Ph.D. earned his B.S. in Biochemistry and Molecular Biology from Dickinson College. Following his undergraduate studies, Dr. Titchenell obtained a Ph.D. from Pennsylvania State University, in the laboratory of Dr. David Antonetti. During his graduate training, he investigated the signaling mechanisms responsible for diabetic vascular complications and identified and patented a series of small molecular kinase inhibitors that demonstrated pre-clinical efficacy for the treatment of retinal edema induced by pro-inflammatory and angiogenic growth factors. Following his Ph.D. studies, Dr. Titchenell trained as a NRSA-supported postdoctoral fellow with Dr. Morris Birnbaum at the Perelman School of Medicine at the University of Pennsylvania. Here, he developed several novel mouse models to dissect the tissue-specific actions of insulin in the control of hepatic lipid and glucose metabolism. Supported by a Career Development Award from the NIH, Dr. Titchenell was appointed as an Assistant Professor of Physiology in the Perelman School of Medicine at the University of Pennsylvania in 2017. Dr. Titchenell’s laboratory investigates the molecular mechanisms of insulin action and insulin resistance using a combination of biochemical, cellular, and organismal physiological techniques. In particular, his laboratory is focused on defining the role of the PI3K-AKT-mTORC1 signaling cascade in the control of liver, adipose, and skeletal muscle metabolism and physiology.

**2021 Virendra B. Mahesh Award of Excellence in Endocrinology and Metabolism**

**Alexandra M. Huffman, MS**

University of Mississippi Medical Center, Department of Cell and Molecular Biology

*Biography:* Alexandra Huffman, MS earned her M.S. in Molecular Biology from the University of Mississippi Medical Center. Following her graduate studies, she joined the laboratory of Dr. Virendra Mahesh at the University of Mississippi Medical Center. During her time there, she investigated the role of the PI3K-AKT-mTORC1 signaling cascade in the control of liver, adipose, and skeletal muscle metabolism and physiology. Her research focused on defining the role of this pathway in the development of insulin resistance and type 2 diabetes. Supported by a Career Development Award from the NIH, Dr. Huffman was appointed as an Assistant Professor of Physiology at the University of Pennsylvania in 2017. Dr. Huffman’s laboratory investigates the molecular mechanisms of insulin action and insulin resistance using a combination of biochemical, cellular, and organismal physiological techniques. In particular, his laboratory is focused on defining the role of the PI3K-AKT-mTORC1 signaling cascade in the control of liver, adipose, and skeletal muscle metabolism and physiology.
Abstract title: SARS-CoV-2 Viral Entry Proteins in Hyperandrogenemic Female Mice: Implications for Women with Polycystic Ovary Syndrome (PCOS) and COVID-19  
Mentor: Damian G. Romero, Ph.D.  
Biography: Alexandra M. Huffman, MS is a Ph.D. candidate in her third year of study with the Department of Cell and Molecular Biology Department at the University of Mississippi Medical Center. She earned her B.S and M.S. in Public Health at the University of Massachusetts Amherst at the Department of Environmental Health. Her current research is focused the molecular and physiological mechanisms that lead to cardiovascular and metabolic dysregulations triggered by excess androgens in Polycystic Ovary Syndrome (PCOS), the most common endocrine disorder in reproductive age women. She expects to integrate basic science with large population studies to identify novel therapeutic approaches for women affected with this pathological condition.

2021 Steven M. Horvath Professional Opportunity Award  
Osvaldo Rivera Gonzalez  
University of Mississippi Medical Center, Department of Physiology and Biophysics  
Abstract title: Knockout of the Endothelin B receptor in adipocytes improves insulin sensitivity, and the metabolic profile of male mice fed a High fat Diet  
Mentor: Joshua S. Speed, Ph.D.

2021 Research Recognition Award  
Katherine Blackmore  
George Washington University  
Abstract title: Central Feminization of Male Mice Reduces Metabolic Syndrome

2021 Research Recognition Award  
Lauren E. Eagan, MPH  
University of Maryland, Department of Kinesiology  
Abstract title: Natural Fluctuations in Progesterone Do Not Impact Vascular Function in Healthy Premenopausal Women  
Mentor: Sushant M. Ranadive, Ph.D.  
Biography: Lauren is currently working towards her doctoral degree at the University of Maryland, College Park under the mentorship of Dr. Sushant Ranadive. Lauren is interested in researching the roles of race and sex hormones on inflammation and vascular function. Her research passion is to expand the currently limited understanding of the physiological
mechanisms contributing to increased risk for hypertension among underrepresented populations. Lauren is a strong believer in the importance of representing female scientists as strong and capable leaders in physiology and commits to incorporating positive efforts toward diversity and inclusion in her current and future scientific endeavors.

