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## Thank you to the 2024 Advanced Course Attendees!

The Advanced Course in Basic & Clinical Immunology, led by course directors Drs. Shiv Pillai and Terri Laufer, was held February 4-7, 2024, in La Jolla, California. Attendees engaged with course faculty and other registrants during the receptions, meals, and other networking opportunities peppered throughout the course agenda.



The small group, casual setting facilitated learning both in and outside of the classroom. In addition to focusing on the fundamentals of clinical immunology, the content featured proposed therapeutics, diagnostic tools, and research implications. *Feedback from 2024 Attendees:*

- *"It was an entire course on immunology in just 3 days with fantastic faculty, the perfect amount of information and time spent in class. I was genuinely excited to go to class each morning, and thoroughly enjoyed each lecture."*
- *"The course is detailed with up to date material, starting with basic principles to translational issues in clinical immunology."*
- *"I liked the broad spectrum of topics, as well as the opportunity to get to know the faculty during breaks."*
- *"The course was multifaceted, comprehensive, and not too deep."*
- *"The course highlighted to me that it is crucial to keep myself up to date on immunology topics I am not focusing on during my daily work."*

FOCIS thanks [BioLegend](#) for sponsoring the 2024 Advanced Course in Basic & Clinical Immunology. Course attendees were treated to a visit to the BioLegend corporate facility in San Diego, where they learned about the company's technologies, including custom tools and services for clinical trials, and were taken on a campus tour. The event culminated with a networking reception, where attendees mingled and were treated to handmade sushi prepared by BioLegend's in-house chefs.



## FCE and IUIS Travel Award Recipients

### 2024 U.S. Advanced Course - FCE Travel Award Recipients

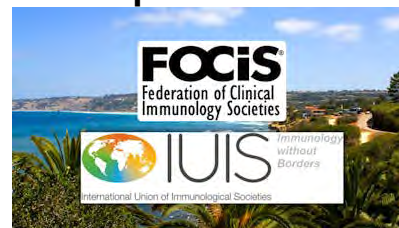
Thank you to the [FOCIS Centers of Excellence \(FCEs\)](#) who nominated trainees to receive FCE Travel Awards to attend the 2024 [Advanced Course in Basic and Clinical Immunology](#), that took place February 4–7, 2024, in La Jolla, CA.

[Read the full list of winners here >>](#)



### 2024 U.S. Advanced Course - IUIS Travel Awards Recipients

FOCIS and the IUIS Gender Equality and Career Development Committee (GEC) co-sponsor four trainees from the developing world to attend the 2024 Advanced Course in Basic and Clinical Immunology.



Congratulations to the four travel award recipients!

[See the full list of recipients here >>](#)



## FOCIS 2024 Annual Meeting - All you need to know

### FOCIS 2024 Registration is Open!

FOCIS is THE meeting in translational immunology that will give you a competitive edge in your career. Stay ahead of the curve with leading clinicians and researchers delivering the latest breakthroughs across immune-mediated diseases.

Join us in San Francisco June 18-21, 2024, at the San Francisco Marriott Marquis for the FOCIS 2024 Annual Meeting.

[Register Now](#)

[FOCIS 2024 Annual Meeting Hotel](#)

**San Francisco Marriott Marquis**  
780 Mission St, San Francisco, CA 94103

*Discounted room rates are available until May 26, 2024, or until the FOCIS room block fills.*

[Check out the Hotel rates here.](#)



**Make Your Accommodations Today**

## Submit a Late Breaking Abstract to FOCIS 2024

You're invited to submit a late-breaking abstract to the FOCIS 2024 Annual Meeting! Late-breaking abstract submissions will be accepted from February 7th through April 3rd, 2024.

Late-breaking submissions are eligible for the late-breaking oral abstract session as well as a poster presentation.

