

All things considered -- biospecimens, 'omics data, and ethical issues

9:00 am to 5:00 pm, All are invited, Webcast is available

05/20/2015 - 05/21/2015

Genotype Tissue Expression (GTEx) Symposium:

All things considered -- biospecimens, 'omics data, and ethical issues

May 20 and 21, 2015

Natcher Conference Center (Building 45)

Kirschstein Auditorium

National Institutes of Health

Bethesda, Maryland

Agenda

Wednesday, May 20, 2015

8:30 – 9:00 Genomics and the Precision Medicine Initiative

Eric Green, M.D., Ph.D., Director, National Human Genome Research Institute

Session 1: Overview of GTEx

Chair: Susan Koester, Ph.D., National Institute of Mental Health

9:00 – 9:30 Overview of GTEx: the Big Picture

Simona Volpi, Pharm.D., Ph.D., National Human Genome Research Institute

9:30 – 10:00 Establishing the approach for GTEx biospecimen collections

Helen Moore, Ph.D., National Cancer Institute

10:00 – 10:20 BREAK

Session 2: It's all about the donors

Chair: Nicole Lockhart, Ph.D., National Human Genome Research Institute

10:20 – 11:30 Attitudes towards donations for research purposes
Laura Siminoff, Ph.D., Temple University
K. Laura Barker, M.A., Virginia Commonwealth University

11:30 – 12:00 PANEL DISCUSSION 1

ELSI issues in GTEx
Laura Siminoff, Carol Weil, J.D. (NCI), Rebecca Pentz, Ph.D. (Emory),
K. Laura Barker

12:00 – 1:00 LUNCH

Session 3 Partnering with Organ Procurement Organizations

Abhi Rao, Ph.D., National Cancer Institute

1:00 – 2:00 Organ Procurement Organizations: a resource for research tissues
Jeff Thomas, National Disease Research Interchange
Barbara Foster, Ph.D. Roswell Park Cancer Institute

2:00 – 2:30 Novel operations and infrastructure for GTEx
Scott Jewell, Ph.D., The Van Andel Research Institute

2:30 – 3:00 Quality assessment and dissection of brain tissues for GTEx
Deborah Mash, Ph.D., The Miami Brain Bank

3:00 – 3:20 PANEL DISCUSSION 2

Tissues explored: biospecimens from organ and tissue donors
Jeff Thomas, Barbara Foster, Scott Jewell, Deborah Mash

3:20 – 3:45 BREAK

Session 4 Building IT and infrastructure for biospecimen collections

Chair: Ping Guan, Ph.D., National Cancer Institute

3:45 – 4:15 The Comprehensive Data Resource (CDR): using IT to enable scientific collections
Charlie Shive, Leidos Biomedical

4:15 – 4:45 Operational Management of GTEx: Applying High Standards to Achieve High Quality Biospecimens
Anita Undale, M.D., Ph.D., Leidos Biomedical

END OF DAY 1

Thursday, May 21, 2015

8:30-8:40 Day Two Welcome

Thomas R. Insel, M.D., National Institute of Mental Health; GTEx Co-chair

8:40-8:50 Brief Remarks from NIH Common Fund

James M. Anderson, M.D., Ph.D., NIH Division of Program Coordination, Planning, and Strategic Initiatives

Session 5 What is a "normal" tissue?

Chair: Latarsha Carithers, Ph.D., National Cancer Institute

8:50 – 9:20 Tissue quality: Histopathology

Les Sobin, M.D., Leidos Biomedical

9:20 – 9:50 Incidental Findings in GTEx

Philip Branton, M.D., National Cancer Institute

9:50 – 10:00 GTEx Incidental Findings Policy

Helen Moore, Ph.D., National Cancer Institute

10:00 – 10:25 BREAK

10:25 – 11:10 The GTEx molecular analysis pipeline

Kristin Ardlie, Ph.D., the Broad Institute of MIT and Harvard

11:10- 11:40 The GTEx Biospecimen Methodological Study

David DeLuca, M.S., D.Sc., The Broad Institute of MIT and Harvard

11:40 – 12:10 PANEL DISCUSSION 3

Pathology of normal biospecimens

Les Sobin, Philip Branton, Mary Barcus, Kristin Ardlie, Helen Moore, David DeLuca

12:10 – 1:25 LUNCH

Session 6 The Science of GTEx

Chair: Jeffery Struewing, M.D., M.S., National Human Genome Research Institute

1:25 - 2:10 Multi-tissue transcriptome analysis in a population sample: the Genotype-Tissue

Expression (GTEx) pilot study

Tuuli Lappalainen, Ph.D., New York Genome Center & Columbia University

2:10 – 2:55 Using GTEx to validate and prioritize rare variant discoveries made in sequencing

studies for common and rare diseases
Nancy Cox, Ph.D., Vanderbilt University

2:55 – 3:40 GTEx and Cancer

Gad Getz, Ph.D., Massachusetts General Hospital

3:40 – 4:10 PANEL DISCUSSION 4

The Science of GTEx

Nancy Cox, Gad Getz, Tuuli Lappalainen, Susan Koester, Simona Volpi, Jeffery Struewing

4:10 – 4:25 Looking forward

END OF DAY 2 AND THE GTEx SYMPOSIUM