2021 Research Recognition Award
Vinicius P. Garcia, Ph.D.
University of Colorado-Boulder, Department of Integrative Physiology

Abstract title: Glucose-Derived Endothelial Microvesicles Induce a Pathologic Endothelial Phenotype
Mentor: Christopher A DeSouza, Ph.D.
Biography: Vinicius Garcia is a postdoctoral researcher in the Integrative Vascular Biology Laboratory at the University of Colorado. He received his Ph.D. in Cardiovascular Science from Fluminense Federal University-Brazil in 2019. His dissertation work was awarded the best Ph.D. dissertation by the Brazilian Society of Cardiology. For the past seven years, his academic and professional training has focused on studying vascular physiology in humans, particularly cardiovascular and cerebrovascular disease risk factors such as hypertension, obesity, and metabolic syndrome. His postdoctoral training has focused primarily on extracellular vesicle biology, particularly endothelial microvesicles, and their impact on endothelial cell function in terms of cardiovascular and cerebrovascular disease risk and pathology. He enjoys books and running, and enthusiast of data science and machine learning.

2021 Research Recognition Award
Christopher K Kargl
Purdue University

Abstract title: Skeletal Muscle Extracellular Vesicles Regulate Endothelial Cells in a Fiber Type Dependent Manner
2021 Research Recognition Award
Jacqueline R. Leachman
University of Kentucky

Abstract title: Early life stress enhances the obesogenic response in female mice via the Mineralocorticoid Receptor (MR) signaling

2021 Research Recognition Award
Greg L. McKie
University of Guelph

Abstract title: Intermittent Ambient Cold Exposure Is Not an Effective Obesity Treatment in Mice Housed at Thermoneutrality
2021 Research Recognition Award
Jacob E. Pruett, BS
University of Mississippi Medical Center, Department of Cell and Molecular Biology

Abstract title: Interaction between Renal SGLT2 and Renin-Angiotensin System in a PCOS Rat Model
Mentor: Licy L. Yanes Cardozo, MD
Biography: Jacob E. Pruett is a fifth year MD/PhD student at the University of Mississippi Medical Center. He graduated Summa Cum Laude from the University of Southern Mississippi with a BS in Chemistry with Biochemistry Emphasis where he worked with Dr. Douglas Masterson. He is currently performing graduate studies under the mentorship of Dr. Licy L. Yanes Cardozo. His research focuses on the impact of sodium-glucose cotransporter-2 inhibition on cardiometabolic risk factors in Polycystic Ovary Syndrome. He is funded by an NIH Fellowship. He has been inducted into the Alpha Omega Alpha Honor Medical Society and the Gold Humanism Honor Society. Recent awards include the Virendra B. Mahesh Award of Excellence in Endocrinology from the American Physiological Society, and the Nathan Solomon & Irene Oransky-Solomon Medical Student Award from the Southern Society for Clinical Investigation. He is an active member of the American Physiological Society and the American Physician Scientists Association.

2021 Research Recognition Award
Jacob J. Stuppy, DO
University of Colorado Anschutz, Pediatric Endocrinology and Rocky Vista University

Abstract title: Short Term Glucagon-Like Peptide-1 Receptor Agonist Therapy Does Not Influence Hepatic De Novo Lipogenesis in Polycystic Ovary Syndrome
Mentor: Melanie Cree-Green, Ph.D.
Current affiliation: University of Minnesota PSTP program

Biography: I completed my master’s degree at the Anschutz Medical Campus in Colorado where I studied the role of tissue-specific insulin resistance in type 1 and type 2 diabetes, and polycystic ovary syndrome. I also studied hepatic steatosis and the metabolic sequelae leading to NAFLD in adolescents. I completed my doctorate of osteopathy at Rocky Vista University. While in medical school, I worked on several different research projects further characterizing tissue-specific insulin resistance that manifests in type 1 diabetes, type 2 diabetes, and PCOS, as well as the mechanisms by which hepatic steatosis develops in youth with PCOS. I plan to focus on research in either autoimmunity or endocrinology with the goal of developing new treatments to chronic endocrine mediated or autoimmune disease. I recently began my pediatric physician scientist residency training at the University of Minnesota and look forward to continuing my training in one of the many strong fellowship programs here.

