

The Eli Glatstein, MD Translational Research Conference: New Paradigms in Radiation Oncology

A CME-certified Course

**Friday - Saturday
October 31 - November 1, 2008**

The Ritz-Carlton

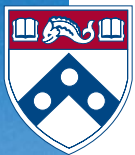
Ten Avenue of the Arts, Philadelphia, PA

presented by



**UNIVERSITY OF
PENNSYLVANIA**
Abramson Cancer Center

and the
**Department of
Radiation Oncology**



**UNIVERSITY OF
PENNSYLVANIA
HEALTH SYSTEM**

**Abramson Cancer Center
of the University of Pennsylvania**

3400 Spruce Street - 16 Penn Tower
Philadelphia PA 19104-4283



**The Eli Glatstein, MD
Translational Research
Conference: New Paradigms
in Radiation Oncology**

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Ten Avenue of the Arts, Philadelphia, PA

PRESORTED
First Class
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Conference Overview

This symposium is designed to present state-of-the-art advances in translational research in radiation oncology and photodynamic therapy. Nationally and internationally recognized Penn faculty and guest speakers will provide insight into the latest advancements in their respective fields.

Conference Objectives

Upon completion of this activity, participants will be able to:

- 1) Describe current research relating to the molecular responses of tissues to ionizing radiation, chemotherapy and biological agents with the goal of improving the control of tumors with radiation and/or increasing the radioprotection of normal tissues
- 2) Explain current research relating to the tumor microenvironment and how this knowledge could be used to improve the response of tumors to radiation
- 3) Discuss the status and future direction of functional imaging as applied to radiation oncology
- 4) Discuss the applications of photodynamic therapy in the treatment of malignancies
- 5) Explain the use of proton beam therapy in treating patients with cancer

Who Should Attend

Radiation oncologists, radiation biologists, radiation physicists, medical oncologists, surgical oncologists, radiation oncology residents and fellows, radiation oncology nurses and other health professionals involved in the field of radiation oncology.

Faculty CO-CHAIRS

Keith A. Cengel, MD, PhD
Assistant Professor, Radiation Oncology
Director, Photodynamic Therapy Program
Abramson Cancer Center
of the University of Pennsylvania

Lilie Lin, MD
Assistant Professor, Radiation Oncology
Abramson Cancer Center
of the University of Pennsylvania

Amit Maity, MD, PhD
Associate Professor, Radiation Oncology
Abramson Cancer Center
of the University of Pennsylvania
Chief of Radiation Therapy
Philadelphia Veterans
Administration Medical Center

GUEST FACULTY

Mitchell S. Anscher, MD, FACR, FACRO
Professor and Florence
and Hyman Meyers Chair
Department of Radiation Oncology
Virginia Commonwealth University
School of Medicine
Richmond, VA

Prof. Dr. Harry Bartelink
Professor and Chairman
Division of Radiotherapy
The Netherlands Cancer Institute
Antoni van Leeuwenhoek Hospital
Amsterdam

Bruce A. Chabner, MD
Professor, Department of Medicine
Harvard Medical School
Clinical Director, MGH Cancer Center
Massachusetts General Hospital
Boston, MA

C. Norman Coleman, MD
Associate Director
Radiation Research Program
National Cancer Institute
Bethesda, MD
Senior Medical Advisor
Office of Assistant Secretary
for Preparedness and Response
Department of Health and Human Services
Washington, DC

Laura A. Dawson, MD, FRCPC
Associate Professor
Department of Radiation Oncology
Princess Margaret Hospital
University Health Network
Toronto, Ontario

REGISTRATION FORM

The Eli Glatstein, MD Translational Research Conference: New Paradigms in Radiation Oncology October 31 - November 1, 2008

Please print or type, or you can register on-line at <http://www.oncolink.org/conference/egtrc>

FIRST NAME

LAST NAME

ACADEMIC DEGREE

MEDICAL SPECIALTY

AFFILIATION (HOSPITAL, OFFICE OR COMPANY)

E-MAIL

ADDRESS (AFFILIATION HOME)

CITY

STATE

ZIP

PHONE

FAX

- \$475 - Practicing physicians
- \$225 - Nurses, radiation therapists, and other health care professionals
- No fee for faculty, staff, fellows & students of the University of Pennsylvania
- Non-Penn residents and fellows (Please email or call for special course rate.)

