

The Future of Genomic Medicine V

Thursday, March 1 and Friday, March 2, 2012 • Scripps Seaside Forum • La Jolla, California



Dear Colleague,

We invite you to another exciting two day program on Thursday, March 1 and Friday, March 2, 2012 in beautiful San Diego, California. This year's program will again be held at Scripps Seaside Forum.

The fifth Future of Genomic Medicine conference will focus on the extraordinary advances that are occurring in the field, which include whole genome and exome sequencing, pharmacogenomics, and advances in cancer treatment as an outgrowth of genomics. The 2012 conference will include an in depth session on "idiopathic diseases", an area in which there has been particularly remarkable progress. We will feature sessions on hot topics from non-scientists to speakers who are journalists, regulatory experts, and lawyers. Our overarching goal is to spearhead efforts to change medicine using genomics.

We look forward to your participation and another successful conference.

Eric J. Topol, MD

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Course Director

Scripps Translational Science Institute (STSI)

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, San Diego Supercomputer Center and The Neurosciences Institute 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 (STSI), 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

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

Scripps Health, a nonprofit integrated health system based in San Diego, California, includes more than 2,600 affiliated physicians and over 13,000 employees at five acute-care hospital campuses, home health care services and an ambulatory care network of physician offices and 23 outpatient centers and clinics. 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.

Faculty

Course Director

Eric J. Topol, MD

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Conference Faculty

Joseph Beery and Family

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Professor and Vi and John Adler Chair for Research on Age-Related Neurodegenerative Diseases

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Managing Partner, The Column Group Former Director for Global Health Bill & Melinda Gates Foundation Former Director, National Cancer Institute ('95-'01) San Francisco, California

Elaine R. Mardis, PhD

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

Siddharta Mukherjee, MD, PhD

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

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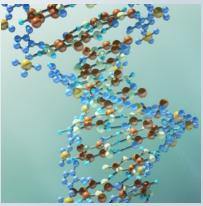
Joseph C. Wu, MD, PhD

Associate Professor of Medicine and Radiology Institute of Stem Cell Biology Stanford University School of Medicine Stanford, California

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Associate Director of Genomics
Office of Clinical Pharmacology
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Co-Director, Biomarker Qualification Program
Office of Translational Sciences
Silver Spring, Maryland





Program Thursday, March 1 and Friday, March 2, 2012

Thursday, March 1, 2012

7:30 a.m. Registration and Breakfast

8:15 a.m. Welcome and Opening Remarks

Chris Van Gorder, FACHE

President and CEO, Scripps Health

Eric J. Topol, MD

Director, Scripps Translational Science Institute

8:30 a.m. How Did Sequencing Our Genomes Change

Our Lives?

Joseph Beery and Family

Morning Session: Changing Medical Practice-Pharmacogenomics

Moderators: Samuel Levy, PhD and Eric J. Topol, MD

9:00 a.m. Exome Sequencing to Understand Pharmacogenomics

Samuel Levy, PhD

9:20 a.m. Pharmacogenetic Testing to Optimize Treatment of

Patients with Symptomatic Coronary Artery Disease

Matthew J. Price, MD

9:40 a.m. HTN Pharmacogenomics-Advances and Challenges

Julie Johnson, PharmD

10:00 a.m. Break, View Exhibits and Networking

10:20 a.m. Predicting Adverse Events with Commonly Used

Drugs-An Update

Michael R. Hayden MB, ChB, PhD

10:40 a.m. Pharmacogenomics to Optimize Treatment of

Childhood Leukemia

William E. Evans, PharmD

11:00 a.m. Morning Panel Discussion/Q&A

Morning Session Speakers and Moderators

Hot Topics in Genomic Medicine

Moderators: Evan Eichler, PhD and Sarah Murray, PhD

11:25 a.m. Genetic Basis of Autism and Developmental Delay

Evan Eichler, PhD

11:50 a.m. DNA Transistors and Handheld Sequencing

Christofer Toumazou, PhD

12:15 p.m. Lunch, View Exhibits and Networking

1:00 p.m. Perspectives on Genomics and the Emperor

of All Maladies

Siddharta Mukherjee, MD, PhD

1:30 p.m. Genomics of the Wellderly (Healthy Aging)

Sarah Murray, PhD

Afternoon Session I: Changing Medical Practice-Chronic Diseases

Moderators: Nicholas Schork, PhD and Bradley Patay, MD

1:50 p.m. Genomic Diagnosis of Pediatric Conditions

Hakon Hakonarson, MD, PhD

2:15 p.m. Infrastructure for Clinical Genomics

Isaac Kohane, MD, PhD

2:40 p.m. Genes, Pathways, Environment and Clinical

Implications in Autoimmune Diabetes

John A. Todd, FRS, PhD

3:05 p.m. Afternoon Session I Panel Discussion/Q&A

Afternoon Session I Speakers and Moderators

3:25 p.m. Break, View Exhibits and Networking

Afternoon Session II: Changing Medical Practice-Rare Idiopathic Diseases

Moderators: Eric J. Topol, MD and Nicholas Schork, PhD

3:45 p.m. Personalized Medicine: Whole Genome Sequencing

in the Clinic

Howard J. Jacob, PhD

4:10 p.m. Exome Sequencing in Mendelian

Neurodevelopmental Disorders

Joseph G. Gleeson, MD

4:35 p.m. Efficient Detection of Causative Mutations for Rare

Diseases: Rethinking Clinical Practice

Stanley F. Nelson, MD

5:00 p.m. Whole genome sequencing and the detection of

disease-causing mutations

Lynn Jorde, PhD

5:25 p.m. Afternoon Session II Panel Discussion/Q&A

Afternoon Session I Speakers and Moderators

5:45 p.m. Wrap Up and Adjourn

Thursday Evening Welcome Reception at Scripps Seaside Forum

5:45 - 7:30 p.m.