2021 Research Recognition Award
Abigail L. Tice
Florida State University

Abstract title: Drinking Off(s) the Clock: Chronic Alcohol Suppresses Skeletal Muscle Molecular Clock

2021 Physiological Reports Research Award in Endocrinology and Metabolism
Viviane C. L. Gomes, DVM, DACT
Louisiana State University School of Veterinary Medicine, Department of Veterinary Clinical Sciences
Abstract title: Sexually Dimorphic Kisspeptin/Receptor Dysregulation in the Reproductive White Adipose Tissue of BPH/5 Mice, A Model of Preeclampsia

Mentor: Jenny L. Sones, Ph.D.

Biography: As Instructor of Theriogenology and PhD candidate at Louisiana State University (LSU) School of Veterinary Medicine, I teach, provide veterinary clinical service, and develop research in the Sones Laboratory. After receiving my veterinary degree in Brazil, I have completed an internship at University of Georgia and residency at LSU, becoming a Diplomate of the American College of Theriogenologists. My clinical interests are equine and canine assisted reproduction, and my doctoral research is centered on cellular dynamics during placentation and pregnancy adverse outcomes. Our studies of the role of Kisspeptins in trophoblast cell dynamics and metabolic dysregulations in preeclampsia have received funding and recognition from LSU, Society of Phi Zeta, Theriogenology Foundation, and American Physiological Society. My goal is to build a career as clinician scientist, contributing with the understanding of gestational syndromes and continuing to promote student education and development.

Congratulations to 2021 APS Porter Fellows affiliated with E&M Section

Rashaun Williams, B.S.
University of Wisconsin-Madison

Mentor: Dawn B. Davis, MD, Ph.D.

Biography: I was born in The Bronx; New York and I am passionate about diabetes and inspiring upcoming scientists. Being raised by a single mother with diabetes with no form of higher education I was inspired to influence other future scholars that they are capable. I am a 5th year PhD candidate at the University of Wisconsin-Madison in the Nutritional Sciences program. Outside of science, I enjoy learning different instruments and practicing martial arts. I also spend time away from the bench teaching kids from rural areas about science and speaking to Congress about the importance of funding research. My goal after graduate school is to pursue a career in science policy. I want to impact science on a national level and be in a position where I can influence the ease of access to scientific data and literature and improve science literacy of those who are not in research.
*Fellowship research plan title:* Intraislet expression of cholecystokinin during diabetic stress conditions

*Research plan summary:* My research entails studying a potential novel therapeutic for both type-1 and type-2 diabetes called cholecystokinin (CCK). The underlying cause of diabetes is the death and dysfunction of beta-cells which leads to the complete termination of insulin production, or insulin resistance. Several therapeutics, like metformin, help alleviate symptoms of diabetes but do not target beta-cell death and dysfunction completely. A recent study from our lab shows that CCK has protective effects from cytokine induced beta-cell death and if highly present during diabetogenic conditions caused by leptin deficient obesity. My research aims to elucidate the process that leads to upregulation of CCK in the pancreatic islet and what function CCK has in protection of beta-cells.

**Cesar Barrabi, BA**  
Wayne State University, Department of Physiology  

*Biography:* “My name is Cesar Barrabi, and I was born and raised in south Florida where I obtained my B.A. in Psychology at Florida International University (FIU). It was very difficult moving away from my parents because of the strong bond we had as a Hispanic family. I enjoyed many hobbies I still enjoy today such as painting, cooking/baking and playing sports. I moved to Detroit, MI in 2016 to begin my graduate career at Wayne State University (WSU) where I was awarded a two year traineeship from the Initiative for Maximizing Student Diversity (IMSD) program, funded by the NIH. This prestigious award provides support to minority PhD students across WSU. This experience sparked my passion for participating in minority based service activities which led me to seek out other opportunities to give back to my community. I was later awarded an APS Porter fellowship to continue my graduate career and achieve my goal to become a role model for minority students and to promote diversity in the sciences.”

