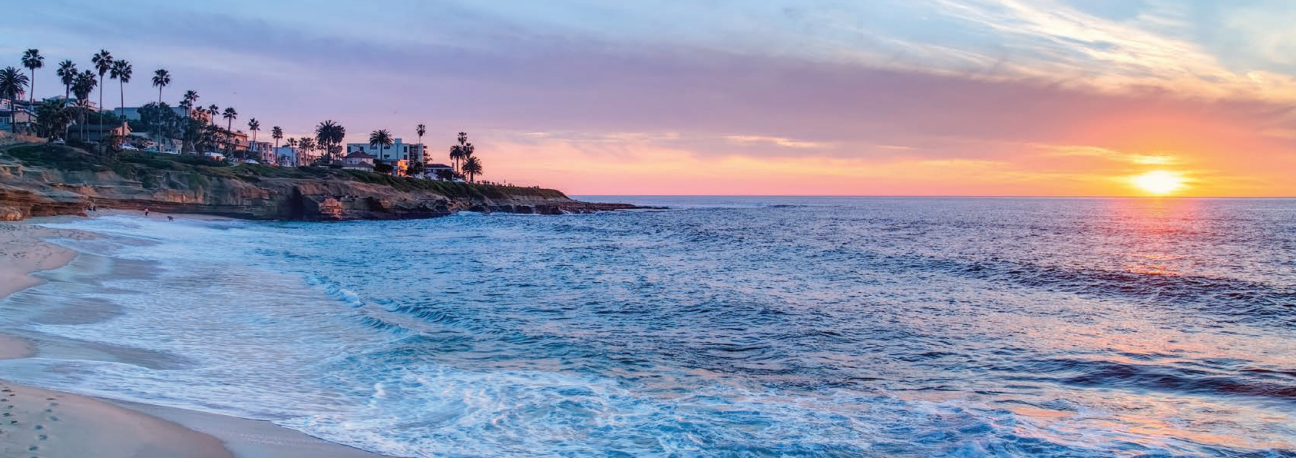
A background of a molecular structure with colorful spheres (red, blue, green, yellow) connected by thin rods, set against a gradient of purple and blue.

# Revolutionizing Transplantation:

## The Future of Genomics and Molecular Diagnostics in Organ Transplantation

October 19, 2024

San Diego Marriott • La Jolla, California  
Visit [www.scripps.org/organtransplantcme](http://www.scripps.org/organtransplantcme) for conference updates!



Advances in genomics and diagnostics are reshaping organ transplantation, promising improved patient outcomes. Current progress includes better immunosuppression, enhanced graft monitoring, and refined HLA typing for precise matches. However, new methods that spotlight viral surveillance and antibody monitoring, like donor-derived cell-free DNA analysis, are driving a transformative shift in transplant medicine.

Looking to the future, precision medicine brings the promise of tailored treatments to reduce rejection and optimize grafts, integrating biomarkers with AI for a personalized approach. Innovations in multi-organ preservation, regenerative medicine, and xenotransplantation are also emerging. This conference will gather experts to discuss these advancements, offering insights into the current and future state of genomics in transplantation.

### **Educational Objectives**

**After attending this live activity, participants should be able to:**

- Explore the transformative potential of genomics and diagnostics in multi-organ transplantation, focusing on the role of advanced techniques in tailoring immunosuppression management to individual patient needs for improved outcomes.
- Leverage genomic and diagnostic tools for precision medicine in transplantation to improve graft surveillance, detect complications early, and tailor treatments that minimize rejection, mitigate immunosuppression risks, and ensure optimal graft function and patient health.
- Evaluate the evolving landscape of genomics and diagnostics in transplantation to update practices and technologies and apply these insights to enhance patient care and outcomes in everyday clinical practice.
- Familiarize themselves with advanced organ preservation techniques, including perfusion and preservation methods, aimed at enhancing the viability of donated organs and expanding the transplantation window.
- Identify subject matter experts in the field of solid organ transplantation who can provide guidance and insights on the current and future prospects of genomics and diagnostics, enabling you to stay at the forefront of the field.

# Faculty

## Course Director



**Christopher Marsh, MD, FACS, FAST**  
Vice President of Surgical Services,  
Scripps Clinic  
Scripps Organ Transplantation  
Medical Director, Scripps Clinic &  
Medical Group Bio-repository  
Director, Farago Transplant Research &  
Education Program  
Adjunct Member Dept. of Molecular  
Medicine, The Scripps Research Institute  
La Jolla, California

## Course Co-Director



**Sunil Kurian, PhD**  
Scientific Director & Research Scientist  
Scripps Clinic Biorepository &  
Bioinformatics Core  
Scripps Center for Organ &  
Cell Transplantation Research  
La Jolla, California

## Conference Faculty



**Jamil Azzi, MD, PhD, FAST**  
Associate Professor of Medicine, Harvard  
Medical School  
Director, Kidney and Pancreas  
Transplantation  
Brigham and Women's Hospital  
Boston, Massachusetts



