



american
physiological
society®

APS Gastrointestinal & Liver (GI-Liver) Section Newsletter Spring 2023

Chair: Pradeep Dudeja, PhD, Professor

Secretary /Treasurer: Jun Sun, PhD, Professor, FAPS

“I urge you all to please persuade all your physiology colleagues at your local institutions (who are not yet APS members) about the benefits of APS membership and the role of our section in the career growth of all involved in GI-Liver research.”

Pradeep Dudeja, PhD, Professor



Dear Members of the APS GI-Liver section,

It is my pleasure and privilege to serve you and lead our section. We continue to explore new ways to serve you better and every member of our steering committee is diligently involved to achieve this goal. As you all know, our APS meeting at Experimental Biology 2022 in Philadelphia was a great success. We witnessed great presentations and discussions by our trainees, distinguished speakers and a sold-out GIL banquet. We are proud to honor our 2022 and 2023 award recipients (included in this newsletter) including our trainee Research Recognition and poster awards and other prestigious awards, including the New Investigator and Distinguished Research awards and the Horace W. Davenport Distinguished Lectureship.

Let me highlight the new and exciting aspects of the 2023 American Physiology Summit, to be held in Long Beach, California, April 20-23. This will be the first-of-its-kind stand-alone meeting of APS, with many state-of-the-art sessions and lectures planned, including a lecture by Nobel Laureate David Julius, PhD, many game-changer sessions, trainee symposiums and wine and cheese poster sessions. There will also be highly interactive and fun social events, including the annual banquet for our GIL Section. Many of these sessions are interdisciplinary and designed to inspire and evoke new collaborations.

To make the APS membership and the APS GI-Liver Section membership more rewarding for everyone, we have been constantly involved in procuring more resources to fund our new activities. This year marks the first year with four to five additional trainee awards and a new mid-career distinguished lectureship award focused on pathophysiology of GI/Liver diseases, all generously funded by the Raj and Prem Goyal Foundation. Goyal Foundation has been extremely supportive of our section and this year has gifted \$50,000 to support a new John Fordtran Distinguished Scientist award and to organize a focused conference to bring together basic scientists, molecular biologists, cell biologists and physician-scientists to discuss the pathophysiology of GI and liver diseases for a more rewarding outcome. I would like to request all of you to please reach out to me with any new ideas for a focused conference within the scope of GIL where APS will also provide additional resources, including planning and marketing.

It was great to see many of you at our annual banquet in Philadelphia, as this happens to be our most fun networking event where we celebrate the success of our trainees and senior physiologists and honor our award recipients. As promised at last year's banquet, to try to reduce our banquet cost, we are proud to say that our GIL banquet for the 2023 American Physiology Summit has been highly subsidized by a one-time, generous contribution from APS and our Section members. Despite high inflation and the location of our conference, we have been able to cut down the ticket price for senior members to \$50 (from last year's \$95), and the price for the trainees will be only \$25 (compared to last year's price of \$40).

I am also extremely thankful to our highly talented steering committee members and the subcommittee leaders for their contributions to GI-Liver programming, awards, trainee symposium and their representation on APS committees. Once again, I urge you all to please persuade all your physiology colleagues at your local institutions who are not yet APS members to learn about the benefits of APS membership and the role of our section in the career growth of all involved in GI-Liver research. Last but not least, I urge you all to please continue to support your section. I wish you all a very happy and healthy 2023 and look forward to seeing you all in person for an outstanding Summit.

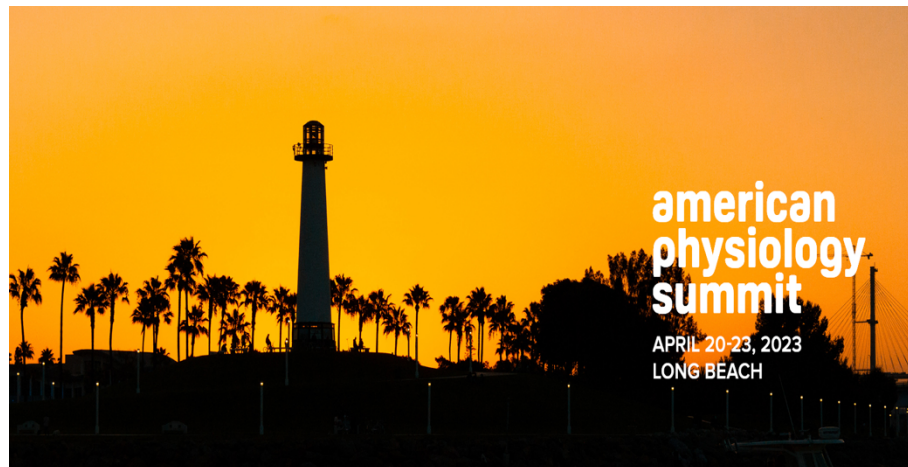
Log in to My APS Hubs
to subscribe to section, committee
and group announcements.





