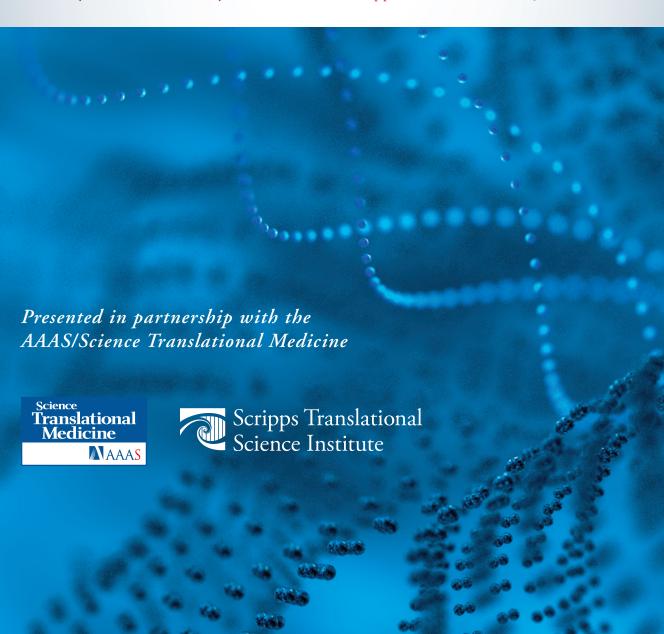


The Future of Genomic Medicine VI

Thursday, March 7 and Friday, March 8, 2013 • Scripps Seaside Forum • La Jolla, California



Dear Colleague,

In collaboration with AAAS/Science Translational Medicine we invite you to another exciting two-day program on Thursday, March 7 and Friday, March 8, 2013, in beautiful San Diego, California. This year's program will again be held at Scripps Seaside Forum.

The 6th Future of Genomic Medicine conference will provide a comprehensive sweep across the most salient opportunities in genomic medicine to change practice. These include rare and idiopathic diseases, cancer, pharmacogenetics and drug development, infectious disease, the microbiome, sequencing DNA of the unborn and newborn, and related advances that are occurring in the field. We will be also getting into bioethical, bioinformatic and regulatory issues with guidance from influential thought leaders. Our main sessions will be starting off with patient (in the first person) presentations to anchor clinical relevance. The overarching goal of the conference 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

En M

About Scripps Scripps Translational Science Institute (STSI), a collaborative bridge initiative between Scripps Health and The Scripps Research Institute, is transforming and integrating clinical and basic research by promoting interdisciplinary omics-based translational research efforts, which advance the field of individualized medicine. STSI is supported by the NIH flagship program, Clinical and Translational Science Award (CTSA). Besides Scripps, there are collaborations with the Sanford-Burnham Institute for Medical Research, Children's Hospital of Philadelphia, Genomics Institute of the Novartis Research Foundation, J. Craig Venter Institute, Salk Institute for Biological Studies, San Diego State University and the San Diego Supercomputer Center on the San Diego Mesa. The Institute emphasizes all three dimensions of translation: i) traditional bench-to-bedside, ii) bedside-to-bench and back-to-bedside, and iii) bedside to the community medicine. STSI harnesses the excitement of today's scientific advances to catapult tomorrow's preventions, betterment of health, and the training of future leaders of academic medicine.

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

Conference Highlights

- · Two-day curriculum.
- Renowned faculty representing the country's leading institutions, chosen for their expertise, as well as teaching skills
- Multiple panel discussion segments with ample question and answer time with faculty.
- · Additional networking opportunities.

Educational Objectives

- Demonstrate the unmet needs of medicine today with respect to more targeted, individualized prevention and treatments.
- Discuss the opportunities of the genome, proteome, 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 futuristic interventions.

Target Audience

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

Scripps Health, a nonprofit health care system based in San Diego, California, includes more than 2,600 affiliated physicians and more than 13,000 employees at five acute-care hospital campuses, home health care services and a network of clinics, physician offices and outpatient centers. Scripps is committed to contributing to the future of medicine through its clinical research trials, graduate medical education and continuing medical education programs.

For more information on Scripps Health, visit scripps.org.