Location: 8610 Kennel Way La Jolla, California 92037











Friday, March 2, 2012

7:30 a.m. Registration and Breakfast

8:00 a.m. The Creative Destruction of Medicine

Eric J. Topol, MD

Morning Session: New Approaches

Moderators: Aravinda Chakravarti, PhD and Richard Klausner, MD

8:45 a.m. Understanding and Predicting Sudden Cardiac

Death: The View from Genes

Aravinda Chakravarti, PhD

9:05 a.m. Revisiting Lamarck and Mendel: Transgenerational

Genetic Effects on Health and Disease

Joseph Nadeau, PhD

9:30 a.m. Healthy vs. Unhealthy Genomes: Individual and

Population Perspectives

Nicholas Schork, PhD

9:55 a.m. Clinical Development Out of Academia Based on

Genetic Stratification

Hakon Hakonarson MD, PhD

10:20 a.m. Morning Panel Discussion/Q&A

Morning Session Speakers and Moderators

10:45 a.m. Break, View Exhibits and Networking

Broad Perspectives

Moderator: Eric J. Topol, MD

11:05 a.m. The Collision: What Happens When Medicine

Gets Genetic?

Matthew Herper

11:30 a.m. A Lawyer's Guide to Personal Genomics

Daniel B. Vorhaus, JD, MA

11:55 a.m. Thinking Inside the Box-The Regulatory

Science Paradox

Issam Zineh, PharmD, MPH

12:20 p.m. Panel Discussion/Q&A

5th Annual Scripps Genomic Medicine Award

Presentation

12:30 p.m. Lunch, View Exhibits and Networking

Afternoon Session I: Changing Medical Practice-Cancer

Moderators: Elaine Mardis, PhD and Jeffrey Trent, PhD

1:15 p.m. A Bold Assessment of How Genomics

Changes the Outlook for Cancer

Richard D. Klausner, MD

1:40 p.m. Cancer Genomes and Personalized Medicine

Thomas J. Hudson, MD

2:05 p.m. Using Biointelligence to Search the Cancer

Genome: Knowledge Recovery Efforts to Move

Towards Precision Medical Genomics (PMG)

Jeffrey M. Trent, PhD

2:30 p.m. A Relentless Molecular Pursuit Approach to

Take Out Pancreatic Cancer

Daniel D. Von Hoff, MD

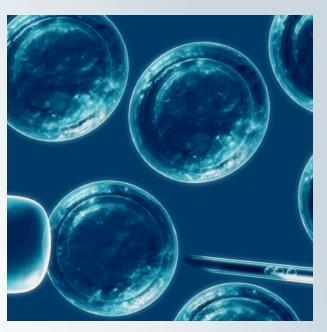
2:55 p.m. Cancer Genome Evolution

Elaine R. Mardis, PhD

3:20 p.m. Afternoon Panel I Discussion/Q&A

Afternoon Session I Speakers and Moderators

3:45 p.m. Break, View Exhibits and Networking



Afternoon Session II: Diseases-in-a-Dish

Moderators: Samuel Levy, PhD and Fred Gage, PhD

4:05 p.m. Modeling Human Brain Disease with Patient

Specific iPS Cells

Fred H. Gage, PhD 4:30 p.m. The RASopathies: Studying Inherited Human

Disease via iPS

Bruce D. Gelb, MD 4:55 p.m. Clinical Challenges of iPSC Therapy

Joseph C. Wu, MD, PhD

5:20 p.m. Afternoon Session II Panel Discussion/Q&A

Afternoon Session II Speakers and Moderators

5:45 p.m. Wrap Up and Adjourn

Exhibit and Support Opportunities

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

Scripps Conference Services & CME

858-652-5400

med.edu@scrippshealth.org

scripps.org/conferenceservices

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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 toward Birch Aquarium
- · Make a left on Expedition Way
- Make a right on Downwind Way at the stop sign before the aguarium
- · 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.
- 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 1 and Friday, March 2 between Estancia La Jolla 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 15, 2012**. 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 percent spa discount, Monday-Friday for conference attendees

Reservations:

Online: estancialajolla.com (Enter code: FOGMV 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 15, 2012. 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 FOGMV 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 Medicine V

Thursday, March 1 and Friday, March 2, 2012 • Scripps Institution of Oceanography • La Jolla, California

Conference Fees

Space is limited, so register early!

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

Included: Online learning module, course tuition, breakfasts, breaks, lunches and the welcome 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. By submitting a complete registration form to Scripps, you are acknowledging compliance with all attendance polices (listed on back cover).

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

Registration Fee	\$95	\$120*		note, pre-registration will be accepted thr vill only be accepted on-site and will incur	
Students, Residents and Fellows (Please enclose proof of status when registering)	wavied	\$25*	Alter uns uate, registration w	nii uniy be accepted un-site and wiii incui	ali audituliai \$23 iee.
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The Future of Genomic Medicine V

Thursday, March 1 and Friday, March 2, 2012 Scripps Seaside Forum—Scripps Institution of Oceanography Robert Paine Scripps Forum for Science, Society and the Environment Samuel H. Scripps Auditorium La Jolla, California



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 16, 2012. Attendee substitutions are allowed, but notification must be made in writing by February 16, 2012. 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.