Application instructions can be found here: [Abstract FAQ](#)

## 2024 ABSTRACT TOPICS

**LATE BREAKING: Submissions Due April 3, 2024**

- Allergy:** Asthma, Food Allergy, Eosinophilic Gastrointestinal Disease, Eczema
- Autoimmune Diseases:** Rheumatologic Diseases, General Autoimmunity, Diabetes and Other Autoimmune Endocrine Diseases, Autoimmune Hematologic Diseases, Autoimmune Skin Disease, Uveitis
- Autoinflammatory Diseases:** Eye, Skin, GI Tract, Systemic
- Basic Science of Immunology - Adaptive Immunity:** B Cells, Crosstalk, Signaling, T Cells
- Basic Science of Immunology - Innate Immunity:** Crosstalk, Cytokines/Chemokines, Innate Cells, Signaling
- Immuno-engineering and Cellular Therapies:** Biospecifics, CAR-T and NK Cells, Gene Therapy, Nanoparticles, TCR T Cells, TILs, Regulatory T Cells, Regulatory APC, Organoid Models
- Immunology:** Checkpoint Therapy, Immune Monitoring, Vaccines
- Immunogenetics:** Epigenetics, Immunodeficiency: Primary or Acquired, Immune Dysregulation Disorders
- Immunology Across the Ages:** Immunology of Aging, Newborn Immunology, Inflammaging
- Immunometabolism**
- Infectious Diseases:** Vaccines, Host-pathogen Responses, COVID-19, Post-infection Outcomes, Treatment
- Mucosal Immunology:** Microbiome, Immunology of the Gastrointestinal Tract, IBD
- Neuroimmunology**
- Reproductive Immunology:** Maternal/Fetal Immunology, Immunology of Pregnancy Loss
- Stem Cell and Organ Transplantation:** GvHD, Rejection, Biologics
- Systems Immunology:** Molecular Networks, Cell-cell Interactomes, Multi-omic Tools, AI in Imaging, Structural Immunology, Correlates of Immunity, Single Cell

**Submit Abstract**



## Plenary and Thematic Session Schedule

### FOCIS 2024 PLENARY SESSIONS

#### Wednesday, June 19, 2024

8:00 AM – 9:30 AM

Novel Pathways and Approaches in  
Allergic Disease

10:00 AM – 11:30 AM

Precision Therapeutics in Mucosal  
Disorders

#### Thursday, June 20, 2024

8:00 AM – 9:30 AM

Neuroimmunology

10:00 AM – 11:30 AM

Immunology in Reproductive Health

#### Friday, June 21, 2024

8:00 AM – 9:30 AM

Somatic Mosaicism, Clonal Populations,  
and Immune Disorders

10:00 AM – 11:30 AM

Mechanisms & Treatment of Autoimmunity

### FOCIS 2024 THEMATIC SESSIONS

#### Wednesday, June 19, 2024

1:00 PM – 2:45 PM:

Inborn Errors of Immunity

Immune Responses to GT/Therapeutics

Systems Immunology & AI

#### Thursday, June 20, 2024

1:00 PM – 2:45 PM:

Organoid Modeling & Therapeutics

Cellular & Stem Cell Therapeutics

Host Defense and Vaccinology

#### Friday, June 21, 2024

1:00 PM – 2:45 PM:

Metabolic Regulation of Inflammation

Immuno-oncology

Behavioral Immunology

Register Now

## FOCIS Basic-To-Go Course



[FOCIS offers a basic immunology course that can be brought to workplaces.](#)

The Basic Immunology To-go Course is designed to teach the principles of immunology to teams with various levels of scientific knowledge.

It provides an up-to-date review of the immune system and its functions, as well as the potential complications of drugs in the immune/inflammatory disease field. The course can be customized to specific needs and drug development areas.

Past customers give positive feedback and attendee evaluations prove its effectiveness in providing a basic understanding of immunology.

Overall, the course is recommended for those seeking an introduction to basic immunology principles and vocabulary.

Interested in boosting employee knowledge? Get a custom quote for your company using our online inquiry form.

Learn More

## Application Opportunities for Funding and Research



Virtually share your research with the FOCIS community and our industry partners.