Contents

1. Greeting from GI-Liver Section Chair
2. APS GI-Liver Section 2022/2023
Award Recipients
3. American Physiology Summit 2023
4. APS Summit GI-Liver Section Banquet
5. Trainees Corner (2022 Fall Newsletter)
6. Opening for a Trainee Representative
7. APS Career Gateway, a New APS Resource
for All
8. Future APS Events and Meetings



2022-2023 Awardees

Recipients of the Horace Davenport Distinguished Lectureship of the APS Gastrointestinal & Liver Physiology Section



2022 Awardee
Sean P. Colgan, PhD

University of Colorado Anschutz Medical Campus, Aurora



2023 Awardee
James R. Goldenring, MD, PhD

Vanderbilt University Medical Center, Nashville, Tennessee

Recipients of the Gastrointestinal & Physiology Section New Investigator Award



2022 Awardee
Kathryn Hamilton, PhD

Children's Hospital of Philadelphia



**Distinguished Research Award of the Gastrointestinal & Liver Physiology Section (GI&L)
(formerly Takeda Distinguished Research Award)**

2022 Awardee

Keith A. Sharkey, PhD

University of Calgary, Canada



2023 Awardee

Beth McCormick, PhD

University of Massachusetts

**Recipients of the Gastrointestinal & Physiology Section
New Investigator Award**



2023 Awardee

Izumi Kaji, PhD

Vanderbilt University Medical Center, Nashville, Tennessee

**Gastrointestinal & Liver Physiology Section (GIL) Steven M.
Horvath Research Recognition Award
2022 Awardee**

Kibrom Meles Alula

University of Colorado Anschutz Medical Campus, Aurora



2023 Awardee

Janiece Glover



**Gastrointestinal & Liver Physiology Section
Physiological Reports Abstract Award**

2022 Awardee

Haque Parsa

University of Colorado Anschutz Medical Campus, Aurora, Co.



Gastrointestinal & Liver Physiology Section (GIL) Research Recognition Award

2022 Awardees

Sara Alonso

Rutgers, The State University of New Jersey, Newark, NJ



Jessica Kathleen Bernard

University of Southern California, Glendale, Ca.



Pritha Chatterjee

University of California, Riverside, Ca.



Natasha Golovchenko

Rutgers New Jersey Medical School, Newark, NJ



Ngoc Hoang

University of Mississippi Medical Center, Flowood, Ms.



Dulari Jayawardena

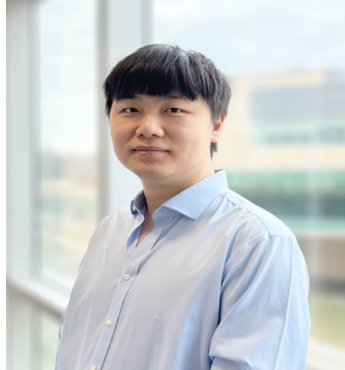
University of Illinois at Chicago, Chicago, Il.



Gastrointestinal & Liver Physiology Section (GIL) Research Recognition Award

2023 Awardees

Weilun Ai, VA Nebraska-Western Iowa Health Care System



David Buckley, The University of Texas at Arlington



Vinicus Canale, University of California, Riverside



Theodor Griggs, University of Illinois at Chicago



Hillman Lei, University of California, Riverside



Matt Tillman, Duke University School of Medicine, Durham, North Carolina



Yang Zhang, Oregon Health & Science University



Gastrointestinal & Liver Physiology Section Trainee Poster Award

2022 Awardees

Kristen Engevik, Baylor College of Medicine, Houston, Tx.



Janiece Glover, Medical College of South Carolina, Charleston, SC



Hillmin Lei, University of California, Riverside, Moreno Valley, Ca.



