10th Annual

Future of Genomic Medicine

March 2 - 3, 2017 | Scripps Institution of Oceanography | La Jolla, CA
Course Introduction

Course Overview
In collaboration with AAAS/Science Translational Medicine we invite you to another exciting two-day program on Thursday, March 2 and Friday, March 3, 2017 in beautiful San Diego, California. The 2017 program will again be held at Scripps Institution of Oceanography.

The 10th annual Future of Genomic Medicine course will be the next iteration of taking genomic knowledge to transform the daily practice of medicine. To do this, we have patients present their story of how genomics affected their medical status, and have a faculty of experts in genomics, science and medical journalism, and the life science industry provide critical perspective. This year we will be paying particular attention to the exciting area of genomic editing to treat particular diseases, cancer (a disease of the genome), and the genomics of rare and unknown diseases. Furthermore, we will delve into the hot topics of the microbiome, genomic-guided drug therapies and genomic analytics. The overarching goal of the course is to spearhead efforts to use genomic knowledge to change medicine and make it far more precise and individualized.

We look forward to your participation and another successful conference.

Eric J. Topol, MD
Course Director

Course Highlights
• Voice of the patient represented throughout the conference
• Renowned faculty representing the country’s leading institutions
• Multiple panel discussion segments with ample question and answer time with faculty
• Additional networking opportunities

Educational Objectives
After attending this activity, participants should be able to:
• Demonstrate the unmet needs of medicine today with respect to more targeted, individualized prevention and treatments.
• Discuss the opportunities of the genome, proteome, and metabolome discovery to change medical practice as it exists today.
• Assess how changes and advances in technology are rapidly ushering in a whole array of new pathways for individualized medicine of the future.
• Explore specific strategies in cancer, idiopathic and pharmacogenomic disease interventions.

Target Audience
• Physicians
• Human geneticists
• Genomic scientists
• Researchers
• Health care professionals of all disciplines interested in the future of medicine, especially with respect to individualized therapies

Disclosures and About Scripps

Disclosure
Commercial Support
This course is supported, in part, by educational grants from industry. At the time of printing, a complete listing of commercial supporters was not available. Appropriate acknowledgement will be given to all supporters at the time of the educational activity.

Cultural and Linguistic Competency
This activity is in compliance with California Assembly Bill 1195 which requires that all CME activities comprising a patient care element include curriculum addressing the topic of cultural and linguistic competency. The intent of this bill is to ensure that health care professionals are able to meet the cultural and linguistic concerns of a diverse patient population through effective and appropriate professional development. Cultural and linguistic competency was incorporated into the planning of this activity.

About Scripps Translational Science Institute
The Scripps Translational Science Institute (STSI) aims to replace the status-quo of one-size-fits-all medicine with individualized health care that is based on the known genetic factors influencing health and disease and that takes advantage of advances in digital technology for real-time health monitoring.

Since its founding in 2006 by Scripps Health, STSI has been distinguished by its leadership in translational genomics and for harnessing digital, or wireless, medical technology for health monitoring of individual patients. In addition, it is the only member of the National Institutes of Health’s Clinical and Translational Science Award (CTSA) consortium that is not affiliated with a university.

STSI hybridizes The Scripps Research Institute (TSRI)’s considerable biomedical science expertise with Scripps Health’s exceptional patient care and clinical research. As a translational bridge between TSRI and Scripps Health, STSI fosters innovative programs and methodology, provides an optimal setting for training and education and accelerates the conduct of studies that will have the greatest potential impact on the practice of health care in the clinic and the community.

For more information on Scripps Translational Science Institute, visit www.stsiweb.org.
Faculty

Course Director

Eric J. Topol, MD
Founder & Director
Scripps Translational Science Institute
Chief Academic Officer, Scripps Health
Professor of Genomics
The Scripps Research Institute

Planning Committee

Kristian G. Andersen, PhD
Director, Infectious Disease Genomics
Scripps Translational Science Institute
Assistant Professor
The Scripps Research Institute

Laura Nicholson, MD, PhD
Co-Director, Education
Scripps Translational Science Institute
Associate Program Director
Medicine Residency, Scripps Health

Emily Spencer, PhD
Director, Clinical Genomics Program
Assistant Professor
Scripps Translational Science Institute

Steven R. Steinhulb, MD
Director, Digital Medicine
Scripps Translational Science Institute
Associate Professor of Genomic Medicine
The Scripps Research Institute

Andrew Su, PhD
Director, Bioinformatics
Scripps Translational Science Institute
Associate Professor
The Scripps Research Institute

Ali Torkamani, PhD
Director, Genome Informatics and Drug Discovery
Scripps Translational Science Institute
Assistant Professor, Molecular and Experimental Medicine, The Scripps Research Institute

Nathan E. Wineinger, PhD
Director, Bioinformatics
Assistant Professor
Scripps Translational Science Institute

