

Days of Molecular Medicine: Emerging Technologies and Cancer Biology
Cambridge, Massachusetts
May 22nd - 24th, 2007

Tuesday, May 22nd

Starts at Noon

Registration

3:00 PM

Opening Remarks:
Randall Peterson, The Cardiovascular Research Center, Massachusetts General Hospital / Harvard Medical School
Juan Carlos Lopez, Editor, *Nature Medicine*
Jesper Z. Haeggström, Department of Medical Biochemistry and
Biophysics, Karolinska Institutet

3:15 PM

Keynote Address
Chair: Daniel Haber -The Cancer Center, Massachusetts General Hospital

Ralph Weissleder - Center for Molecular Imaging, Massachusetts General Hospital / Harvard Medical School
Emerging Technologies to Study Cancer Biology

4:00 - 6:00 PM

Poster Session I / Welcome Reception

6:00 PM

Speaker Dinner

Wednesday, May 23rd

8:00 AM

Breakfast / Registration

Session 1 Novel Technology and Cancer Therapeutics I

Chairs: Ingemar Ernberg, Microbiology & Tumor Biology Center,
Karolinska Institutet

Paul Workman - Cancer Research Centre for Cancer Therapeutics,
The Institute of Cancer Research, Sutton, UK

- 9:00 AM Daniel Haber - The Cancer Center, Massachusetts General Hospital
Bringing Genetics into Cancer Therapy: Implications and Challenges
- 9:30 AM Stephen Fesik - Divisional Vice President, Cancer Research, Abbott
Discovery of Bcl-2 Family Inhibitors for the Treatment of Cancer
- 10:00 AM Renata Pasqualini - MD Anderson Cancer Center, University of Texas
Targeting Human Vascular and Lymphatic Zip Codes: Novel Approaches Based on In Vivo Phage Display Technology
- 10:30 AM Break
- 11:00 AM Sean Morrison - Center for Stem Cell Biology, University of Michigan Medical School
Stem Cell Identity and Self-Renewal
- 11:30 AM Short Talk:
Maarten Corsten - Cardiovascular Research Institute Maastricht, the Netherlands
Annexin A5 Targeted Cytotoxic Liposome with In Vivo Anti-Tumor Activity
- 11:45 AM Short Talk:
Sara Orgad - Department of Molecular Microbiology and Biotechnology, Tel-Aviv University
TAR1, a Human Anti p53 Single-Chain Antibody, Restores Tumor Suppressor Function to Mutant p53 Variants
- Noon Lunch / Poster Session I

Session 2 Novel Technology and Cancer Therapeutics II

Chairs: Klas Wiman, Karolinska Institutet

Juan Carlos Lopez, Editor, *Nature Medicine*

- 1:30 PM Judith Sebolt-Leopold - Executive Director, Mechanistic & Target
Biology Pfizer (USA)
The Central Role of Translational Biomarkers in Development of Molecular-Targeted Cancer Therapies
- 2:00 PM Paul Workman - Cancer Research Centre for Cancer Therapeutics,
The Institute of Cancer
Drugging the Cancer Genome: Targets, Tools and Technologies
- 2:30 PM Robert Langer - Department of Chemical Engineering, Massachusetts Institute of Technology
Drug Delivery Systems for Cancer
- 3:00 PM Mathias Uhlen - Department of Proteomics, Royal Institute of Technology, Sweden
A Human Protein Atlas
- 3:30 PM Break
- 4:00 - 6:00 PM Forum: *Cancer and Cardiovascular Disease in Global Health*
- Speakers*
Keynote Speaker:
- 4:00 PM Hans Rosling - Department of Public Health Sciences, Karolinska Institute
An Evidenced Based View of Global Health
- 4:30 PM Chris Murray - Harvard Initiative for Global Health, Harvard University
- 5:00 PM Kenneth Chien - Cardiovascular Research Center, Massachusetts General Hospital
Heart Disease in China: The Coming Epidemic
- 5:30 - 6:30 PM ROUNDTABLE / PANEL
Moderator
Dennis Ausiello - Chief of Medicine, Massachusetts General Hospital / Harvard Medical School

