



TODD GOLUB is a founding core member of the Broad Institute and serves as the institute's chief scientific officer and director of its Cancer Program.

Golub is a world leader in understanding the basis of cancer, by creating and applying tools of genomics. He has made fundamental discoveries in the molecular basis of childhood leukemia, and laid the foundation for the diagnosis and classification of human cancers using gene expression analysis. He also pioneered the development of chemical screening approaches based on gene expression.

He joined the faculty of the Dana-Farber Cancer Institute and Harvard Medical School in 1997. At the same time he served as the leader of cancer genomics at the Whitehead Institute/MIT Center for Genome Research, which evolved into the Cancer Program at the Broad Institute, which he has directed since 2004. Golub is currently the Charles A. Dana Investigator in Human Cancer Genetics at the Dana-Farber Cancer Institute, professor of pediatrics at Harvard Medical School, and a Howard Hughes Medical Institute investigator.

He is the recipient of multiple awards, including the Erasmus Hematology Award, the Richard and Hinda Rosenthal Memorial Award and the Outstanding Achievement Award from the American Association for Cancer Research, the Paul Marks Prize for Cancer Research, the E. Mead Johnson Award from the Society for Pediatric Research, and the Judson Daland Prize for Outstanding Achievement in Clinical Investigation from the American Philosophical Society.

Golub serves on the Board of Directors of the Damon Runyon Cancer Research Foundation and the American Association for Cancer Research. He also serves on the scientific advisory boards of the Sanford-Burnham Medical Research Institute, the Wistar Institute, and St. Jude Children's Research Hospital. He also serves as Chair of the Board of Scientific Advisors of the National Cancer Institute. Golub received his B.A. from Carleton College and his M.D. from the University of Chicago Pritzker School of Medicine. He completed his internship, residency, and fellowship training at Children's Hospital Boston and the Dana-Farber Cancer Institute.



Gerstner Sloan Kettering Graduate School of Biomedical Sciences

BIENNIAL RETREAT

April 25–26, 2014



Skytop Lodge

Skytop, Pennsylvania

Louis V. Gerstner, Jr. Graduate School of Biomedical Sciences
Memorial Sloan Kettering Cancer Center

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Friday, April 25, 2014

9:45 AM – 10:00 AM

CONTINENTAL BREAKFAST: Garden View Lobby

9:45 AM – 10:00 AM

OPENING REMARKS: Ken Marians

10:00 AM – 11:00 AM

SESSION I: Student & Faculty Talks

11:00 AM – 11:15 AM

BREAK

11:15 AM – 12:45 PM

SESSION II: Student & Faculty Chalk Talks

1:00 PM – 2:00 PM

LUNCH - Windsor Dining Room

2:00 PM – 3:30 PM

POSTER SESSION - Hemlock Ballroom

3:30 PM – 6:00 PM

FREE TIME

6:00 PM – 6:30 PM

WINE & CHEESE

6:30 PM – 7:30 PM

KEYNOTE: Todd R. Golub

7:45 PM – 9:00 PM

DINNER - Windsor Dining Room

9:30 PM

ENTERTAINMENT

Saturday, April 26, 2014

7:00 AM – 11:30 AM

BREAKFAST & FREE TIME - Windsor Dining Room

11:30 AM – 1:00 PM

SESSION III: Student & Faculty Talks

1:00 PM – 2:00 PM

LUNCH - Windsor Dining Room

2:00 PM – 3:00 PM

SESSION IV: "Hot Topics" in Science Panel

3:00 PM – 3:15 PM

BREAK

3:15 PM – 4:30 PM

SESSION V: Student & Faculty Talks

5:00 PM

BUS DEPARTS FOR MSK

All Sessions are held at the
West Central Evergreen Ballroom

Session I

MODERATOR: Catherine Konopacki

Joao Xavier, Immunology
Experimental evolution in bacteria

Jenny Karo, Joseph Sun, Immunology
The RAG recombinase dictates functional heterogeneity and cellular fitness in natural killer cells

Marta Kovatcheva, Andy Koff, Molecular Biology
Using clinical insight to drive biologic discovery: A new pathway to senescence

Session II

MODERATOR: Scott Callahan

John Petrini, Molecular Biology
The DNA Damage response: a double edged sword.

Piero Sanfilippo, Eric Lai, Developmental Biology
Regulation of alternate length 3'UTRs: insights from evolution

Richard White, Cancer Biology & Genetics
Metastasis in the zebrafish system

Robert Bowman, Johanna Joyce, Cancer Biology & Genetics
Transcriptional profiling of ontogenetically distinct macrophages in glioblastoma

Keynote

Todd R. Golub
Broad Institute of MIT and Harvard & HHMI Investigator
Genomic approaches to cancer

Session III

MODERATOR: Kinisha Gala

Lindsay LaFave, Ross Levine, Human Oncology & Pathogenesis
Using hematopoiesis as a model to study BAP1-mutant disease

Michael Overholtzer, Cell Biology
Cell engulfment-induced cell death

Shefali Krishna, Michael Overholtzer, Cell Biology
Nutrient export and lysosome reformation during phagocytosis and entosis

Lei Wei, Xiaolan Zhao, Molecular Biology
The role of sumoylation in DNA replication

Session IV

MODERATOR: Jens Hamann

PANELISTS

Daniel Heller, Molecular Pharmacology & Chemistry Program
Richard White, Cancer Biology & Genetics
Andrew Koff, Molecular Biology

Session V

MODERATOR: Mary Klein

Charles Rudin, Human Oncology & Pathogenesis Program
New approaches to the treatment of small cell lung cancer

Elizabeth Wasmuth, Christopher Lima, Structural Biology
RNA decay: 3' processing by the exosome

Yilong Zou, Joan Massagué, Cancer Biology & Genetics
A conserved enhancer program mediates Activin-dependent embryonic stem cell differentiation