There is no cost to apply, and the next application deadline is **Friday, March 1, 2024**.

[Learn more here>>](#)

FOCIS and The Transplantation Society (TTS) will jointly provide two International Basic and Translational Science Mentee-Mentor Awards to attend the TTS 2024 Congress.

The travel awards will recognize the efforts of young investigators who are advancing their understanding of basic and translational science.

The award application deadline is **April 26, 2024**. The award recipients must be active members of both FOCIS and TTS.

[Learn more here>>](#)

**TTS 2024** ISTANBUL, TURKEY  
September 22-25  
30th International Congress of The Transplantation Society

**2024**  
**MENTEE-MENTOR**  
**AWARDS**

**FOCIS**  
Federation of Clinical  
Immunology Societies  
www.focis.org

The Transplantation Society in collaboration with the **Federation of Clinical Immunology Societies (FOCIS)**, acknowledges the contribution of basic science to the field of transplantation by offering Mentee-Mentor awards.

International Basic and Translational Science Mentee-Mentor Awards' aim is to encourage young investigators to submit their research to TTS 2024 and help cover expenses to attend the Congress in Istanbul.

For more information about the awards and eligibility, visit our website at [www.tts.org/mentee-mentor-awards](http://www.tts.org/mentee-mentor-awards).

**AWARD APPLICATION DEADLINE**  
**APRIL 26, 2024**

**TTS 2024 CALL FOR ABSTRACTS**  
ABSTRACT SUBMISSION DEADLINE: March 18, 2024  
[www.tts2024.org/program/call-for-abstracts](http://www.tts2024.org/program/call-for-abstracts)

## MEETINGS ENDORSED & SPONSORED BY



FOCIS welcomes the opportunity to collaborate with other organizations that share a similar mission to advance the field of clinical immunology.

The next deadline is **Tuesday, April 30.**

[Learn more here>>](#)

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### Exciting News from the FOCIS FCE Community



CENTERS of  
**EXCELLENCE**

Stay up to date with the latest news and updates from our FCEs!

#### FOCIS FCE: Benaroya Research Institute

Benaroya Research Institute Immunologist John Ray Receives 2023 NIH Director's New Innovator Award



Benaroya Research Institute (BRI) Assistant Member John Ray, PhD, has been selected as a recipient of the 2023 NIH Director's New Innovator Award, a part of the High-Risk, High-Reward Research program which funds exceptionally creative, high-risk, high-impact biomedical and behavioral research. Ray's work focuses on identifying and characterizing the genetic variants that contribute to autoimmune disease.



This award will allow Ray to expand on his prior research, wherein he and his team defined methods to prioritize genetic variants most likely to drive risk in multiple sclerosis (MS) and other autoimmune diseases. Now, Ray seeks to identify variants in non-coding regulatory regions that work independently and collectively to alter the function of primary human T-cells.

Then, he plans to relate these data to T-cell responses and disease severity in a large cohort of MS patients. If successful, this work will take the first leap in directly linking hundreds of risk loci to a cellular function in human primary cells and it will provide insight into how genetic factors promote disease risk and severity.

### **FOCIS FCE: University of Colorado Anschutz Medical Campus**

#### **Novel IEI as the cover of JEM issue**

Lui et al., they describe a new inborn error of immunity due to a hypomorphic LCK mutation c.1318C>T; P440S in 2 siblings presenting w/ severe T cell lymphopenia and intestinal inflammation.

This is a multispectral image of the colon of mice bearing the human homolog LCK variant P440S.



## FOCIS FCE: University of Florida

### JCI insight

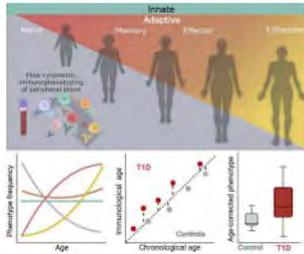
Human immune phenotyping reveals accelerated aging in type 1 diabetes

Melanie R. Shapiro, ... , Rhonda Bacher, Todd M. Brusko

JCI Insight. 2023;8(17):e170767. <https://doi.org/10.1172/jci.insight.170767>.