Payment Method

Make checks payable to:

Trustees, University of Pennsylvania

Or Credit Card Payments: For security purposes, please register on-line at <http://www.oncolink.org/conference/egtrc> if you are paying with a credit card. We accept Visa, Discover, MasterCard and American Express.

Mail payment and registration to:

Mary Graham
**Abramson Cancer Center of
the University of Pennsylvania**
3400 Spruce St. - 16 Penn Tower
Philadelphia, PA 19104-4283
P: 215-662-7328 • F: 215-614-1854
Email: grahamm@mail.med.upenn.edu

SERVICES FOR THE DISABLED:

If special arrangements are required for an individual with a disability to attend this conference, please contact Mary Graham at 215-662-7328 or grahamm@mail.med.upenn.edu no later than Friday, October 17, 2008.

Thomas F. DeLaney, MD
Associate Professor,
Radiation Oncology
Harvard Medical School
Medical Director, Francis H. Burr
Proton Therapy Center
Massachusetts General Hospital
Boston, MA

Dennis E. Hallahan, MD
Chairman, Radiation
Oncology Center
Ingram Professor of Cancer Research
Professor of Cancer Biology
Vanderbilt University
Nashville, TN

Theodore S. Lawrence MD, PhD
Isadore Lampe Professor and Chair
Department of Radiation Oncology
University of Michigan
Ann Arbor, MI

Quynh-Thu Le, MD
Professor and Clinical
Research Director
Department of Radiation Oncology
Stanford University
Stanford, CA

W. Gillies McKenna, MD, PhD
Director, Gray Institute for
Radiation Oncology and Biology
Honorary Director, MRC Radiation
Oncology and Biology Unit
University of Oxford
England

John D. Minna, MD
Professor, Departments of Internal
Medicine and Pharmacology
Director, Hamon Center for
Therapeutic Oncology Research
University of Texas Southwestern
Medical Center
Dallas, TX

James B. Mitchell, PhD
Head, Tumor Biology Section
Chief, Radiation Biology Branch
National Cancer Institute
Bethesda, MD

Steven A. Rosenberg MD, PhD
Chief, Surgery
National Cancer Institute
Bethesda, MD

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Chief, Nuclear Medicine
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and Oncologic Surgery
Deputy Director
Clinical Services and Programs
Vice Chair, Clinical Affairs
Abramson Cancer Center
of the University of Pennsylvania

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Abramson Cancer Center
of the University of Pennsylvania
Chief, Division of Thoracic Surgery
Penn Presbyterian Medical Center

Eli Glatstein, MD
Professor and Vice Chairman
Radiation Oncology
Abramson Cancer Center
of the University of Pennsylvania

John H. Glick, MD
Professor, Medicine
President, Abramson Family
Cancer Research Institute
Vice President, UPHS and Associate
Dean for Resource Development

Stephen M. Hahn, MD
Henry K. Pancoast Professor
and Chair
Radiation Oncology
Abramson Cancer Center
of the University of Pennsylvania

Ann R. Kennedy, DSc
Richard Chamberlain Professor
of Research Oncology
Abramson Cancer Center
of the University of Pennsylvania

Costas Koumenis, PhD
Associate Professor
of Radiation Oncology
Abramson Cancer Center
of the University of Pennsylvania

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Clinical Radiation Oncology
Abramson Cancer Center
of the University of Pennsylvania

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Radiation Oncology
Director, Clinical Strategy
and Operations
Dept. of Radiation Oncology
Editor-in-Chief, Oncolink
Abramson Cancer Center
of the University of Pennsylvania

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Abramson Cancer Center
of the University of Pennsylvania

M. Celeste Simon, PhD
Scientific Director and Investigator
Abramson Family Cancer
Research Institute
Investigator, Howard Hughes
Medical Institute
Professor, Cell and
Developmental Biology
University of Pennsylvania
School of Medicine

Craig B. Thompson, MD
Professor, Medicine
and Cancer Biology
Director, Abramson Cancer Center
of University of Pennsylvania
Associate Vice President
of Cancer Services for the
University of Pennsylvania
Health System

Zelig A. Tochner, MD
Associate Professor
Radiation Oncology
Director, Proton Therapy Project
Abramson Cancer Center
of the University of Pennsylvania

Accreditation

The University of Pennsylvania
School of Medicine is accredited
by the Accreditation Council for
Continuing Medical Education
(ACCME) to provide continuing
medical education for physicians.

Designation of Credit

The University of Pennsylvania
School of Medicine designates this
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of 11.75 *AMA PRA Category 1*
Credits[™]. Physicians should only
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in the activity.