Program Thursday, March 7, and Friday, March 8, 2013

0				
Thursday, M 7:30 a.m. 8:00 a.m.	larch 07, 2013 Registration and Breakfast Welcome and Opening Remarks	Afternoon S 1:15 p.m.	ession I: Hot Topics in Genomic Medicine What Causes De Novo Mutations? Evan Eichler, PhD	
	Eric J. Topol, MD, Director Scripps Translational Science Institute	1:35 p.m.	Big Data and Genomics Eric E. Schadt, PhD	
8:15 a.m.	Patient/Family # 1: Idiopathic Condition	1:55 p.m.	Bending the Cost Curve with Genomics	
Morning Ses 8:45 a.m.	ssion: Sequencing Individuals Panoromics Michael Snyder, PhD	2:15 p.m.	Katrina Armstrong, MD, MSCE How Genomics Will Change Infectious Disease Diagnosis and	
9:05 a.m.	The NIH Undiagnosed Disease Program William A. Gahl, MD, PhD	2:35 p.m.	Prescription George Weinstock, PhD Afternoon Session I Panel	
9:25 a.m.	Challenges and Successes in Idiopathic Diseases Howard J. Jacob, PhD		Discussion/Q&A Afternoon Session I Speakers and Moderators	
9:45 a.m.	Finding the Causative Mutation Ali Torkamani, PhD	3:00 p.m. Break, View Exhibits and Networking Afternoon Session II: Hot Topics in Genomic Medicine		
10:05 a.m.	Break, View Exhibits and Networking	(continued)		
10:30 a.m.	Controversies in Giving Data Back Gholson J. Lyon, MD, PhD	3:30 p.m.	The Under-Appreciated Epigenome Joseph R. Ecker, PhD	
10:50 a.m.	What Data to Give Back Cinnamon S. Bloss, PhD	3:55 p.m.	Intersection of Genomics and Neonates	
11:10 a.m.	Respecting Patients Misha Angrist, PhD		Stephen F. Kingsmore, MB, ChB, BAO, DSc, FRCPath	
11:30 a.m.	Morning Session Panel Discussion/ Q&A	4:20 p.m.	Genomics of the Unborn Stephen Quake, DPhil	
	Morning Session I Speakers and Moderators	4:45 p.m.	Afternoon Session II Panel Discussion/Q&A	



Lunch, View Exhibits and Networking

Noon

Thursday Evening Welcome Reception at Scripps Seaside Forum

Moderators

Adjourn

5:15-7:30 p.m.

Location: 8610 Kennel Way La Jolla, California 92037

Exhibit and Support Opportunities

For information on exhibit and support opportunities during this and many other Scripps educational conferences, please contact:

Afternoon Session II Speakers and

Scripps Conference Services & CME

858-652-5400

med.edu@scrippshealth.org scripps.org/conferenceservices

Friday, Maro	ch 08, 2013 Registration and Breakfast	1:55 p.m.	What We Will Be Able to Do George M. Church, PhD
Morning Session: A Revamped Approach to Cancer and New Therapeutics		2:15 p.m.	How the Microbiome Will Become the Big Player Jonathan Eisen, PhD
8:00 a.m.	Patient/Family # 2: Genetically Guided Cancer Prescription	2:35 p.m.	How Does Big Data Change the Scene?
8:30 a.m.	What are the Fundamental Challenges?		Atul Butte, MD, PhD
	Siddhartha Mukherjee, MD, DPhil	2:55 p.m.	Drop Dead Healthy A.J. Jacobs
9:00 a.m.	Sequencing to Guide Therapy Elaine R. Mardis, PhD	3:15 p.m.	Break, View Exhibits and Networking
9:20 a.m.	Taking Genomics Into the Daily Practice of Oncology	3:45 p.m.	A Window into Genetics of Aging from a Cohort of 100,00 Individuals Neil Risch, PhD
9:40 a.m.	Danel D. Von Hoff, MD Beyond Genomic Health Randy Scott, PhD	4:05 p.m.	How Insurers Can Adapt to Genomic Medicine
10:00 a.m. 10:30 a.m.	Break, View Exhibits and Networking Toward Precision Medicine Susan Desmond Hellman, MD, MPh	4:25 p.m.	Lonny Reisman, MD Making Sense of Sequence: Extracting Functional Information from Genetic Variation
10:50 a.m.	Drug Development in a New Era Elias Zerhouni, MD	4.45	Daniel MacArthur, PhD
11:10 a.m.	The Intersection of Genomics and Regulatory Issues Janet Woodcock, MD	4:45 p.m.	Afternoon Session Panel Discussion/Q&A Afternoon Session Speakers and Moderators
11:30 a.m.	Morning Session Panel Discussion/ O&A	5:00 p.m.	Adjourn
	Morning Session Speakers and Moderators	at Scripps	ening Closing Reception s Seaside Forum
Noon	6th Annual Scripps Genomic Medicine Award Presentation	5-6 p.m. Location: 86	610 Kennel Way

Afternoon Session I: Predicting Susceptibility to Disease

1:15 p.m.	The Interplay of Genetic Architecture
	and Precision of Individual Risk
	Prediction for Common Disease
	Peter Visscher, PhD

Medicine Award Presentation

Lunch, View Exhibits and Networking

1:35 p.m. **Sequencing Undiagnosed Conditions**

of Childhood

David B. Goldstein, PhD

Industry Support

This course is supported, in part, by educational grants from industry, in accordance with ACCME accreditation Standards for Commercial Support. 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.