Research Article Immunology

Graphical abstract



A recent publication by the University of Florida FCE members: "Human immune phenotyping reveals accelerated aging in type 1 diabetes"

Click here to view the publication PDF ([link PDF](#) and add to website backend to open like PDF) or view the publication on PubMed here: <https://pubmed.ncbi.nlm.nih.gov/37498686/>

## FOCIS FCE: King's College London

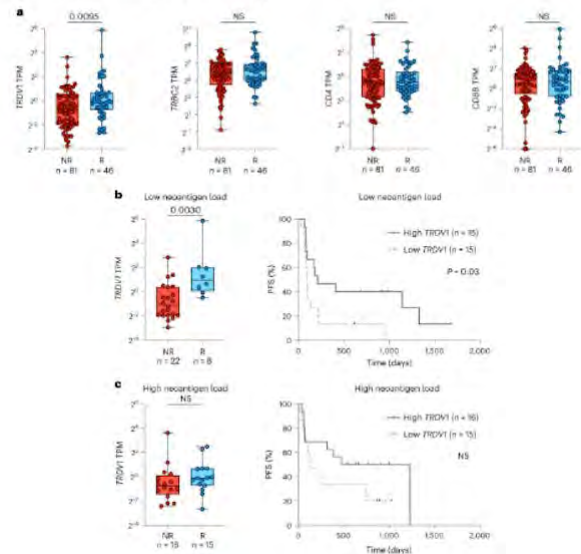
### Gamma-delta T cells regulated by PD-1

Adrian Hayday and Yin Wu published the first direct evidence that V-delta-1 gamma-delta T cells, which have recently been implicated in tumour immunosurveillance in multiple human cancers, are regulated by the PD-1 checkpoint. They also show that these cells are predictive of immune checkpoint blockade response, especially in the setting of low neoantigens.

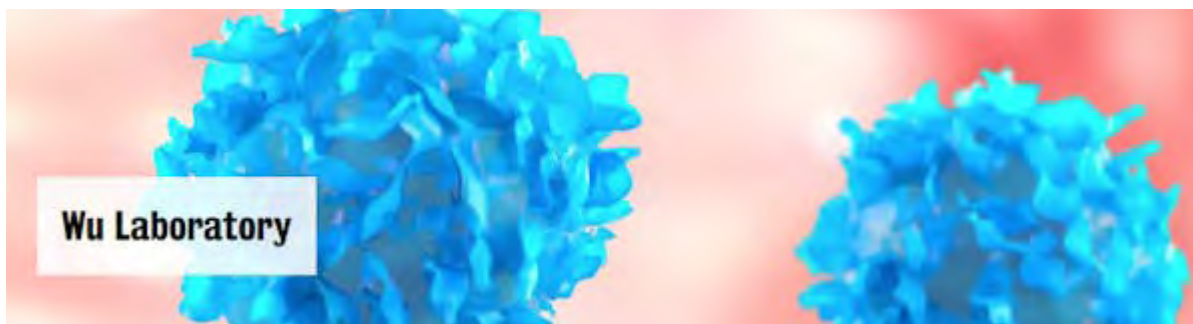
Read the full publication

here: <https://www.nature.com/articles/s43018-023-00690-0>

Fig. 1: Transcriptomic presence of Vδ1<sup>+</sup> cells within melanoma predicts the response to anti-PD-1 and anti-PD-L1 CPI therapy.