*Fellowship research plan title:* The Regulation of Proinsulin Folding by ER Co-Chaperones in Pancreatic β cells

*Research plan summary:* My research is interested in understanding beta cell dysfunction in type 2 diabetes. My work combines techniques such as quantitative proteomics, western blotting, fluorescent microscopy, and CRISPR-Cas9 to understand the beta cell response to chronic elevated glucose as well as the study the role of various ER proteins in insulin biogenesis. After years of study my passion for studying cellular physiology...
and diabetes grew exponentially. I chose the field of diabetes because several of my family members died of diabetic complications. My father currently suffers from diabetes, so being involved in the advancement of diabetes research adds a personal component to my study.

**Congratulations to New Trends in Sex and Gender Medicine awardees sponsored by American Journal of Physiology - Endocrinology and Metabolism**

**Autumn N. Harris**
University of Florida, Department of Small Animal Clinical Sciences

*Abstract title: Role of renal androgen receptor in ammonia metabolism*

**Aaron M. Voshage**
University of Missouri-Columbia, Department of Nutrition and Exercise Physiology

*Abstract title: The hemodynamic response to sympathetic activation differs in women with natural menstrual cycles and women using oral contraceptives*
Endocrinology and Metabolism Section program at Experimental Biology 2022

EB2022 abstracts submission is now open. The deadline to submit is Tuesday, Nov. 30, 2021 at 11:59 PT. Do not delay to showcase your great science at EB2022.

E&M section sponsored abstract topic categories

Oral & Posters:
1115-APS Advanced inter-organ communication: influencer for metabolism (Wang/Yin)
1116-APS Reward/motivated feeding: why we override our satiation signals (Samson/Mietlicki-Baase)

Posters:
1120-APS Adipocyte biology
1121-APS Adrenal gland biology in endocrinology and metabolism
1122-APS Cardiovascular endocrinology
1123-APS COVID-19 in endocrinology and metabolism
1124-APS Diabetes, pancreatic and gastrointestinal hormones
1125-APS Endocrine-disrupting chemicals
1126-APS Exercise endocrinology and metabolism
1127-APS Gestation, fetal and neonatal biology, including mammary gland and lactation
1128-APS Pituitary endocrinology
1129-APS Hormones and cancer
1130-APS Mitochondrial biology in endocrinology and metabolism
1131-APS Nutrition and nutrient metabolism
1132-APS Obesity and satiety
1133-APS Parathyroid, bone and mineral metabolism
1134-APS Reproductive biology and sex-based medicine
1135-APS Signaling pathways in endocrinology and metabolism
1136-APS Systems biology and functional -omics in endocrinology and metabolism
1137-APS Thyroid gland biology and endocrinology
1138-APS Clinical and translational endocrinology and metabolism
1139-APS Endocrine and metabolism in normal and abnormal psychiatry

The Endocrinology and Metabolism Section will have an exciting program at Experimental Biology 2022 to be held in-person on April 2-5, 2022 in Philadelphia, PA. Please find below the highlights of the Endocrinology and Metabolism section sessions (in chronological order). For detailed Endocrinology and Metabolism Section program information at EB2022 follow this link.

For the overall APS program at EB2022 which includes hundreds of sessions follow this link.

Hope to see you in person at our annual meeting at EB2022.
Grant R. Kolar, M.D., Ph.D.
E&M representative Joint Program Committee

EB2022 E&M section sponsored program
Sunday, April 3, 2022
8:30 AM - 10:00 AM ET
• The Physiology of Amylin Receptors and of Amylin Responsive Neurons Chair: Thomas Lutz, Co-Chair: Tune Pers

1:30 PM - 3:00 PM ET
• Virenda B. Mahesh Award of Excellence in Endocrinology & Metabolism Chair: Jennifer Steiner, Co-Chair: Grant R Kolar

3:30 PM - 5:00 PM ET
• Advanced Inter-Organ Communication: Influencer for Metabolism Chair: Yajing Wang, Co-Chair: Liya Yin

Monday, April 4, 2022
8:30 AM - 10:00 AM ET
• Reward / Motivated Feeding: Why We Override Our Satiation Signals Chair: Willis Samson, Co-Chair: Elizabeth Mietlicki-Baase

3:30 PM - 5:00 PM ET
• Solomon A. Berson Distinguished Lectureship of the APS Endocrinology & Metabolism Section Chair: Damian G. Romero, Co-Chair: Willis Samson

Tuesday, April 5, 2022
1:30 PM - 3:00 PM ET
• Advances in Neuroendocrine-Metabolic Axis Chair: Bashair M Mussa, Co-Chair: Salah Abusnana

3:30 PM - 5:00 PM ET
• Endocrinology and Metabolism: New Investigator and Research Recognition Awards Session Chair: Jennifer Steiner, Co-Chair: Grant R Kolar
Awards deadline is fast approaching

The deadline for award application submissions is fast approaching. All award applications for the E&M section are due December 7, 2021. Information for our E&M section’s awards (New Investigator Award, Research Recognition Awards, and Virendra Mahesh Award for Excellence in Endocrinology) can be found following this link. Trainees and postdocs are eligible for the RRAs and Mahesh award, while those within 10 years of their degree are eligible for the NIA. Don’t miss this opportunity to be recognized for your outstanding scientific achievements.