**Mandy Ford, PhD**  
Professor, Department of Surgery  
Scientific Director, Emory  
Transplant Center  
Emory University School of Medicine  
Atlanta, Georgia



**Kiran Kaur Khush, MD**  
Professor of Medicine  
Stanford Health Care  
Stanford, California



**John Lee, MD**  
Transplant Nephrologist  
Associate Professor of Medicine  
Weill Cornell Medicine  
New York, New York



**James Mathew, PhD, FAST**  
Professor of Surgery and  
Microbiology-Immunology  
Northwestern University Feinberg  
School of Medicine  
Chicago, Illinois



**Dianne McKay, MD**  
Transplant Nephrologist  
Scripps Clinic  
La Jolla, California



**Madhav Menon, MBBS, MD, FACP**  
Associate Professor  
Director, Research in Kidney  
Transplantation, Nephrology  
Yale School of Medicine  
New Haven, Connecticut



**Stanley Rose, PhD**  
Rose Ventures  
President  
Falmouth, Massachusetts



**Jorke Willemse, PhD**  
Post Doctoral Researcher, Organ  
Perfusionist and Transplant Coordinator  
Erasmus University Medical Center  
Rotterdam, Netherlands



**Alexander Wiseman, MD, FAST**  
Transplant Nephrologist  
Executive Director  
AdventHealth Transplant Institute  
Denver, Colorado



**Ali Zarrinpar, MD, PhD**  
Professor, Division of Transplantation  
and Hepatobiliary Surgery  
University of Florida  
Gainesville, Florida

## Faculty Disclosure

*In accordance with the ACCME Standards for Integrity and Independence in Accredited Continuing Education, course directors, planners, moderators, faculty, and all others in control of the educational content of the continuing education activity must disclose all financial relationships with ineligible companies that they may have had within the past 24 months. If an individual refuses to disclose financial relationships, they will be disqualified from being a part of the planning and implementation of the activity. Owners and/or employees of an ineligible company with business lines or products relating to the content of the activity will not be permitted to participate in the planning or execution of any accredited program. All relevant financial relationships with ineligible companies listed for individuals in control of content have been mitigated.*

*A complete listing of faculty disclosures associated with this program can be found on [www.scripps.org/organtransplantcme](http://www.scripps.org/organtransplantcme)*

# Conference Agenda—Saturday, October 19, 2024

6:30 a.m.	Registration, Breakfast & View Exhibits	Noon	<i>Non-CME Lunch Symposium Hosted by Natera Prospera: The cf-DNA Biomarker Transforming Kidney Transplant Monitoring</i> <i>Hossein (Hoss) Tabriziani, MD</i>
7 a.m.	<i>Non-CME Breakfast Symposium Hosted by Eurofins Viracor</i> <b>CMV T Cell Immunity and TTV Viral Load Monitoring—Innovative Tools for Improved Patient Management</b> <i>Steve Kleiboeker, MD</i>	1 p.m.	<b>Organoid Technology in Graft Regeneration, Disease Modeling, and Tissue Engineering</b> <i>Jorke Willemse, PhD</i>
7:55 a.m.	<b>Welcome and Educational Overview</b> <i>Christopher Marsh, MD and Sunil Kurian, PhD</i>	1:30 p.m.	<b>Genomic Insights to Therapeutic Avenues in CKD and Transplant Fibrosis</b> <i>Madhav Menon, MBBS, MD</i>
8 a.m.	<b>Advancing Transplantation Outcomes with Genomics and Biomarker Discovery</b> <i>Alexander Wiseman, MD</i>	2 p.m.	<b>Decoding the Indicators of Transplant Rejection: Pre-transplant Donor Reactive CD8+ T Cell Clones</b> <i>James Mathew, PhD</i>
8:30 a.m.	<b>Urinary Exosome mRNA as a Diagnostic Signature for Kidney Transplant Rejection</b> <i>Jamil Azzi, MD, PhD</i>	2:30 p.m.	<b>Panel Discussion/Q&amp;A</b>
9 a.m.	<b>The Clinical Promise of Novel Noninvasive Biomarkers in Liver Transplantation</b> <i>TBA</i>	2:45 p.m.	Break & View Exhibits
9:30 a.m.	<b>Panel Discussion/Q&amp;A</b>	3 p.m.	<b>A Transplant Recipient's View on the Evolution of Post-Transplant Molecular Monitoring</b> <i>Stanley Rose, PhD</i>
9:45 a.m.	Break & View Exhibits	3:30 p.m.	<b>Unraveling Gender Disparities: Understanding Sex Differences in Transplantation Outcomes</b> <i>Dianne McKay, MD</i>
10:15 a.m.	<b>The Role of T Cell Responses in the Interplay of Transplantation and Immunosuppression</b> <i>Mandy Ford, PhD</i>	4 p.m.	<b>Customizing Immunosuppression for Liver Transplants: A Personalized Medicine Approach</b> <i>Ali Zarrinpar, MD, PhD</i>
10:45 a.m.	<b>Advancing Heart Transplant Care: Innovations in Non-Invasive Diagnostic Approaches for Post-Transplant Monitoring</b> <i>Kiran Kaur Khush, MD</i>	4:30 p.m.	<b>Panel Discussion/Q&amp;A</b>
11:15 a.m.	<b>Pioneering Graft Success: The Role of Translational Microbiome Research in Transplantation</b> <i>John Lee, MD</i>	4:45 p.m.	Adjourn
11:45 a.m.	<b>Panel Discussion/Q&amp;A</b>	5 p.m.	Networking Reception

*Topics, times and speakers are subject to change*

## Conference Fees & Registration

Space is limited, register early!