Disclosures

The University of Pennsylvania
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adheres to the *ACCME Standards*
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disclosure information will be made
available during the activity. Faculty
members are also expected to dis-
close to participants any discussion
of off-label and/or investigational
use of pharmaceutical products or
devices during their presentations.

Registration

The registration fee for practicing
physicians is \$475.00. For nurses,
radiation therapists, and other health
care professionals, the registration fee
is \$225.00. There is no fee for faculty,
staff, residents, fellows, and students
of the University of Pennsylvania.
Non-Penn residents and fellows,
please call for the special course
rate. Registration includes tuition,
continental breakfast, lunch, coffee
breaks, dinner and program syllabus.
Registration forms may be mailed to:

Mary Graham, Abramson
Cancer Center of the University of
Pennsylvania, 3400 Spruce Street,
16 Penn Tower, Philadelphia,
PA 19104. Registrations may also
be faxed to 215-614-1854 or
completed online at <http://www.oncolink.org/conference/egtrc>.
Online registration is required
for credit card payments.

Location & Accommodations

This conference will be held at
The Ritz-Carlton, Ten Avenue of
the Arts, Philadelphia, PA. To
receive the group rate of \$250
plus 14% tax for a single/double
occupancy, please contact the
hotel directly at 1-800-241-3333
by September 30, 2008 and refer
to the Abramson Cancer Center.
Reservations may also be made
on the reservations page of
www.ritzcarlton.com by entering
group code CMECEA. For further
information, please contact Mary
Graham at 215-662-7328 or
grahamm@mail.med.upenn.edu.

Cancellation Policy

The University of Pennsylvania
reserves the right to cancel or
postpone any course due to
unforeseen circumstances. In
the event of cancellation or
postponement, the University
will notify all pre-registrants but
is not responsible for any related
costs or expenses to participants,
including cancellation fees assessed
by hotels, airlines and travel
agencies. In order to process refunds
for course withdrawals, we must
receive cancellations in writing by
Friday, October 17, 2008.

Nondiscrimination Statement

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of Pennsylvania does not
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Director, Office of Affirmative
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Programs, 3600 Chestnut Street,
Samson Place East, Suite 228,
Philadelphia, PA 19104-6106
or 215-898-6993 (Voice)
or 215-898-7803 (TDD).

Conference Agenda

Friday, October 31, 2008

9:00AM - 12:00PM

Guided Tours of the Perelman Center for Advanced Medicine

12:00PM - 1:00PM

Registration and box lunches at The Ritz Carlton

1:00PM - 1:15PM

Welcome and Opening Remarks

*Stephen M. Hahn, MD
Eli Glatstein, MD*

SESSION I – COMBINED MODALITY THERAPY

Moderator: Ramesh Rengan, MD, PhD

1:15PM - 1:45PM

Mechanisms of Synergy Between Radiation Therapy and Chemotherapy

Craig B. Thompson, MD

1:45PM - 2:15PM

Integrating EGFR Inhibitors with Chemoradiation

Theodore S. Lawrence, MD, PhD

2:15PM - 2:30PM

Combined Modality Therapy with Nelfinavir for NSCLC: A Novel Approach to Radiosensitization

Ramesh Rengan, MD, PhD

2:30PM - 3:00PM

Targeted Therapy at the Crossroads

Bruce A. Chabner, MD

3:00PM - 3:15PM

Panel Discussion with Question and Answer Session

*Moderator: Ramesh Rengan, MD, PhD
Panel: Craig B. Thompson, MD
Theodore S. Lawrence, MD, PhD
Bruce A. Chabner, MD*

3:15PM - 3:35PM

BREAK

SESSION II – PHOTODYNAMIC THERAPY/IMMUNOTHERAPY

Moderator: Keith A. Cengel, MD, PhD

3:35PM - 3:50PM

History of PDT at Penn

Eli Glatstein, MD

3:50PM - 4:05PM

PDT for Malignancies Involving the Pleura

Joseph S. Friedberg, MD

4:05PM - 4:20PM

Surgical Aspects of Intraperitoneal PDT

Douglas L. Fraker, MD, FACS

4:20PM - 4:35PM

Targeting Cancer Cell Survival Pathways Following PDT: From Bedside to Bench

Keith A. Cengel, MD, PhD

4:35PM - 4:50PM

Overcoming Heterogeneity in PDT Response

Theresa M. Busch, PhD

4:50PM - 5:15PM

The Development of Immunotherapy for Patients with Cancer

Steven A. Rosenberg, MD, PhD

5:15PM - 5:30PM

Panel Discussion with Question and Answer Session

*Moderator: Keith A. Cengel, MD, PhD
Panel: Eli Glatstein, MD*

Joseph S. Friedberg, MD

Douglas L. Fraker, MD, FACS

Theresa M. Busch, PhD

Steven A. Rosenberg, MD, PhD

This concludes the CME-certified portion for the day.