Jennifer Steiner, Ph.D.
E&M Awards Committee Chair

Applications for APS committee service are now open

It is time to apply for APS committees for terms beginning in the spring of 2023. Applications are accepted for committee service from November 8th, 2021 to February 7th, 2022. Members are appointed by the APS Council for a three-year term. The application process is easy and available through the online awards module. There is opportunity for everyone! Please, check the vacancies listed below and apply for a committee. Currently, we do not have E&M representation in the Animal Care and Experimentation, Conference, DEI, Science Policy, and Women in Physiology Committees. Consider applying for one of these committees. This will keep us moving forward and keep our E&M section at the forefront.

Animal Care and Experimentation Committee: 3 regular members, 1 Chair
Awards Committee: 4 regular members
Career Opportunities in Physiology: 2 regular members, 1 student member, 1 postdoc member
Conference Committee: 5 regular members, 1 Chair
Diversity, Equity, and Inclusion: 4 regular members, 1 Chair
Finance Committee: 2 regular members
International Committee: 4 regular members, 1 trainee
Physiologist in Industry Committee: 3 regular members
Publications Committee: 2 regular members, 1 Chair
Science Policy Committee: 4 regular members, 1 trainee
Women in Physiology Committee: 5 regular members  
[note: In bold, committees without E&M section representation and more chances of being appointed]

The application process only takes a few minutes, and it will be fun if you make it on a committee!  
Please, apply and encourage your colleagues and trainees to apply.

Best wishes,

Andrea Zsombok, PhD  
E&M representative Committee on Committees

Consider making a donation to support the Endocrinology and Metabolism Section during the APS 2022 Annual Fund Drive

The financial support we receive enables us to provide members with awards, resources, training, education programs, enhanced career development resources and more. The E&M Section have specific programs for career development of members at all career stages. Some of them include:

• Solomon A. Berson Distinguished Lectureship
• Virenda B. Mahesh Award of Excellence in Endocrinology and Metabolism
• Awardees Session in Endocrinology and Metabolism at APS Annual Meeting

Please follow the link to make your one-time or monthly donation. Thanks for your generous support.
Congratulations to Christos S. Katsanos, Ph.D. (Arizona State University) for being inducted into the 2021 class of Fellows of the APS (FAPS)

Christos S. Katsanos, PhD, FAPS is an Associate Professor in the School of Life Sciences at Arizona State University and an adjunct faculty in the Department of Physiology and Biomedical Engineering at Mayo Clinic. He has been a member of the American Physiological Society (APS) since 1998, with the Endocrinology and Metabolism Section as his primary affiliation. He is currently a member of the APS Awards Committee.

Dr. Katsanos received his PhD in Exercise Physiology from Florida State University and completed a postdoctoral training in the field of human metabolism at the University of Texas Medical Branch. His research achievements as trainee have been recognized by the Environmental & Exercise Physiology and the Endocrinology & Metabolism Sections of the APS.

Dr. Katsanos has served as an ad hoc member at various NIH study sections, and as a grant reviewer for the American Diabetes Association and several Research Foundations.

Dr. Katsanos is currently the Director of the Human Obesity and Metabolism Laboratory at Arizona State University. His laboratory employs mass spectrometry methodologies, mitochondrial function assays, and traditional molecular biology techniques to answer questions relevant to muscle metabolism in obesity/insulin resistance. Dr. Katsanos’s research has been supported by the NIH and the American Diabetes Association.