Conference Location

Scripps Seaside Forum

Robert Paine Scripps Forum for Science,

Society and the Environment Samuel H. Scripps Auditorium 8610 Kennel Way La Jolla, California 92037





Directions:

- From Interstate 5, head west on La Jolla Village Drive towards Birch Aquarium
- · Make a left on Expedition Way
- Make a right on Downwind Way at the stop sign before the aquarium
- · This road curves to the left so follow it to the end
- Make a left on La Jolla Shores Drive
- · Make a right on El Paseo Grande
- · Scripps Seaside Forum will be on your right

Parking and Transportation:

- IMPORTANT! You CAN NOT 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 given upon registration.
- Parking is available in the underground parking lot at La Jolla Shores Hotel (\$5/day \$14/overnight) and at Kellogg Park (free). 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.
- Street parking is also available.
- There will be a looping shuttle on Thursday, March 7 and Friday, March 8 between Estancia Hotel, La Jolla Shores Hotel, Kellogg Park and Scripps Seaside Forum.
- Handicap parking is available in the lots outside of the forum. These spots are marked and appropriate signage must be displayed.
- You may also park and walk to/from La Jolla Shores Hotel and Kellogg Park to Scripps Seaside Forum (approx. 15 min.).
- UCSD Employees/Faculty/Students are encouraged to park in a UCSD parking lot and take the SIO shuttle to/from Scripps Seaside Forum.

Recommended Lodging

Estancia La Jolla Hotel & Spa

9700 N. Torrey Pines Road La Jolla, California 92037

Located only one mile from the conference venue, this beautiful hotel is situated adjacent to the Salk Institute for Biological Studies, the University of California San Diego (UCSD), the village of La Jolla, beaches, shopping, and San Diego's world-class attractions.

Make your reservations early! A specially priced block of rooms is being held until **February 18, 2013**. After that time, reservations will be accepted on a space and rate availability basis only. Be sure to request the Scripps reduced rate of only \$189 per night plus tax. This low rate also includes:

- Discounted parking \$8/day and \$15/overnight
- · Complimentary guestroom internet service
- 10% Spa Discount, Monday Friday for conference attendees

Reservations:

Online: estancialajolla.com (Enter code: FOGMVI 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

Located only steps from the conference venue, La Jolla Shores Hotel is one of the select few hotels in San Diego situated directly on the beach.

Make your reservations early! A specially priced block of rooms is being held until February 20, 2013. After that time, reservations will be accepted on a space and rate availability basis only. Be sure to request the Scripps reduced rate of only \$160 per night plus tax for the Garden View Hotel room, \$175 per night plus tax for the Coast View room or \$185 per night plus tax for the Beach Front room. This low rate also includes:

- · Discounted parking: \$5/day and \$14/overnight
- · Complimentary guestroom internet service

Reservations:

Online: ljshoreshotel.com (Please enter group code FOGMVI when you "click here for special rates.")

Phone: 866-392-8762 (Please reference "Scripps Genomic Medicine Conference" when making your reservation)

La Jolla, California

La Jolla is known throughout the world for its beautiful beaches and year-round temperate weather. Nestled on the northern edge of San Diego, it is unique in that it maintains its quaint village atmosphere within a sophisticated cosmopolitan environment. A broad spectrum of cultural and recreational activities is also available in the in the metropolitan San Diego area, including the nationally acclaimed San Diego Zoo, Wild Animal Park, Sea World, the San Diego Opera, the Old Globe Theater, and the Museum of Contemporary Art, San Diego in La Jolla.

lajolla.com sandiego.org

The Future of Genomic Medicince VI

Conference Fees

Space is limited, so register early!

Included: Registration includes the online learning module, course tuition, course materials, breakfasts, breaks, lunches and the welcome and closing reception.

Not Included: Travel costs, lodging, parking and dinners.