Faculty

Jehannine Austin, PhD, CGC
Associate Professor and Genetic Counselor
Departments of Psychiatry and Medical Genetics
The University of British Colombia

Ed Boyden, PhD
Associate Professor
Media Lab and McGovern Institute
Massachusetts Institute of Technology

Atul Butte, MD, PhD
Director and Distinguished Professor
Institute for Computational Health Sciences
Executive Director for Clinical Informatics
University of California, San Francisco

Eric Dishman, MD, PhD
Director
Precision Medicine Initiative (PMI)
National Institutes of Health

Brian J. Druker, MD
Director, Knight Cancer Institute
Oregon Health & Science University
JELD-WEN Chair of Leukemia Research
Investigator, Howard Hughes Medical Institute

Michael B. Eisen, PhD
Investigator, Howard Hughes Medical Institute
Professor of Genetics
Genomics and Development
University of California, Berkeley

Laura J. Esserman, MD, MBA
Professor, Department of Surgery and Radiology
Co-Leader, Breast Oncology Program
University of California, San Francisco

Jeff Huber
Chief Executive Officer
GRAIL

Sekar Kathiresan, MD
Cardiologist, Human Geneticist
Director, Preventive Cardiology
Massachusetts General Hospital
Associate Member, Program of Medical and Population Genetics
Co-Leader, Breast Oncology Program
Harvard School of Medicine

Paul Knoepfli, PhD
Professor
Department of Cell Biology and Human Anatomy
University of California, Davis

Razelle Kurzrock, MD
Chair, Division of Hematology and Oncology
UCSD School of Medicine
Senior Deputy Director, Clinical Science
Director, Center for Personalized Cancer Therapy
Director, Clinical Trials Office
UCSD Moores Cancer Center

Erez S. Lieberman Aiden, PhD
Assistant Professor
Molecular and Human Genetics
Assistant Professor, Computer Science
Assistant Professor, Computational and Applied Mathematics
Baylor College of Medicine

Bill Lundberg, MD
Chief Scientific Officer
CRISPR Therapeutics

Daniel MacArthur, PhD
Assistant Professor
Massachusetts General Hospital
Co-Director of Medical and Population Genetics
The Broad Institute of MIT and Harvard

Siddhartha Mukherjee, MD
Assistant Professor of Medicine
Columbia University
Physician, Columbia University Medical Center
Author, The Gene: An Intimate History

Eric M. Reiman, MD
Executive Director
Banner Alzheimer’s Institute (BAI)
Chief Executive Officer, Banner Research
Clinical Director, Neurogenomics
Translational Genomics Research Institute (TGen)
Professor of Psychiatry, University of Arizona
Director, Arizona Alzheimer’s Consortium

Pardis C. Sabeti, MD, DPhil
Professor, Center for Systems Biology
Professor, Department of Organismic and Evolutionary Biology
FACulty, Center for the Communicable Disease Dynamics
Harvard University

Eric Schadt, PhD
Professor and Chair
Genetics and Genomic Sciences
Director, Icahn Institute for Genomics and Multiscale Biology

Jay Shendure, MD, PhD
Professor of Genome Sciences
University of Washington
School of Medicine

Ramji Srinivasan
Chief Executive Officer
Counsyl

Beth Stevens, PhD
Institute Member, The Broad Institute
of MIT and Harvard
Assistant Professor, Harvard Medical School
Research Associate
Neurobiology at Boston Children’s Hospital

Ed Yong
Science Writer
The Atlantic

Feng Zhang, PhD
Core Institute Member
The Broad Institute of MIT and Harvard
Investigator, The McGovern Institute, MIT
Associate Professor, Department of Brain and Cognitive Sciences, MIT
Associate Professor, Department of Biological Engineering, MIT
Robertson Investigator
New York Stem Cell Foundation

Carl Zimmer
Columnist
The New York Times
Contributing National Correspondent
STAT
Agenda

Thursday, March 2, 2017

7:30 a.m. Registration and Breakfast

8:00 a.m. Welcome and Opening Remarks
Eric Topol

8:15 a.m. Patient # 1

Session I: Genome Editing

8:55 a.m. Feng Zhang/Genome Editing

9:15 a.m. Bill Lundberg/Genome Editing

9:35 a.m. Question and Answer

9:55 a.m. Break, View Exhibits and Networking

Session II: Progress in Medical Specialties

10:25 a.m. Pardis Sabeti/Infectious Disease

10:45 a.m. Kristian Andersen/Infectious Disease

11:05 a.m. Question and Answer

11:15 a.m. Sekar Kathiresan/Cardiovascular

11:35 a.m. Question and Answer

11:45 a.m. Lunch, View Exhibits and Networking

Session III: Perspectives and Controversies in Genomic Medicine

3:15 p.m. Daniel MacArthur

3:35 p.m. Carl Zimmer

3:55 p.m. Jehannine Austin

4:15 p.m. Michael Eisen

4:35 p.m. Question and Answer

5:00 p.m. Adjourn

Thursday Evening Welcome Reception at Scripps Seaside Forum

Reception will take place until 7:30 p.m.
Friday, March 3, 2017

7:30 a.m.  Registration and Breakfast
8:00 a.m.  Opening Remarks  
Eric Topol
8:05 a.m.  Patient #2
8:45 a.m.  Siddhartha Mukherjee/The Gene