Goyal Award Recipients 2023

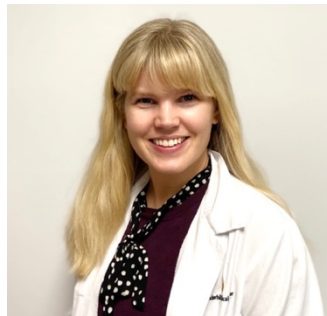
Kristen Engevik Speaker Baylor College of Medicine



Olivia Orahood SPEAKER University of California, Davis



Amy Engevik SPEAKER Medical University of South Carolina



Christopher Monti Medical College of Wisconsin



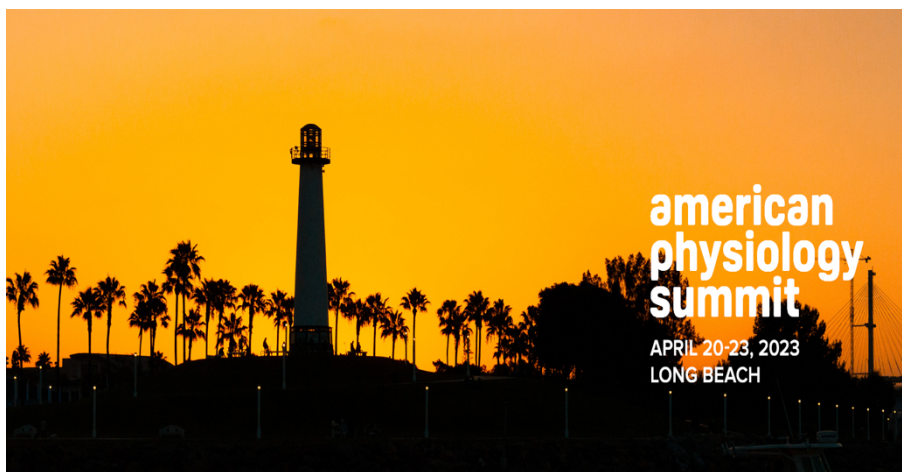


American Physiology Summit 2023

American Physiology Summit, the flagship annual meeting of the American Physiological Society (APS) will be held April 20–23, 2023, in Long Beach, California. The meeting will include an exciting lineup of experts presenting the latest science impacting our life and health.

The American Physiology Summit will include a keynote address by **David Julius, PhD**, the 2021 Nobel Laureate in Physiology or Medicine, and eight **game-changer sessions** featuring top scientists from around the world. In addition, 80 foundational science sessions will cover a wide range of topics, including:

- staying healthy during pregnancy,
- how exercise and diet affect cognition,
- the latest findings in exercise science,
- nutrition's role in health and disease,
- new ways to address disparities in research,
- how gender transition can affect health, and
- new insights into how our brain and gut communicate.



GI-Liver Program at the American Physiology Summit 2023

The American Physiology Summit brings exciting changes to the meeting schedule with significantly more GIL-related programming included in cross-sectional foundational science sessions.

Here is the lineup of must-attend events:



Friday, April 21

10:30 a.m.-12 p.m. Horace W. Davenport Distinguished Lecture, Seaside Ballroom

1:30-3 p.m. From Human to Superhuman: The Influence of the Gut Microbiota on Human Physiology, Grand Ballroom II

3:30-5 p.m. Using Multi-omics to Understand GI Physiology and Disease, Room 202

Saturday, April 22

10:30 a.m.-12 p.m. State of the Art Discussion on Mechanism of Host-microbiota Contributions to Health and Disease, Room 103

1:30-3 p.m. Crosstalk between the Intestinal Epithelium and the Endocrine System in the Pathogenesis and Treatment of Metabolic Diseases, Room 201B

3:15-4 p.m. APS GIL John Forte Session - Trainee Flash Talks, PhysioHub

3:30-5 p.m. Crosstalk and Microbiome in Epithelial Organs, Grand Ballroom I

Sunday, April 23

9-10:30 a.m. Bi-directional Gut-brain Communication: The Role of Stress, Inflammation, Pain and Environmental Exposures, Seaside Ballroom

1-2:30 p.m. Emerging Multi-functional Roles of Peripheral Serotonin in Health and GI Disease, Room 201A

Don't forget that the planning of the next Summit starts right after the April meeting! If you have a great idea for GIL-specific or cross-sectional programming, please reach out to [Karen Edelblum](#) and we'll help you craft your programming proposal. Early-career investigators and trainees, we want to hear all your programming ideas.