Upon registration you will receive information on how to access the online learning module. The objective of this module is to become familiar with the common terms, tools and current research being done in the area of genomic medicine.

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

Main Conference	Pre-registration through Feb. 20, 2012		On-site after Feb. 21, 2013	
Registration Fee		\$150		\$175*
Students, Residents and Fellows (Please enclose proof of status when registering)		wavied		\$25*

On-site Registration

Do you give permission to publish your name and e-mail

address to be distributed at the conference?

BILLING ADDRESS IF DIFFERENT FROM ABOVE

ALITHORIZED SIGNATURE

Please note, pre-registration will be accepted through February 21, 2013. After this date, registration will only be accepted on-site and will incur an additional \$25 fee.

Yes	Thursday Evening Welcome Reception
100	I would like to attend the Welcome Reception (cost included in my registration)
Yes	Friday Evening Closing Reception
	I would like to attend the Closing Reception (cost included in my registration)

Yes

DATE

Nn

Please print clearly. By completing this registration form and returning it to Scripps you are acknowledging compliance with all

attenuance poncies. Silvulu we have any conference communications of	upuates piease provide your unect contact information.
FIRST NAME, MI, LAST NAME	DEGREE (MD, DO, PhD, RN, etc.)
HOSPITAL/AFFILIATION/COMPANY	SPECIALTY
DIRECT MAILING ADDRESS	
CITY	STATE ZIP
DIRECT TELEPHONE	FAX
EMAIL ADDRESS	
EMALE ADDRESS	
120/27.117.11.115	A CONTRACT TO SECURITION
ASSISTANT NAME	ASSISTANT DIRECT TELEPHONE
ASSISTANT EMAIL ADDRESS	
Please indicate any special needs (including dietary restrictions.)	
Special requests will be considered and accommodated in full compliance with the Amer	icans with Disabilities Act (ADA)
Office Use Only: Date Recieved Amount C	Check No./Approval CD Confirmation Sent Initials
Payment Method	
CHECK Please make payable to: Scripps (in US Dollars only)	
Visa Mastercard AMEX Discover If paying by credit card, please con	nplete the information below.
CREDIT CARD NUMBER	SECURITY CODE EXPIRATION DATE

Three Easy Ways To Register

Online: scripps.org/conferenceservices

Fax: 858-652-5565

Mail: Scripps Conference Services & CME

Genomic Medicine Conference 11025 North Torrey Pines Road Suite 200, Maildrop: SCRC200 La Jolla, California 92037

Ouestions?

Contact: Scripps Conference Services & CME

Phone: 858-652-5400

Email: med.edu@scrippshealth.org

Attendance Policies

Registration Confirmation

A confirmation letter will be emailed or 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.

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 21, 2013. Attendee substitutions are allowed, but notification must be made in writing by February 21, 2013. 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.

Faculty 2013

Course Director

Eric J. Topol, MD

Director, Scripps Translational Science Institute Chief Academic Officer, Scripps Health Professor of Genomics, The Scripps Research Institute La Jolla, California

Planning Committee

Cinnamon S. Bloss, PhD

Director of Social Sciences and Bioethics Assistant Professor, Scripps Translational Science Institute Scripps Health & The Scripps Research Institute La Jolla, California

Nicholas J. Schork, PhD

Director of Research, Scripps Genomic Medicine Scripps Health Director of Biostatistics and Bioinformatics The Scripps Translational Science Institute Professor, Department of Molecular and Experimental Medicine, The Scripps Research Institute La Jolla, California

Ali Torkamani, PhD

Director of Drug Discovery The Scripps Translational Science Institute Assistant Professor of Molecular and Experimental Medicine, The Scripps Research Institute La Jolla, California

Conference Faculty

Misha Angrist, PhD

Assistant Professor of the Practice Duke Institute for Genome Sciences & Policy Duke University Durham, North Carolina

Katrina Armstrong, MD, MSCE

Professor of Medicine University of Pennsylvania School of Medicine Philadelphia, Pennsylvania

Atul Butte, MD, PhD

Chief and Associate Professor of Systems Medicine Department of Pediatrics Stanford School of Medicine Stanford, California

George M. Church, PhD

Professor of Genetics Harvard Medical School Director of Center for Computational Genetics Boston, Massachusetts

Joseph R. Ecker, PhD

Professor, Genomic Analysis Laboratory Salk International Council Chair in Genetics Howard Hughes Medical Institute The Salk Institute for Biological Studies La Jolla, California

Evan Eichler, PhD

Investigator of the Howard Hughes Medical Institute Professor of Genome Sciences University of Washington

