Advances in Immunoengineering: Fundamentals and Cutting Edge Advances

Tuesdays and Thursdays
January 4 - 27, 2022

INTERNET LIVE CONFERENCE

Presented by
The Johns Hopkins Translational ImmunoEngineering (JH-TIE) Center
An NIBIB National Center for Biomedical Imaging and Bioengineering
The Johns Hopkins Translational Tissue Engineering Center (TTEC)
The Johns Hopkins University Institute for NanoBioTechnology (INBT)

This activity has been approved for AMA PRA Category 1 Credits™.
DESCRIPTION
The field of immunoengineering combines the diverse and complex fields of engineering and immunology and is transforming patient treatment in cancer, autoimmunity, regeneration, and transplantation.

There is a significant need for training of engineers in immunology and for training immunologists in quantitative engineering techniques.

Moreover, there is need to bridge basic immunological discoveries with advances in clinical application. This course will review the fundamentals of the immune system and its components, engineering strategies to modulate the immune system, and clinical applications to improve patient care and outcomes in the development of neoadjuvant immunotherapies, highlighting particular considerations for immunological mechanisms, clinical development, and pathologic response assessments.

WHO SHOULD ATTEND
The course is designed for graduate students, medical students, residents, and fellows in engineering, immunology, and related fields. Engineering and clinical faculty and members of industry will benefit from the course as well.

OBJECTIVES
After attending this activity, the learner will demonstrate the ability to:

● Review the fundamentals and recent discoveries in the function of the immune system.

● Identify engineering strategies to manipulate the immune system.

● Describe the clinical applications of immunoengineering.

ACCREDITATION STATEMENT
The Johns Hopkins University School of Medicine is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

CREDIT DESIGNATION STATEMENT
The Johns Hopkins University School of Medicine designates this live activity for a maximum of 12 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

OTHER CREDITS
American Academy of Nurse Practitioners National Certification Program accepts AMA PRA Category 1 Credit™ from organizations accredited by the ACCME.

American Nurses Credentialing Center (ANCC) accepts AMA PRA Category 1 Credit™ from organizations accredited by the ACCME.

National Commission on Certification of Physician Assistants (NCCPA) PAs may claim a maximum of 12 Category 1 credits for completing this activity. NCCPA accepts AMA PRA Category 1 Credit™ from organizations accredited by ACCME or a recognized state medical society.

The Johns Hopkins University has approved this activity for 12 contact hours for non-physicians.

POLICY ON PRESENTER AND PROVIDER DISCLOSURE
It is the policy of the Johns Hopkins School of Medicine that the presenter and provider globally disclose conflicts of interest. The Johns Hopkins School of Medicine OCME has established policies that will identify and resolve conflicts of interest prior to this educational activity. Detailed disclosure will be made prior to presentation of the education.

JOHNS HOPKINS STATEMENT OF RESPONSIBILITY
The Johns Hopkins School of Medicine takes responsibility for the content, quality, and scientific integrity of this CME activity.

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DISCLAIMER STATEMENT
The opinions and recommendations expressed by faculty and other experts whose input is included in this program are their own. This enduring material is produced for educational purposes only. Use of Johns Hopkins School of Medicine name implies review of educational format design and approach. Please review the complete prescribing information of specific drugs or combination of drugs, including indications, contraindications, warnings and adverse effects before administering pharmacologic therapy to patients.

HARDWARE/SOFTWARE REQUIREMENTS
Internet connection.
FREE REGISTRATION

Registration Cutoff Date: December 30, 2021 | 5:00 p.m. ET
Register Online: hopkinscme.cloud-cme.com/default.aspx?P=5&EID=38555

Pre-registration is required by December 30, 2021. On the day of, please log into the online platform by 3:45 p.m. ET to test your connection. Exclusive log-in details will be provided via email the week prior.

You will receive a confirmation by e-mail. If you have not received it by December 30, 2021, call (410) 502-9636 to confirm that you are registered. A transcript of attendance will be available upon attestation of your credit hours and submission of the post activity online evaluation.

The Johns Hopkins University reserves the right to cancel or postpone any activity due to unforeseen circumstances. Under such circumstances registrants will be notified as soon as possible.

LATE FEE AND REFUND POLICY
A $25 late fee applies to registrations received after 5:00 p.m. ET on December 30, 2021.

SYLLABUS
The syllabus will be accessible online and via your mobile device in the CloudCME App prior to the activity.

HOW TO OBTAIN CREDIT
Post activity, an online evaluation will be available to attendees to evaluate the activity and individual presentations and to identify future educational needs. Upon completion of the evaluation, the learner must attest to the number of hours in attendance. Credits earned will be added to the learner’s transcript and immediately available for print. The last day to access the evaluation and attest to your credits is March 13, 2022.

An outcome survey will be sent to all physician attendees within two months post activity to assist us in determining what impact this activity had on the learner’s practice.

AMERICANS WITH DISABILITIES ACT
The Johns Hopkins School of Medicine fully complies with the legal requirements of the ADA and the rules and regulations thereof. Please notify us if you have any special needs.

TO REGISTER OR FOR FURTHER INFORMATION

Register Online: hopkinscme.cloud-cme.com/default.aspx?P=5&EID=38555

Register by Phone ............................................................. (410) 502-9636
Register by Fax ............................................................... (866) 510-7088
Confirmation/Certificates/Transcripts ................................ (410) 502-9636
General Information .......................................................... (410) 955-2959
E-mail the Office of CME ..................................................... cmenet@jhmi.edu

Follow us on Twitter: twitter.com/HopkinsCME
Facebook: facebook.com/HopkinsCME

For website and CloudCME mobile app technical difficulties, email: cmetechsupport@jhmi.edu
For general information, please visit the activity webpage at: https://hopkinscme.cloud-cme.com/aph.aspx?P=5&EID=38555

Visit our JH-TIE website: https://jhtie.jhmi.edu/upcoming-training-sessions/
**PROGRAM**

**Tuesdays and Thursdays** *January 4 - 27, 2022* *4:00 - 5:30 p.m. ET*

**Week 1 - T-Cell Engineering and Immunometabolism**

Tuesday, January 4, 2022  
Cassian Yee  
Kellie N. Smith

Thursday, January 6, 2022  
Pedro Romero  
Erika Pearce

**Week 2 - Regenerative Immunology and T Cell Programming**

Tuesday, January 11, 2022  
Stephen Badylak  
Jennifer Elisseeff

Thursday, January 13, 2022  
Gregg Delgoffee  
Jonathan Schneck

**Week 3 - Immunoengineering, Vaccine and Autoimmunity**

Tuesday, January 18, 2022  
Matthias Stephan  
Ankur Singh

Thursday, January 20, 2022  
Robert Seder  
Pere Santamaria

**Week 4 - Immunoengineering, Tissue Context, and Immunotherapies**

Tuesday, January 25, 2022  
David Mooney  
Megan Sykes

Thursday, January 27, 2022  
Donna Farber  
John Wherry

Presentation titles and other details can be found on the JH-TIE website: https://jhtie.jhmi.edu/.

You will receive an email notification to complete the evaluation form and to attest to the number of hours in attendance. The Johns Hopkins School of Medicine takes responsibility for the content, quality and scientific integrity of this CME activity. This schedule is subject to change.

**ACKNOWLEDGEMENT**

The Johns Hopkins School of Medicine did not solicit or receive commercial funding from any commercial entity, including pharmaceutical and medical device manufacturers, for this activity.

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