Gastrointestinal and Liver Section Banquet

Where

HYATT HOTEL, BEACON B BALLROOM, 4TH FLOOR

200 South Pine Avenue, Long Beach, California, United States, 90802

Section events are held in conjunction with the American Physiological Society (APS) annual meeting at the Summit, which will be held April 20-23, 2023. Learn more and register at [American Physiology Summit](#)

When

APRIL 22, 2023

7 p.m. Cocktails and passed hors d'oeuvres.

8 p.m. Dinner (menu below)

Tickets

\$50 faculty and guests

\$25 trainees (undergraduate/graduate students, postdoctoral researchers, lab personnel)

Deadline for ticket purchase and meal selection

April 1, 2023

Purchase Tickets at:

<https://ebus.physiology.org/PersonifyEbusiness/APSSStore/Banquet>

Tickets are only available for purchase online and are sold on a first-come, first-served basis. We encourage you to purchase your tickets early.

DIETARY RESTRICTIONS

Please contact the banquet organizer if you have any dietary restrictions (e.g. vegan or gluten-free).

QUESTIONS?

Contact Kate Hamilton at hamiltonk1@chop.edu or Ann Marie Bocus, APS Sections Administrator, at abocus@physiology.org.



Gastrointestinal and Liver Section Banquet Menu

Passed Hors d'oeuvres

MUSHROOM STUFFED WITH SPINACH AND FETA

VEGETABLE LUMPIA WITH SWEET CHILI SAUCE

COCONUT SHRIMP

BACON WRAPPED BLUE CHEESE STUFFED DATE

Salad

LOCAL BABY KALE SALAD

Pomegranate, Goat Cheese, Candied Pecans and Balsamic Vinaigrette

Entree (choice of)

PAN ROASTED CHICKEN

Caramelized Shallot Mash, White and Green Asparagus and Thyme Chicken Jus

ROASTED SEA BASS

Creamy Herbed Polenta, Ratatouille and Pesto Sauce

GRILLED BBQ CAULIFLOWER STEAK (GF & VEGAN)

Roasted Red Skin Potatoes, Corn Salsa and Pickled Red Onion

Dessert Station

NEW YORK STYLE CHEESECAKE

SEASONAL FRUIT

COFFEE AND HOT TEA

Open Bar (7-10 p.m.)

Trainee Advisory
GIL SubCommittee

Fall 2022 GIL Trainee Newsletter



american
physiological
society



Preparing for the APS Summit in Long Beach

What is the APS Summit?

By Gabby Dillion



As the American Physiological Society (APS) turns 160 years old, the Society is breaking out with its very own American Physiology Summit designed with YOU in mind!

The meeting is hand-crafted by physiologists worldwide to include events centered around novel scientific updates, professional development and social networking. If you have a passion for physiology, this a meeting you will not want to miss.

The Summit will begin with a prestigious keynote lecture given by 2021 Nobel Laureate David Julius, PhD. The rest of the programming will be filled with eight Game Changer sessions and 80 foundational science sessions.

Between sessions, there will be plenty of opportunities for networking. Make sure to stop by and hang out at the PhysioHUB, and do not forget to enjoy some wine and cheese at poster sessions!

Submit your abstract by December 8, 2022.

[physiology.org/Summit](https://www.physiology.org/Summit)

**Abstract Submission Deadline
December 8, 2022, 11:59 p.m. EST**

Reasons to Attend a Conference:

By Chris Klemens, PhD



With the upcoming inaugural APS Summit Conference, it's important to keep in mind the many important reasons you should attend!

Scientific Development:

- Presenting your research as oral talks and poster presentations is a critical element of developing as a scientist and a skill you will need to hone throughout your entire career. Attending a conference allows you to interact with researchers outside of your department and immediate field. The questions from these colleagues help develop your presentation skills since they are unfamiliar with the work of your PI or your specific techniques/niche topic.
- Interacting with other researchers is invaluable in unquantifiable ways. They might give you suggestions to improve your work, ask an insightful question that leads you to a whole novel line of experimental inquiry, help you understand what questions you might get from reviewers when you submit your paper for publication, provide solutions to a technical issue you've been wrestling with for months and so much more.
- Learning how to tailor your presentation to different audiences is a skill that you develop as you interact with increasingly diverse audiences, and conferences are a perfect sample population for different kinds of listeners.