Dr. Katsanos has keen interest in promoting the field of Physiology outside the University and Research settings. He has given several talks of public interest describing the roles of nutrition and exercise in the prevention and treatment of obesity and Type II Diabetes. He serves regularly as judge at local school, state, national and international science fairs. He was a member of the inaugural committee that established the Arizona Physiological Society (AZPS), a local chapter of the APS, in 2008. He has served as Secretary/Treasurer, and he is currently the President of the AZPS.
Physiology Summit
2023

APS will launch a new world-class annual meeting in 2023 named Physiology Summit 2023. Some highlights from this exciting new meeting:

- Opening and closing general sessions designed to inspire and engage all participants, featuring big name speakers.
- 3 – 5 concurrent game-changer sessions on Friday and Saturday Invited talks and panel discussions of top researchers.
- Physio-HUB community space - learning and networking destination AM Coffee, Poster receptions.
- Virtual poster competition week prior.
- Foundational Sciences (FS) sessions – 8 FS periods of up to 10-12 concurrent sessions. Aim for ~50% cross-sectional programming, ~50% sectional driven content.

Do you want to get more details and stay updated on this exciting announcement?
Follow this link to get more details and get the latest news.

Grant R. Kolar, M.D., Ph.D.
E&M representative Joint Program Committee
News from the Trainee Advisory Committee

Set Yourself Up for Career Success
You may already be a leader in your class, lab or field. But, to maximize your potential, leadership, management and people skills. APS’ new Career Gateway—launching in November 2021—offers tools and guidance to help you plan intentionally for your professional journey to attain the career you want. Access a suite of resources curated for researchers, educators and trainees. Stay tuned for more details on this exciting new benefit for APS members in coming weeks and sign-up to receive email updates.

Deborah Osikoya, Ph.D.
E&M representative Trainee Advisory Committee
News from the Physiology Educators Committee

- **Barbara A. Horwitz and John M. Horowitz Undergraduate Research Awards**: Please encourage undergraduate students to apply for the Barbara A. Horwitz and John M. Horowitz Undergraduate Research Awards (due January 14, 2022).

- **ADInstruments Macknight Innovative Educator Award**: Regular or affiliate members of APS and the APS Teaching of Physiology. Section (1°, 2°, or 3° section) are eligible to apply for the ADInstruments Macknight Innovative Educator Award (deadline for applications January 10, 2022).

- **Medical Physiology Refresher Course**: The topic for the Medical Physiology Refresher Course at Experimental Biology 2022 will be “Water Homeostasis”

- **PECOP webinar**: Don’t forget to register for the next Physiology Educators Community of Practice (PECOP) webinar titled “What Do We Keep? Lessons Learned from Remote Teaching and Learning” taking place on November 18, 2021 at 11 am EST.
News from the Diversity, Equity & Inclusion Committee

Webinars
The Diversity, Equity & Inclusion Committee (DEI) has produced a series of Webinars addressing DEI in multiple topics that are available to all APS members. Don’t miss this opportunity to learn more on DEI and APS efforts to foster a diverse, equal and inclusive environment.

Celebrating Native American Heritage Month: Honoring Cultural diversity and values
November 17, 2021 11 a.m. EDT
Register following this link and take the opportunity to watch recorded versions of previous DEI Webinars.

Martin Frank Diversity Travel Awards
The Martin Frank Diversity Travel Award program is designed to broaden participation of those pursuing professional careers in physiological sciences. The specific intent of this program is to increase active participation in and networking at scientific meetings among trainees and early career faculty who are from groups underrepresented in the physiological sciences. Deadline for application: December 14, 2021.

Porter Physiology Development Fellowship
The goal of the Porter Physiology Development Fellowship is to encourage diversity among students pursuing full-time studies towards a PhD in the physiological sciences and to encourage their participation in the APS. Deadline for application: January 15, 2022.

Karla Haack, Ph.D.
Diversity, Equity & Inclusion (DEI) Committee Chair
News from FAPS Committee

The Committee reviewed 15 candidates for election to be Fellows of the American Physiological Society. All 15 reviewed were recommended to APS Council for FAPS designation. The criteria for elections can be summarized as follows:

For consideration for FAPS status, candidates must:

- Possess regular and/or emeritus member status for at least fifteen (15) consecutive years postdoctoral prior to the year of nomination.
- If the applicant had a gap in membership for just cause, they must a) have at least fifteen (15) total years of regular and/or emeritus membership with five (5) years of consecutive regular and/or emeritus membership immediately preceding the year of nomination, and b) explain the lapse in membership in the application documentation.