Participants

Charles Baum - Vice President and Head of Oncology Development, Pfizer
Louise Grochow - Senior Director Clinical Research, AstraZeneca
Bruce Walker - Director, Infectious Disease Research, Massachusetts General Hospital
Hans Rosling - Department of Public Health Sciences, Karolinska Institute
Kenneth Chien - Cardiovascular Research Center, Massachusetts General Hospital
Chris Murray - Harvard Initiative for Global Health, Harvard University

6:30-8:00 PM

Poster Session II / Reception

Thursday, May 24th

7:45 AM

Breakfast / Registration

Session 3 Molecular Imaging

Chairs: Maria Koehler, Executive Director, Oncology-MDC, Clinical Development, GlaxoSmithKline

Michael Basson, Editor, *Nature Medicine*

8:30 AM

Rakesh Jain - Massachusetts General Hospital, Harvard Medical School
Normalization of Tumor Vasculature

9:00 AM

Christopher H. Contag - Department of Pediatrics and Program in Molecular Imaging, Stanford University
Refining Mouse Models of Cancer through Molecular Imaging

9:30 AM

Anders Brahme - Department of Oncology and Pathology, Karolinska Institute
New Molecular Approaches in Tumor Imaging and Biologically Optimized Cancer Therapy using Light Ions

10:00 AM

Break

Nobutaka Hirokawa - Department of Cell Biology and Anatomy,
Graduate School of Medicine, University of Tokyo

10:30 AM

Intracellular Transport and Kinesin Superfamily Proteins, KIFs: Structure, Dynamics and Function

Short Talk:

11:00 AM

Alberto Bilenca - Wellman Center for Photomedicine, Harvard Medical School
A New Imaging Paradigm: Molecular Coherence Microscopy

Session 4 Computational and Systems Biology

Chairs: Kenneth Chien, Cardiovascular Research Center, Massachusetts General Hospital
Jesper Z. Haeggström, Department of Medical Biochemistry and Biophysics, Karolinska Institutet

11:15 AM

Todd Golub - Cancer Program, The Broad Institute of Harvard and Massachusetts Institute of Technology
Molecular Signatures for Cancer Discovery

11:45 AM

Arul Chinnaiyan - Pathology Department, University of Michigan
Bioinformatics as an Engine for Oncology Discovery

12:15-1:15 PM

Lunch / Poster Session II

1:15 PM

Joe Gray - Comprehensive Cancer Center, University of California, San Francisco
A Systems Approach to Marker Guided Therapy

1:45 PM

Hiroaki Kitano - Systems Biology Institute, Japan
Robustness-based approach for systems-oriented drug design: Toward "Long-Tail Drugs"

2:15 PM

Break

Session 5 Chemical Biology

Chairs: Joe Gray, Comprehensive Cancer Center, University of California, San Francisco
Joe Gray, Comprehensive Cancer Center, University of California, San Francisco

2:45 PM

Randall Peterson, The Cardiovascular Research Center, Massachusetts General Hospital / Harvard Medical School
Discovering Small Molecule Modifiers of Disease by Large-Scale, In vivo Screening

3:15 PM

Omid Farohkzad, Department of Anesthesiology, Brigham and Women's Hospital and Harvard Medical School
Multifunctional Nanoparticles for Medical Applications

Short Talk

- 3:45 PM Jean-Pierre Vilardaga - Program in Membrane Biology and Endocrine Unit, Massachusetts General Hospital/Harvard Medical School
Direct Measurement of Drug Efficacies at G- Protein Coupled Receptors
- 4:00 PM Stuart Schreiber - Chemical Biology Program, The Broad Institute of Harvard and Massachusetts Institute of Technology
Building a Small-Molecule Discovery Pipeline
- 4:30 PM Closing Remarks:
Kenneth Chien, Cardiovascular Research Center, Massachusetts General Hospital / Harvard Medical School
Jesper Z. Haeggström, Department of Medical Biochemistry and Biophysics, Karolinska Institutet
Sue Deeley, Nature Publishing Group
- 6:30 PM Gala Dinner

