



**Scripps Translational
Science Institute**

**Science
Translational
Medicine**



*Scripps Translational Science Institute
In Partnership with AAAS/Science Translational Medicine
Present*

**The Future of Genomic Medicine VIII Conference
Program**

**Scripps Seaside Forum - Scripps Institution of Oceanography
Robert Paine Scripps Forum for Science, Society and the Environment
Samuel H. Scripps Auditorium
La Jolla, California**

**Thursday March 5th 2015
Friday March 6th 2015**



Program 2015

Thursday, March 05, 2015

- 7:30 a.m. Registration and Breakfast
8:00 a.m. Welcome and Opening Remarks/Eric J. Topol
8:15 a.m. Patient # 1: Incidental detection of cancer with a non-invasive prenatal test (NIPT)
Eunice Lee, MD and Nilesh Dharajiya, MD
8:55 a.m. State of the Field/Francis S. Collins
8th Annual Scripps Genomic Medicine Award

Morning Session I: Lessons from Neanderthals for Medicine's Future

- 9:55 a.m. The Genetic Contribution of Neanderthals to Present-Day Humans/Svante Pääbo
10:15 a.m. *Break, View Exhibits and Networking*

Morning Session II: Cell Free DNA and RNA (*Moderator: Ali Torkamani*)

- 10:45 a.m. Prenatal DNA Sequencing/Diana W. Bianchi
11:05 a.m. Endothelial/ Evan Muse
11:25 a.m. Molecular Stethoscope/Stephen Quake
11:45 a.m. Cancer/David Hoon
12:05 p.m. Morning Session Panel Discussion/Q&A
12:35 p.m. *Lunch, View Exhibits and Networking*

Afternoon Session I: Genomic – Guided Drug Therapy (*Moderator: Ali Torkamani*)

- 1:20 p.m. Genomic-Guided Intervention for Diabetes/Mark McCarthy
1:40 p.m. Rare Diseases and Root Cause Mutations/Christopher P. Austin
2:00 p.m. Discovery/George D. Yancopoulos
2:20 p.m. Afternoon Session I Panel Discussion/Q&A
2:50 p.m. *Break, View Exhibits and Networking*

Afternoon Session II: Genome Analytics (*Moderators: Nathan Wineinger and Andrew Su*)

- 3:20 p.m. Translating trillions of points of data into diagnostics, therapeutics,
and new insights into disease/Atul Butte
3:40 p.m. The Network Organized Wisdom Of Crowds/Eric E. Schadt
4:00 p.m. Using Citizen Science to organize biomedical knowledge/Andrew Su
4:20 p.m. Large-scale human genomics and the future of epidemiology/Joe Pickrell
4:40 p.m. Afternoon Session II Panel Discussion/Q&A
5:10 p.m. *Adjourn*

Thursday Evening Welcome Reception at Scripps Seaside Forum (*until 7:30 p.m.*)

Location: 8610 Kennel Way
La Jolla, California 92037

Friday, March 06, 2015

- 7:30 a.m. Registration and Breakfast
8:00 a.m. Patient # 2: Unknown Neurological Disorders/Sherri Mellos
8:40 a.m. State of the Field/Eric Topol

Morning Session I: Cancer Genomic Medicine – The BIG Picture (*Moderator: Ali Torkamani*)

- 9 a.m. A large part of the variation in cancer risk among tissues can be explained by random
replicative mutations/Cristian Tomasetti, PhD
9:20 a.m. Implementing high-throughput, large-scale testing of cancer predisposition genes

Nazneen Rahman
9:40 a.m. Patients are the Secret Weapon in Advancing Personalized Cancer Therapy/Roni Zeiger
10 a.m. Morning Session I Panel Discussion/Q&A
10:20 a.m. *Break, View Exhibits and Networking*

Morning Session II: Genome Editing (*Moderators: Kristin Baldwin and Fyodor Urnov*)

10:50 a.m. Overview/J. Keith Joung
11:10 a.m. Clinical application of genome editing /Fyodor Urnov
11:30 a.m. Cardiovascular/Kristin Baldwin
11:50 a.m. Morning Session II Panel Discussion/Q&A
12:20 p.m. *Lunch, View Exhibits and Networking*

Afternoon Session I: The Microbiome (*Moderator: Kristian Andersen*)

1:15 p.m. Early life as the crucible for microbiome development and clinical consequences
Martin J. Blaser
1:35 p.m. The evolution and ecology of microbiomes/Jonathan Eisen
1:55 p.m. Mobile Genomic Medicine/Steven R. Steinhubl
2:05 p.m. *Break, View Exhibits and Networking*

Afternoon Session II: Rare and Unknown Diseases (*Moderator: David Goldstein*)

2:35 p.m. Interpretation of Genome Wide Sequencing Data/Elizabeth A. Worthey
2:55 p.m. Update: The Scripps IDIOM Project/Ali Torkamani
3:15 p.m. Silos and sequencing/Seth Mnookin
3:35 p.m. When genes are beside the point: Two stories/Virginia Hughes
3:55 p.m. Afternoon Session II Panel Discussion/Q&A
4:25 p.m. *Closing remarks and Adjourn*

Friday Evening Closing Reception at Scripps Seaside Forum (*until 7:30 p.m.*)

Location: 8610 Kennel Way
La Jolla, California 92037

For additional information contact:

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