



INSTITUTE OF MEDICINE
OF THE NATIONAL ACADEMIES

Board on Health Sciences Policy

Roundtable on Translating Genomic-Based Research for Health

Improving the Efficiency and Effectiveness of Genomic Science Translation: A Workshop

December 3, 2012

**The Beckman Center of the National Academies
100 Academy
Irvine, CA**

Workshop Objectives:

- To examine how basic science can best be positioned to foster successful translation of early genomic discoveries.
 - To explore the challenges in and identify potential opportunities for improving the efficacy of the translation process.
 - To define pathways for moving innovative basic science forward.
-

8:30–8:45 A.M.

WELCOMING REMARKS AND CHARGE TO WORKSHOP SPEAKERS AND PARTICIPANTS

Wylie Burke, *Roundtable Co-Chair*
Professor and Chair,
Department of Bioethics and Humanities,
University of Washington

Sharon F. Terry, *Roundtable Co-Chair*
President and CEO,
Genetic Alliance

SESSION I: CONNECTING BASIC RESEARCH TO HEALTH CARE NEEDS

Discussion Provocateur: William Rutter, Synergenics

8:45–9:05 A.M.

Genomics to Health

Edison Liu
President and Chief Executive Officer,
The Jackson Laboratory

9:05–9:25 A.M.

Genomics and Personalized Cancer Treatment

David Huntsman
Associate Professor of Medicine,
University of British Columbia

9:25–10:15 A.M.

Discussion with Speakers and Attendees

10:15–10:20 A.M.

Session Distillation and Potential Next Steps

William Rutter
Chief Executive Officer,
Synergenics

10:20–10:35 A.M.

BREAK

SESSION II: MOVING BASIC SCIENCE FORWARD

Discussion Provocateur: Robert Nussbaum, University of California,
San Francisco

10:35–10:55 A.M.

Discovering New Drugs and Diagnostics from 300 billion Points of Data

Atul Butte
Chief and Associate Professor of Systems Medicine,
Department of Pediatrics,
Stanford University School of Medicine

10:55–11:15 A.M.

Translating Genetic and Genomic Research in Neuropsychiatric Conditions: Lessons from Autism Research

Daniel H. Geschwind
Gordon and Virginia MacDonald Distinguished Chair in Human
Genetics and Professor of Neurology and Psychiatry,
University of California, Los Angeles School of Medicine

11:15 A.M.–12:05 P.M. **Discussion with Speakers and Attendees**

12:05–12:10 P.M. **Session Distillation and Potential Next Steps**

Robert L. Nussbaum
Chief, Division of Medical Genetics
Dept. of Medicine and Institute of Human Genetics
University of California, San Francisco, School of Medicine

12:10–1:00 P.M. **WORKING LUNCH**

SESSION III: THE ROLE OF INDUSTRY AND VENTURE CAPITAL

Discussion Provocateur: Wylie Burke, University of Washington

1:00–1:20 P.M. **Lost in Translation: The Systematic and Comprehensive**

Geoffrey Duyk
Partner and Managing Director,
TPG Biotech

1:20–1:40 P.M. **Translating Genomic Science into Clinical Practice: Time for Innovative Business Models**

Randy Scott
Chairman and Chief Executive Officer,
InVitae

1:40–2:30 P.M. **Discussion with Speakers and Attendees**

2:30–2:35 P.M. **Session Distillation and Potential Next Steps**

Wylie Burke
Professor and Chair,
Department of Bioethics and Humanities,
University of Washington

SESSION IV: THE ROLE OF ADVOCACY IN FACILITATING BASIC SCIENTIFIC RESEARCH

Discussion Provocateur: Sharon F. Terry, Genetic Alliance

2:35–2:55 P.M.

Purpose of Advocacy – Helping to Solve Important Problems

Pat Furlong
Founding President and Chief Executive Officer,
Parent Project Muscular Dystrophy

2:55–3:15 P.M.

Bridging the gap between basic and clinical research

Todd Sherer
Chief Executive Officer,
The Michael J. Fox Foundation for Parkinson's Research

3:15–4:05 P.M.

Discussion with Speakers and Attendees

4:05–4:10 P.M.

Session Distillation and Potential Next Steps

Sharon F. Terry
President and CEO,
Genetic Alliance

4:10–4:25 P.M.

BREAK

SESSION V: NEXT STEPS

4:25–5:30 P.M.

LEADING THE STRATEGY FOR MORE EFFICIENT AND EFFECTIVE TRANSLATION

Discussion Provocateur: Geoffrey Ginsburg, Duke University

Discussants:

William Rutter
Chief Executive Officer,
Synergenics

Daniel H. Geschwind
Gordon and Virginia MacDonald Distinguished Chair in Human
Genetics and Professor of Neurology and Psychiatry,
University of California, Los Angeles School of Medicine

Geoff Duyk
Partner and Managing Director,
TPG Biotech

Todd Sherer
Chief Executive Officer,
The Michael J. Fox Foundation for Parkinson's Research

SESSION VI: CONCLUSION

5:30–5:45 P.M.

CONCLUDING REMARKS

Wylie Burke, *Roundtable Co-Chair*
Professor and Chair,
Department of Bioethics and Humanities,
University of Washington

Sharon F. Terry, *Roundtable Co-Chair*
President and CEO,
Genetic Alliance

5:45 P.M.

ADJOURN