Session I: Precision Medicine

9:25 a.m.  Eric Dishman/ The Precision Medicine Initiative
9:55 a.m.  Ali Torkamani/Healthspan
10:15 a.m. Eric Topol/Individualized Medicine
10:35 a.m.  Question and Answer
10:50 a.m.  Break, View Exhibits and Networking

Session II: New Frontiers

11:20 a.m.  Ed Yong/Microbiome
11:50 a.m.  Paul Knoepfler/iPSCs
12:20 p.m.  Ed Boyden/Optogenetics
12:50 p.m.  10th Annual Genomic Medicine Award
1:00 p.m.  Lunch, View Exhibits and Networking

Session III: Data Science and System Medicine

1:45 p.m.  Atul Butte
2:05 p.m.  Erez Lieberman Aiden
2:25 p.m.  Eric Schadt
2:45 p.m.  Question and Answer

Session IV: Future Directions in Cancer and Liquid Biopsy

3:45 p.m.  Jeff Huber/Cancer Detection in Healthy Individuals
4:05 p.m.  Jay Shendure/Liquid Biopsy
4:25 p.m.  Ramji Srinivasan
4:45 p.m.  Question and Answer
5:00 p.m.  Adjourn

Friday Evening Closing Reception at Scripps Seaside Forum

Reception will take place until 7:30 p.m.
Parking and Transportation

- **IMPORTANT!** You **CANNOT** park in the lots outside of Scripps Seaside Forum. You will be ticketed.
- Directional parking signs will be displayed and additional information regarding available parking will be provided upon registration.
- **Parking is available in the following locations:**
  - **The Pangea Parking Garage** located across the street from The Estancia La Jolla Hotel & Spa. The cost is $8/day. If this parking option is utilized you may walk across the street to The Estancia La Jolla Hotel & Spa to take advantage of the shuttle to the conference venue or take the UCSD shuttle to SIO.
  - The underground parking lot at La Jolla Shores Hotel ($10/vehicle/day) Please see the front desk at the hotel and mention you are attending the Scripps Genomic Medicine Conference in order to obtain a parking pass to receive the discounted rate.
  - Kellogg Park (free)
  - **Streets** around Scripps Institution of Oceanography (Free). Please note that street sweeping takes place on El Paseo Grande every Thursday from 8 – 11 a.m. Please read signs regarding this following carefully.
  - **UCSD Employees/Faculty/Students** are encouraged to park in a UCSD parking lot and take the SIO shuttle to/from Scripps Seaside Forum.
  - You may also park and walk to/from La Jolla Shores Hotel and Kellogg Park to Scripps Seaside Forum (approx. 15 minutes).
  - Handicap parking is available in the lots outside of the forum. These spots are marked and appropriate signage must be displayed.
  - There will be a looping shuttle on Thursday, March 2 and Friday, March 3 between Scripps Translational Science Institute, The Estancia Hotel, The La Jolla Shores hotel, Kellogg Park and Scripps Seaside Forum.

Recommended Lodging

**Estancia La Jolla Hotel & Spa**
9700 N. Torrey Pines Road
La Jolla, California 92037

**Make your reservations early!** A specially priced block of rooms is being held until **February 20, 2017.** After that time, reservations will be accepted on a space and rate availability basis only. Be sure to request the Scripps reduced rate of $209 per night plus tax. This low rate also includes:

- Discounted parking: $10/overnight and $8/day
- Complimentary guestroom internet service
- 10% Spa Discount, Monday – Friday for conference attendees
- Discounted Hospitality Services Fee of $10
- Complimentary shuttle within a 10 mile radius

**Reservations:**
Online: www.estancialajolla.com (Enter code: FOGMX when making your reservation online in order to receive the reduced rate)
Phone: (877) 437-8262 (Reference “Scripps Genomic Medicine Conference” when making your reservation in order to receive the reduced rate.)