Reasons to Attend a Conference Continued

Career Development:

- Career workshops are a major feature of most conferences and will expose you to many useful ways to develop as well as inform you about career opportunities outside of academia and provide tools to succeed as you move up the career ladder.
- Gaining visibility is incredibly important to your career development. As scientists participating on award and grant panels, others are more likely to remember your science if they have seen you present in person.
- Learn new techniques by attending cutting-edge methodology sessions and going through the vendor sponsor tables.

Networking:

- Build lasting relationships with other trainees and mentors through basic interactions. You will be amazed how often someone you meet today will pop up later in your career. For many of us, conferences are more than just educational opportunities, they are social events to catch up with our science colleagues.
- Section banquets at APS meetings are an excellent way to increase your scientific network, and many feature trainee-specific events to help you meet important researchers in your field.

Bonus Features

- Science swag will jazz up your desk and bring you joy
- You will never again run out of chip clips or reusable fabric bags
- Hit your daily step count without even trying
- Coffee, coffee, coffee!
- Develop new science heroes
- Free snacks
- Improve your navigational skills or make friends with strangers while getting lost
- Rock out with GI Distress at the new Trainee Bash
- See real live PIs “in the wild”



How to Craft a Strong Abstract

(Tips from someone who has judged APS conference abstracts)

By Bianca Quade, PhD

If you want to be selected to give a talk or receive an award at a conference, it is important to put a lot of care in writing your abstract. When applying for a trainee award, the abstract typically accounts for 70% of the grading criteria, with supporting documents making up the rest of the criteria.

There are **5 main components** of an outstanding conference abstract: hypothesis, approach, results, conclusion and significance.

Hypothesis: In concise terms, what is the goal of the project? What question does your work aim to answer?

For example, "This work aims to elucidate the role of X in the process of Y." or "We set out to find the players in the process of Z."

Approach: What methods did you use to answer your research question? What were the controls or additional methods used to validate that method?

For example, "X was measured using Y and compared those measurements to controls." or "[Genes] were measured using qPCR and expression was validated via western blot."

Results: What data did you obtain from the methods? If the data are quantitative, include statistics. Also, include number of replicates, p values, and the statistical measure used.

For example, "X was elevated 8-fold in the experimental group (n = 3), as compared to the control group (n = 3) [one-way ANOVA, $p < 0.05$]."

Conclusion: What does the data mean for your specific hypothesis?

For example, "These results indicate that [gene] plays an important role in the process of Z."

Significance: What potential impacts does this work have? Do the results inform something new in the field? Do the results go against a thought previously held in the field? Do the results point to a new pathway that could be targeted in a clinical setting?

For example, "This work changes the field's understanding of the process of Z." or "This work reveals a new target in potential therapeutic interventions for Z."

Pro-Tips:

1

The judges might not work in your exact field. Include any relevant background information that might be important to understanding your hypothesis.

2

Always define any acronyms or abbreviations; even if they seem obvious to you. If possible limit the use of acronyms.

3

Double check that all the authors and affiliations are correct.

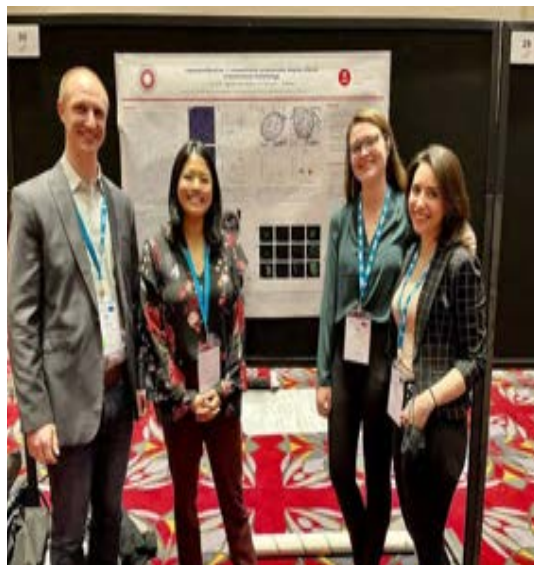
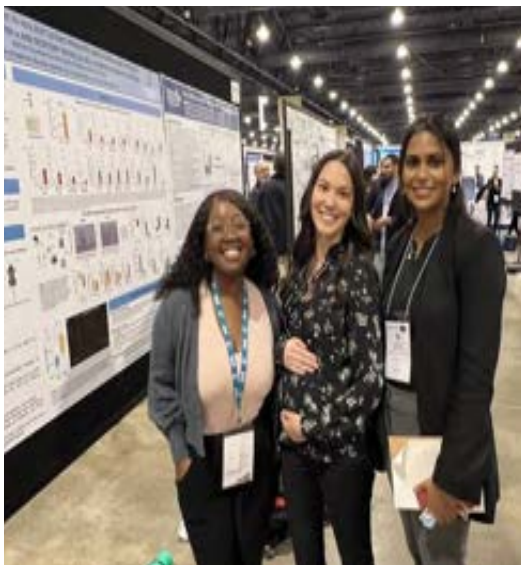
4