- Have a track record of APS leadership or service. Examples include, but are not limited to, the following:
  - APS Counselor, elected office or committee chair;
  - member of an APS committee, advisory group or task force;
  - leadership role in APS Section or Interest Group;
  - editor-in-chief, deputy editor, associate editor or editorial board member for any APS-affiliated publication;
  - committee member or elected office for an APS Section or Interest Group;
  - leadership role in PhUn Week activities;
  - APS conference organizer;
  - symposium organizer at multiple APS conferences.

(Note: Submitting abstracts and/or routinely attending EB or APS meetings does not suffice.)

In addition, meet three of the five prerequisites below:

- **Independent Grant Support/Funding:** Serve as Principal Investigator for peer-reviewed extramural research support from a nationally recognized agency (e.g., NIH, NSF).
- **Publications:** Demonstrate consistent scholarly production in the form of journal articles and/or book chapters with at least five (5) articles in APS publications as first or senior author.
- **Administration:** Serve in a leadership position in academia, industry or government (e.g., section chief, department chair, dean, vice president, chief medical officer, CEO, site lead).
- **Professional Service:** Provide unpaid service that promotes the
discipline of physiology and/or medicine (e.g., scientific study section, editorial board for a non-APS journal, leadership role in another scientific society, science blogger focusing on physiology/medicine).

- **Teaching:** Demonstrate leadership in local, state or national instruction in physiology or medicine (e.g., scholarly activity in education, recipient of a teaching award, developed new courses, authored/edited a textbook used at multiple institutions).

**Items required as part of the application/nomination process:**

- A “Statement of Qualifications” document (PDF file; no page limit) highlighting evidence that the candidate a) demonstrates a commitment to the APS, as evidenced by a track record of leadership roles or service to the Society, and b) meets three (3) of the five (5) prerequisites.
- Curriculum Vitae (in PDF format)
- Name and email address of two (2) active APS member nominators
- **Two nomination letters from a current APS Fellows is required for all applications**

Applications with complete dossiers are due in September each year. Please consider applying and/or being nominated.

Follow this [link](#) for candidacy for future election to FAPS status.

Willis K. “Rick” Samson, Ph.D. DSc FAPS
E&M Representative FAPS Committee

### News from Career Opportunities in Physiology Committee

**APS’ 2022 Career symposia** will feature the theme “Work-Life Balance”, with talks centered on avoiding burnout, self-care, and overcoming obstacles. **APS’ 2022 Mentoring symposia** will feature the theme “Navigating Career Obstacles”, with talks geared towards academic ethics, handling rejection, and career interruptions. Don’t miss these opportunities for career development.

Tracy Baynard, Ph.D.
Career Opportunities in Physiology Committee Member
News from AJP- ENDO

This year marks the 100th anniversary of the discovery of insulin, and AJP-Endocrinology & Metabolism (AJP-Endo) will publish several outstanding invited Review articles throughout the year. In his Editorial “The fascinating physiology of insulin: celebrating a centennial hormone”, Editor in Chief André Marette provides some background: “The American Journal of Physiology was at the forefront of the discovery of insulin in Toronto during the early 1921–1923 period. The seminal data showing that a pancreatic extract pure enough to consistently lower blood glucose in diabetic dogs was first presented by Banting and Macleod at the American Physiological Society’s 34th Annual Meeting in December of 1921, and the abstract was published in the American Journal of Physiology in 1922. This was followed by a series of key investigations performed in normal and hyperglycemic rabbits that were published in the Journal in 1922 and more studies reported by the Toronto team at the annual meeting of the Society in 1923 [reviewed by Goldfine and Youngren in the American Journal of Physiology in 1998]. This major achievement was recognized with the Nobel Prize in Physiology or Medicine in 1923 that was awarded jointly to Frederick Banting and John Macleod, who shared their award with Charles Best and James Collip, respectively.”

André Marette, Ph.D.
AJP-Endocrinology and Metabolism
Editor-in-Chief

CALL FOR PAPERS AJP-ENDOCRINOLOGY AND METABOLISM

Chronicity in Metabolism
Deadline: December 31, 2021

Deciphering the Contribution of the Gastrointestinal Tract on Glucose, Lipid, and Energy Metabolism
Deadline: December 31, 2021

Deconstructing Organs: Single-Cell Analyses, Decellularized Organs, Organoids, and Organ-on-a-Chip Models
Deadline: December 31, 2021

Check the continuously update line up of insulin-related manuscripts celebrating the 100th anniversary of the discovery of insulin following this link.
GPCR-Mediated Regulation of Fuel and Energy Metabolism in Peripheral Tissues
Deadline: December 31, 2021

Insulin’s First 100 Years — Where Next?
Deadline: December 31, 2021

Inter-Organ Communication in Homeostasis and Disease
Deadline: June 30, 2022
News from Physiological Reviews

The Editor (Sadis Matalon) and Deputy Editors (Willis K. Samson and Carol Ann Remme) are pleased to announce that the most recent IMPACT FACTOR for Physiological Reviews (PRV) is 37.312, placing the journal at the #1 position in all physiology journals. The 2020 SCOPUS Cite Score is 48.90 and the Google Scholar h-5 index is 82, both of which place PRV as the #1 journal in physiology.