**La Jolla Shores Hotel**
8110 Camino Del Oro
La Jolla, California 92037

**Make your reservations early!** A specially priced block of rooms is being held until **February 17, 2017.** After that time, reservations will be accepted on a space and rate availability basis only. Be sure to request the Genomic Medicine Conference reduced rate of $205 per night plus tax for the Garden View Hotel room w/ Kitchenette, $219 per night plus tax for the Coast View room or $249 per night plus tax for the Beach Front room. This low rate also includes:

- Discounted parking: $10/day and $18/overnight (self-only)
- Complimentary guestroom internet service

**Reservations:**
Online: www.ljshoreshotel.com (Enter group code: FOGMX when you “click here for special rates.”)
Phone: (866) 392-8762 (Reference “The Genomic Medicine Conference” when making your reservation in order to receive the reduced rate.)

Please note: Attendees who book their room through an online, third-party service (Hotels.com©, Expedia.com©, Priceline.com©, etc.) are not eligible to receive the amenities listed above.

All conference information including a detailed agenda, faculty listing, faculty disclosures, industry support, attendee list, and course materials will be found on the course webpage: [http://www.stsiweb.org/event/fogm17/](http://www.stsiweb.org/event/fogm17/)
Course Fees & Registration

Course Fees
Space is limited, so register early!
Included: Course tuition, access to course materials (via the course website), internet in meeting space, breakfasts, breaks, lunches and evening functions associated with this course.
Not Included: Travel costs, lodging, parking, and dinners

Please note, this course does not offer Continuing Medical Education (CME) credits.

Main Course

<table>
<thead>
<tr>
<th>Registration Fee</th>
<th>Until Feb. 17</th>
<th>On-site after Feb. 17</th>
</tr>
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<tbody>
<tr>
<td>Scripps Translational Science Institute employees (Registration staff will verify)</td>
<td>$200</td>
<td>$225</td>
</tr>
<tr>
<td>Students, Residents, Fellows (Clinical – registration staff will verify)</td>
<td>$50</td>
<td>$75</td>
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Please call Scripps Conference Services & CME at (858) 652–5400 to inquire about the student, resident, fellow registration process.

Please print clearly. Should we have any conference communications or updates please provide your direct contact information.

FIRST, MI, LAST NAME
DEGREE (MD, DO, PHD, RN, ETC)

BADGE NAME (if different from above)

TWITTER HANDLE

AFFILIATION/HOSPITAL/COMPANY
SPECIALTY

DIRECT MAILING ADDRESS
CITY
STATE
ZIP

OFFICE TELEPHONE
CELL PHONE

FAX

E-MAIL (This is required and will be your user name when accessing your online account.)

ASSISTANT NAME
ASSISTANT DIRECT TELEPHONE

ASSISTANT E-MAIL

PLEASE INDICATE ANY SPECIAL NEEDS (INCLUDING DIETARY RESTRICTIONS). Special requests will be considered and accommodated in full compliance with the Americans with Disabilities Act (ADA).

PAYMENT METHOD:

_____ CHECK. Please make checks payable to Scripps (in U.S. dollars only)

_____ VISA _____ MASTERCARD _____ AMEX _____ DISCOVER

IF PAYING BY CREDIT CARD, PLEASE COMPLETE THE INFORMATION BELOW.

CREDIT CARD NUMBER
EXPIRATION DATE
SECURITY CODE on Card (Required)

NAME ON CARD

BILLING ADDRESS IF DIFFERENT FROM ABOVE

SIGNATURE
DATE

WAYS TO REGISTER

Online  www.stsiweb.org/event/fogm17/

Mail  Scripps Conference Services & CME
Future of Genomic Medicine Conference
11025 North Torrey Pines Road
Suite 200, Maildrop: SCRC200
La Jolla, California 92037

Fax  (858) 652-5565

ATTENDANCE POLICIES

Registration Confirmation
A confirmation letter will be e-mailed to you upon receipt of the conference registration form and payment. If you have not received it within two weeks, please contact the Scripps Conference Services & CME office at (858) 652 – 5400.

Attendee Cancellation, Substitution, Refund
The course tuition is refundable, minus a $50 processing fee, if your cancellation is received in writing no later than February 23, 2017. Attendee substitutions are allowed, but notification must be made in writing by February 23, 2017. After this date, under no circumstances will refunds, credits, or substitutions be granted. No refunds or credits will be given to “no shows.”

Guest Attendance Policy
All conference activities (including educational sessions, meal functions, exhibit hall, etc.) are exclusively reserved for conference attendees. Non-registered guests (including children, family members, colleagues, etc.) are not allowed in the conference areas. Badges provided at registration are required for entrance into all functions and will be strictly enforced.

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. We are unable to refund any travel costs (flight, hotel, etc.) in the case of Scripps cancellation.

Recording and Photography Clause
Scripps reserves exclusive rights to record (audio and video) and/or photograph all conference proceedings for use in marketing materials, presentations and course content sales.
10th Annual
The Future of Genomic Medicine
Thursday, March 2, and Friday, March 3, 2017
Scripps Institution of Oceanography
Robert Paine Scripps Forum for Science, Society and the Environment
La Jolla, California

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