Would you like more details regarding King's College London? Visit their lab page here: <https://www.kcl.ac.uk/research/wu-laboratory>

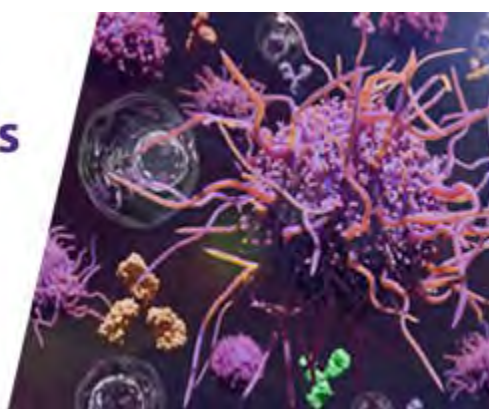


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## Sponsor Spotlight

### Explore an Expanding Portfolio of ASR Antibodies for Flow Cytometry

Learn more ►



#### Unparalleled Quality for Immunology Breakthroughs

BioLegend was created by scientists for scientists. And, for over 20 years, we have created world-class, cutting-edge antibodies and reagents across a diverse set of applications—from flow cytometry to immunoassays to multiomics. By partnering with premier research institutions, biotechnology companies, and pharmaceutical companies, we are accelerating scientific discovery by providing high-quality, purpose-driven products at an outstanding value.

We are consistently expanding our product offerings to researchers and scientists to advance in all branches of immunology. In particular, we have significantly expanded our GMP as well as ASR reagents for scientists that require an extra level of documentation, traceability, and quality. In addition to our ASR portfolio, our GMP-RUO flow cytometry antibodies are developed to build high-level multicolor panels for full phenotyping of cell populations. Our new line of GMP Cell-Vive™ reagents provide flexibility for cell culturing and staining. The Cell-Vive™ portfolio includes xeno-free serum substitutes, chemically-defined buffers, and cell cryopreservation solutions, providing customers with products tailored to every step of their bioprocessing workflow. We also provide an expansive list of GMP recombinant proteins fully designed to support bioassays for cell culturing, differentiation, and activation. All of these reagents are produced in our state-of-the-art ISO 13485 and MDSAP-certified GMP facility.



With over 30,000 trusted reagents, 100,000+ citations, and a dedicated custom solutions team, we are covering every research area with our expertise. Discover the BioLegend difference to see how we can make an impact in your lab.

[Learn More](#)

## 2024 BD-FOCIS China Advanced Course

The **BD-FOCIS China Advance Course** was of massive interest to the Chinese scientific community. This course included 17 speakers from 6 countries and was held in the Biomedical Science Building of Tsinghua University.



Cutting-edge themes were taught and discussed during the course, such as research on SARS-CoV-2 vaccines and therapies, cancer immunotherapies, bacteria immune evasion, allergy, autoimmunity, immune tolerance and transplantation, flow cytometry high dimensional platforms, immunopharmacology, among others. Furthermore, this course allowed the establishment of new collaborations and is expected to encourage the incorporation of new FOCIS members from China and other countries. This advanced course was made possible thanks to the contribution of the FOCIS Educational Committee, where Drs. Alexis Kalergis, Ignacio Anegón, and Stephanie Eisenbarth played a key role in the program organization, as did Dr. Linqi Zhang from Tsinghua University. The course was sponsored by the generous support of [Becton Dickinson China](#) and was hosted by Tsinghua University. The strong support provided by the FOCIS executive team, especially by Lori Conaway, FOCIS Director of Programs, was fundamental to successfully carrying out the course.



*This course would not have been successful without BD-Biosciences! A huge thank you to BD for sponsoring the BD-FOCIS Advanced Course in Basic and Translational Immunology!*



Check out our highlights video below!



## FOCIS Highlights in *Science Immunology*

# Science Immunology

AAAS

In every issue of *Science Immunology*, FOCIS publishes exceptional and interesting immunological research articles. The free articles are published under the 'Editors' Choice' article category. Browse and read the recent Editors' Choice articles linked below.

*Science Immunology* is a monthly, online-only, peer-reviewed research journal designed to facilitate understanding of the immune system by showcasing innovative advances in the expanding field of immunology, drawing from studies in all organisms and model systems including humans.