Of interest to Members of the E&M Section recently published in PRV include:

**Invited Review: The Physiological Control of Eating: Signals, Neurons, and Networks**
Alan Watts, Scott Kanoski, Graciela Sanchez-Watts and Wolfgang Langhans

**Invited Review: Altered Islet Prohormone Processing: a Cause or Consequence of Diabetes**
Adam Ramzy and Timothy J. Kiefer

**Accompanying Editorial: A Comprehensive Review of the Neuroscience of Ingestion: The Physiological Control of Eating: Signals, Neurons, and Networks**
Willis K. Samson and Gina L.C. Yosten

**Invited Review: Obesity Cardiomyopathy: Evidence, Mechanisms and Therapeutic Implications**
Jun Ren, Ne N. Wu, Shuyi Wang, James R. Sowers, Yingmei Zhang

**Accompanying Editorial: A Primer on Obesity-Related Cardiomyopathy**
Willis K. Samson, Gina L.C. Yosten, Carol Ann Remme

Read these and other exciting reviews at PRV website.

Willis K. “Rick” Samson, Ph.D. DSc, FAPS
Deputy Editor Physiological Reviews
Greetings from AJP-Regu! We received good news this year—the impact factor of AJP-Regu has increased from 2.992 to 3.619! In addition, our cited half-life, which is a measurement of how long our manuscripts continue to be cited after they are published, has increased to 12.1 years. This means that our manuscripts continue to be cited even more than a decade after publication.

**Calls for Papers**
We are continuing to solicit manuscripts for our Call for Papers titled: *Don’t Deny Your Inner Environmental Physiologist: Investigating Physiology with Environmental Stimuli* Manuscripts submitted for this call will be handled by Guest Editors Dr. Blair D. Johnson (bj33@indiana.edu) and Dr. Daniel Gagnon (daniel.gagnon.3@umontreal.ca). Follow the [link](#) for more information on this Call. AJP-Regu is also participating in two Cross-Journal Calls for Papers: *Deconstructing Organs: Single-Cell Analyses, Decellularized Organs, Organoids, and Organ-on-a-Chip Models* and *Inter-Organ Communication in Homeostasis and Disease*.

**Thank you!**
Lastly, and most importantly, I want to thank YOU for your continued support of AJP-Regu through submission of your work and especially for your service as peer reviewers—we couldn’t do it without you! If you have any questions, comments, or ideas for AJP-Regu, please be sure to reach out to me at gina.yosten@health.slu.edu

Gina L. C. Yosten, Ph.D.
AJP-Regulatory, Integrative and Comparative Physiology Editor-in-Chief
Welcome new E&M Section Members!
(New E&M Members January-October 2021)

Trainees
Eunus Ali
Travis Anderson
Olufunto Badmus
Jocelyn Bel
Mesut Berber
Victoria Berlandi-Short
Nisha Bhattarai
Jessica Braun
Christopher Carey
Scarim Caue
Mari Chiles
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Sadler Dan
John Deaver
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Najwa Faiz
Katherine Garner
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Bhattarai Nisha
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Younes Rouabhi
Rishat Ruzi
Dan Sadler
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Faridah Salau
Caue Scarim
Abigayle Schnell
Al Seylanı
Justin Shahtout
Mio Shimomura
Deena Snoke
Mabry Steve
Alexandria Szalanczy
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Ana Valencia
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Renato Viglianti
Valerie Wagner
Nicholas Whitticar
Mingxin Yang
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Emilyn Alejandro
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Aftab Awan
Robbert Bipat
Kristen Boyle
Michael Carper
Shannon Chris
Leticia De Souza Cordeiro
Robert Dearth
Scott Ebert
Akamai Ehu
Timothy Garrow
Randa Gomaa Mahmoud
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