Register Online [www.scripps.org/organtransplantcme](http://www.scripps.org/organtransplantcme)

**Included:** Course tuition, breakfast, breaks, lunch, internet access, electronic course materials, and course recordings. **Not Included:** Travel costs, lodging, parking, and dinners

	Thru Aug 19	Aug 20-Oct 16	After Oct 16
Physicians (MD, DO, MBBS)	\$300	\$350	\$400
RN, NP, PA, Other	\$225	\$275	\$325
Students, Residents, Fellows	\$100	\$150	\$200





# Conference Location & Hotel Information

San Diego Marriott La Jolla • 4240 La Jolla Village Dr, La Jolla, CA 92037 • Phone: 858-587-1414

## Rates and Reservations

**Please make your own hotel reservations** and request the Scripps conference reduced rate of \$209 per night (plus waived destination fee and discounted parking). **Make your reservations early! A block of rooms is being held for us at the special rate of \$209 per night until Friday, September 27, 2024, or until the room block fills, whichever comes first.** After this date, reservations will be accepted on a space and rate availability basis only. Visit the conference website for a link to reserve a discounted room. Attendees who book their room through an online, third-party service are not eligible for room block concessions.

## Accreditation and Disclosure

### Physicians

Scripps Health is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

Scripps Health designates this live activity for a maximum of 7 *AMA PRA Category 1 Credit(s)*.™ Physicians should only claim credit commensurate with the extent of their participation in the activity.

### Maintenance of Certification

This CME activity is offering Maintenance of Certification (MOC) points for members of the American Board of Internal Medicine, American Board of Surgery and the American Board of Pathology. Visit the course website for additional details on how points will be awarded.

### Nurses and Nurse Practitioners

For the purpose of recertification, the American Nurses Credentialing Center accepts *AMA PRA Category 1 Credit(s)*™ issued by organizations accredited by the ACCME.

For the purpose of re-licensure, the California Board of Registered Nursing accepts *AMA PRA Category 1 Credit(s)*™ for attendance at structured learning activities offered by organizations accredited by the ACCME.

The American Academy of Nurse Practitioners Certified Program (AANPCP) and the American Association of Nurse Practitioners (AANP) accept *AMA PRA Category 1 Credit(s)*™ from organizations accredited by the ACCME.

### Physician Assistants

PAs may claim a maximum of 7 Category 1 credits for completing this activity. NCCPA accepts *AMA PRA Category 1 Credit(s)*™ from organizations accredited by the ACCME.

### Pharmacists

The California Board of Pharmacy accepts as continuing professional education those courses that meet the standard of relevance to pharmacy practice and have been approved for *AMA PRA Category 1 Credit(s)*.™

### Commercial Support

This course is supported, in part, by educational grants from industry. In accordance with the ACCME Standards for Integrity and Independence in Accredited Continuing Education, a complete list of commercial support received will be provided to all learners who participate in the continuing education activity. For more information: [www.accme.org/standards](http://www.accme.org/standards)

## Attendance Policies

### Attendee Cancellation, Substitution and Refund

The course tuition is refundable, minus a \$100 processing fee (MD, DO, RN, PA, NP) or a \$50 processing fee (Student, Resident, Fellow), if your cancellation is received in writing no later than **Friday, October 4, 2024**. Attendee substitutions are allowed, but notification must be made in writing by **Friday, October 4, 2024**. After this date, under no circumstances will refunds, credits, or substitutions be granted. No refunds or credits will be given to "no shows." No refunds shall be made for cancellations due to inclement weather.

### Scripps Conference Modification or Cancellation

Scripps reserves the right to modify the course's schedule or program as necessary. Scripps also reserves the right to cancel this conference, in which case a full refund of the registration fee will be provided. Attendees who purchase non-refundable airline tickets do so at their own risk. Scripps encourages the purchase of travel insurance as we are unable to refund any travel costs (flight, hotel, etc.) in the case of Scripps cancellation.

### Family and Guest Attendance Policy

All conference activities and meals are exclusively reserved for paid conference attendees. **Children and family members are not allowed to attend meal functions or permitted in the meeting space.**

### Health and Safety Waiver and Assumption of Risk

By completion and submission of the online registration form, participants certify they have read and fully understand the Health and Safety Waiver and Assumption of Risk Agreement.

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