Seattle, Washington Jonathan Eisen, PhD

Professor

UC Davis Genome Center Department of Evolution and Ecology Department of Microbiology and Immunology University of California, Davis

William A. Gahl, MD, PhD

Davis, California Clinical Director

National Human Genome Research Institute Senior Investigator, Medical Genetics Branch National Human Genome Research Institute Bethesda, Maryland

David B. Goldstein, PhD

Director, Center for Human Genome Variation The Richard and Pat Johnson Distinguished University Professor Duke Center for Human Genomic Variation

Susan Desmond Hellman, MD, MPH

Chancellor

University of California, San Francisco San Francisco, California

Howard J. Jacob. PhD

Durham, North Carolina

Director, Human and Molecular Genetics Center Warren P. Knowles Chair of Genetics Professor, Department of Physiology & Pediatrics Medical College of Wisconsin Vice Chair of Research, Department of Pediatrics Children's Hospital of Wisconsin Milwaukee, Wisconsin

A I Jacobs

Author of "Drop Dead Healthy" Editor-at-Large Esquire Magazine

Stephen F. Kingsmore, MB, ChB, BAO, DSc, **FRCPath**

Director, Center for Pediatric Genomic Medicine Children's Mercy Center for Pediatric Genomic Medicine Kansas City, Missouri

Gholson J. Lyon, MD, PhD

Assistant Professor in Human Genetics Cold Spring Harbor Laboratory Research Scientist Utah Foundation for Biomedical Research Philadelphia, Pennsylvania

Daniel MacArthur, PhD

Assistant Professor Analytic and Translational Genetics Unit Massachusetts General Hospital Boston, Massachusetts

Elaine R. Mardis, PhD

Professor, Genetics and Molecular Microbiology Co-Director of The Genome Institute Washington University School of Medicine at Washington University Medical Center St. Louis, Missouri

Siddhartha Mukherjee, MD, DPhil

Assistant Professor of Medicine, Columbia University Physician, Columbia University Medical Center Author, "The Emperor of All Maladies: A Biography of Cancer" (2011 Pulitzer Prize for Non-Fiction) New York, New York

Stephen Quake, DPhil

Professor of Bioengineering Co-Chair, Department of Bioengineering Investigator, Howard Hughes Medical Institute Stanford, California

Lonny Reisman, MD

Senior Vice President Chief Medical officer aetna Hartford, Connecticut

Eric E. Schadt, PhD

Jean C. and James W. Crystal Professor of Genomics Professor and Chairman, Department of Genetics and Genomic Sciences Director, Institute for Genomics and Multiscale Biology Mount Sinai School of Medicine New York, New York

Neil Risch, PhD

Professor, Division of Biostatistics Director, Instutiute for Human Genetics University of California, San Francisco San Francisco, California

Randy Scott, PhD

Chief Executive Officer InVitae™ Corporation Redwood City, California

Michael Snyder, PhD

Stanford B. Ascherman Professor and Chair of Genetics Director, Stanford Center for Genomics and Personalized Medicine Stanford, California

Peter Visscher, PhD

Professor of Quantitative Genetics University of Queensland Brisbane, Queensland Australia

Daniel D. Von Hoff, MD

Physician-in-Chief, Distinguished Professor Translational Genomics Research Institute (TGen) Professor of Medicine, Mayo Clinic and Chief Scientific Officer Scottsdale Healthcare and US Oncology Phoenix, Arizona

George Weinstock, PhD

Professor, Department of Genetics Professor, Department of Microbiology Associate Director, The Genome Institute Washington University St. Louis, Missouri

Janet Woodcock, MD

Director, Center for Drug Evaluation and Research U.S. Food and Drug Administration Silverspring, Mayland

Elias Zerhouni, MD

Sanofi President, Global R&D Paris, France







Conference Services & CME 11025 North Torrey Pines Road, Suite 200 La Jolla, CA 92037

The Future of Genomic Medicine VI

Thursday, March 7 and Friday, March 8, 2013 Scripps Seaside Forum—Scripps Institution of Oceanography Robert Paine Scripps Forum for Science, Society and the Environment Samuel H. Scripps Auditorium La Jolla, California

Presented in partnership with the AAAS/Science Translational Medicine







The Future of Genomic Medicine VI Thursday, March 7 and Friday, March 8, 2013 Scripps Seaside Forum • La Jolla, California

www.facebook.com/ScrippsCME www.twitter.com/scrippshealth www.youtube.com/scrippshealth