Make sure that your abstract is within the character limit.
Abstract Title: 175 characters MAX
Abstract Text: 3,000 characters MAX

5

Ensure your abstract title is clear and concise

Last Time at Experimental Biology 2022



Follow the GIL
Section on
Twitter:
[@GIL_Trainee](https://twitter.com/GIL_Trainee)

Post pictures and
updates with
[#GIL_Trainee](https://twitter.com/GIL_Trainee)

Want to compete for a poster award
at the GIL symposium?

Don't forget to apply for the Gastroin-
testinal & Liver Physiology Section
Trainee Poster Awards
Due December 15, 2022

*only applicants are eligible for poster
awards at the GIL symposium

AJP GI-trainees

“The Gastrointestinal and Liver (GIL) Physiology Section is accepting applications for a Trainee Representative.”

Sent on behalf of Amy Engevik:

The Gastrointestinal and Liver (GIL) Physiology Section is accepting applications for a Trainee Representative. The trainee representative will serve as a liaison with the Trainee Advisory Committee (TAC) and the GIL Steering Committee.

Please let any members of your labs know about this unique opportunity to become more involved with the GI&Liver section and the APS.

The trainee advisory committee aims to ensure that the interests of trainees are represented throughout the APS and works with staff to provide resources, training, and recognition to APS member trainees. The trainee advisory committee is composed of one trainee member selected by each section of the Society, plus a chairperson and meets quarterly to discuss projects aiming at improving trainee experience within the APS.

The open position commences immediately following the APS meeting in April, 2023 and is a 3 year commitment. Duties include: (1) organizing the GIL trainee symposium at the APS summit meeting, (2) assembling a biannual GIL trainee newsletter, (3) coordinate activities with other APS committees to design content to address the needs of trainees, (4) investigate the needs of trainees to determine how the society can provide necessary support and assistance, (5) welcome new trainee members on behalf of the society and section and provide information on society benefits and activities for trainees, (6) select the Dale Benos early career profession service award, and (7) oversee the graduate student ambassador program.

To be eligible, you must have a primary affiliation with the Gastrointestinal and Liver Physiology Section and you must commit to serving the full 3 year term and attending the APS summit annual meeting.

Applications are due March 17, 2023

If you would like to apply for the position, please fill out the google form: <https://forms.gle/CXjdNq9AVXNaHUBh8> containing the following information:

1. Biosketch or CV
2. Please explain your interest in serving as the GIL trainee advisory committee representative
3. Personal Statement including special qualifications for serving as the GIL TAC representative
4. Ideas/projects to improve GIL and APS trainee experience

Welcome to the APS Career Gateway

<https://www.physiology.org/professional-development/career/career-gateway?SSO=Y&zs=CNHNW&zl=C0rQ3>



A successful scientific career requires more than just scientific expertise. To maximize a career in science, investigators, clinicians and educators need a well-rounded professional skill set, including leadership, management and intentional career planning. The APS Career Gateway provides physiologists professional development for every step of their career journey.



Future American Physiology Summit

2023 Conference

American Physiology Summit

April 20–23, 2023

Long Beach, California

2024 Conference

American Physiology Summit

April 4–7, 2024

Long Beach, California

2025 Conference

American Physiology Summit

April 24–27, 2025

Baltimore, Maryland

2026 Conference

American Physiology Summit

April 23–26, 2026

Minneapolis, Minnesota

2027

Conference

American Physiology Summit

April 1–4, 2027

Denver, Colorado