**VOLUME 8 | ISSUE 90 | DEC 2023**

### [CD8 Tregs SQA-1shing transplant rejection](#)

BY NATHAN A. BRACEY, JONATHAN S. MALTZMAN

MHC-E restricted CD8+ regulatory T cells have a restricted TCR repertoire and eliminate pathogenic CD4 T cells to mediate immune responses.

[Listen to your gut: Antibodies against gut commensals predict type 1 diabetes onset and therapeutic responses to T cell modulation](#)

BY RACHAEL A. CLARK

Immune responses to gut bacteria are associated with development of type 1 diabetes and predict the effectiveness of teplizumab, an anti-CD3 antibody, in delaying diabetes onset.

**VOLUME 9 | ISSUE 91 | JAN 2024**

[In a wild germinal center, what determines survival of the fittest?](#)

BY EMILY M. FLOWERS, STEPHANIE C. EISENBARTH

Mice with natural BCR frequencies have plasma cells enriched for high-affinity clones, but high-affinity clones persist in the germinal center, leaving the rules for plasma cell selection still murky.

[IL-10mpting TH17 cell fate in the gut](#)

BY SARAH MANN DANIELSON, KRISTINE A. KUHN

Interleukin-10 mediates regulatory functions of commensal-specific TH17 cells in murine small intestine.

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**FOCIS Upcoming Community Events**



[The Promise of Interleukin-2 Therapy](#)

**Wednesday, September 4, 2024 – Saturday, September 7, 2024**  
**International Conference Center at Sorbonne University**

The 3<sup>rd</sup> edition of “The Promise of Interleukin-2 Therapy” will take place from September 4<sup>th</sup> to 7<sup>th</sup>, 2024, at the International Conference Center at Sorbonne University, located in the heart of Paris. Take advantage of the early bird registration: <https://www.il-2-2024.com>. The Organizing Committee would be delighted to receive your abstract which can be completed online: <https://www.il-2-2024.com/abstract-submission>. Please note that the deadline for abstract submission is June 15<sup>th</sup>, 2024.



**TTS2024** **ISTANBUL TURKEY**  
September 22-25

[TTS 2024: The 30th International Congress of The Transplantation Society](#)

**Sunday, September 22, 2024 – Wednesday, September 25, 2024**  
**The Istanbul Congress Center (ICC), Istanbul, Turkey.**

Their inaugural lineup of Thematic Session speakers represents the forefront of transplantation research and practice. Engage with trailblazing minds, gain insights, and explore cutting-edge advancements in the field. Don't miss this unparalleled opportunity at TTS 2024! Find more information here: <https://tts2024.org/>

### FOCIS Related Events

## Exhibits and Sponsorship



★ FOCIS 2024 ANNUAL MEETING

# SECURE YOUR BOOTH TODAY

Get your booth now to take advantage of this exceptional chance to connect with a variety of specialists in one place!

- ✓ Free Exhibitor Badges
- ✓ Lead Retrieval Units
- ✓ Promoted in Program

## Secure Your Spot in the Exhibit Hall

We invite you to exhibit at the premier meeting in translational immunology. Join us for [FOCIS 2024](#) in San Francisco to gain access to over 950 leading scientists and researchers in translational immunology from around the globe. All coffee breaks and poster receptions are held in the exhibit hall, giving your exhibit booth great exposure and access to attendees.

Purchase your booth today and take advantage of this unique opportunity to reach various specialties in one location and enjoy nearly 4 hours of unopposed Exhibit Hall/Poster Presentation time!

**Reserve Your Booth Today**

### **Advance Your Marketing Goals at FOCIS 2024**

Join us at [FOCIS 2024](#) and showcase your products and services to an interdisciplinary group of immunologists you cannot find at any other meeting.

From session sponsorship to industry tutorials to trainee travel awards, FOCIS offers a variety of [visibility opportunities](#) to advance your marketing goals.

Explore our [sponsorship and exhibitor opportunities](#) to learn how you can boost visibility, educate key stakeholders, and provide a return on your investment.

**Explore Sponsorship Opportunities**



**Federation of Clinical Immunology Societies (FOCIS)**

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