6:00PM - 7:00PM

Cocktail Reception to Honor Dr. Eli Glatstein with Introductory

Remarks by John H. Glick, MD

7:00PM - 9:00PM

Dinner and Presentation – Radiation Oncology: The Road Not Taken

C. Norman Coleman, MD

Eli Glatstein, MD

Saturday, November 1, 2008

7:00AM - 7:30AM

Registration and Continental Breakfast

SESSION III – TUMOR MICROENVIRONMENT AND CANCER THERAPY

Moderator: Amit Maity, MD, PhD

7:30AM - 7:50AM

Hypoxia, HIFs, and Tumor Progression

M. Celeste Simon, PhD

7:50AM - 8:05AM

Imaging Hypoxia in Human Cancer

Stephen M. Hahn, MD

8:05AM - 8:20AM

Modulating the Tumor Microenvironment to Improve Radiation Therapy

Amit Maity, MD, PhD

8:20AM - 8:40AM

Targeting Nanoparticle Drug Delivery by Use of Ionizing Radiation

Dennis E. Hallahan, MD

8:40AM - 8:55AM

Panel Discussion with Question and Answer Session

*Moderator: Amit Maity, MD, PhD
Panel: M. Celeste Simon, PhD*

Stephen M. Hahn, MD

Dennis E. Hallahan, MD

8:55AM - 9:05AM

BREAK

SESSION IV – MOLECULAR ASPECTS OF RADIATION ONCOLOGY

Moderator: Costas Koumenis, PhD

9:05AM - 9:30AM

Molecular Biology in Radiation Oncology

W. Gillies McKenna, MD, PhD

9:30AM - 9:50AM

Relationship Between HPV Status and Other Molecular Prognostic Markers in Head and Neck Squamous Cell Carcinomas

Quynh-Thu Le, MD

9:50AM - 10:05AM

Screening Approaches for the Development of Novel Radiosensitizers: From the Bench to Preclinical Models

Costas Koumenis, PhD

10:05AM - 10:25AM

Predicting Treatment Outcome in Breast Cancer

Prof. Dr. Harry Bartelink

10:25AM - 10:40AM

Panel Discussion with Question and Answer Session

Moderator: Costas Koumenis, PhD

Panel: W. Gillies McKenna, MD, PhD

Quynh-Thu Le, MD

Prof. Dr. Harry Bartelink

10:40AM - 10:50AM

BREAK

SESSION V – IMAGING IN RADIATION ONCOLOGY

Moderator: Lilie Lin, MD

10:50AM - 11:10AM

Advances in Image Guided Radiation Therapy

Laura A. Dawson, MD, FRCPC

11:10AM - 11:25AM

Functional Tumor Evaluation with MRI: Implications for Radiation Oncology

Mark A. Rosen, MD, PhD

11:25AM - 11:40AM

Hypoxic Imaging Research: A Faith Based Initiative

Lilie Lin, MD

11:40AM - 11:55AM

Nuclear Medicine in Radiation Oncology

Chaitanya R. Divgi, MD

11:55AM - 12:10PM

Panel Discussion with Question and Answer Session

Moderator: Lilie Lin, MD

Panel: Laura A. Dawson, MD, FRCPC

Mark A. Rosen, MD, PhD

Chaitanya R. Divgi, MD

12:10PM - 1:10PM

LUNCH

Lung Cancer Expression Profiles for Predicting Response to Chemotherapy and Radiotherapy

John D. Minna, MD

SESSION VI – RADIATION EFFECTS ON NORMAL TISSUE/ RADIOPROTECTION

Moderator: James M. Metz, MD

1:10PM - 1:35PM

Translational Studies with Nitroxides at the NCI

James B. Mitchell, PhD

1:35PM - 1:50PM

Tempol to Prevent Radiation-Induced Alopecia

James M. Metz, MD

1:50PM - 2:10PM

Targeting the TGF β Pathway to Prevent Normal Tissue Injury

Mitchell S. Anscher, MD, FACS, FACRO

2:10PM - 2:25PM

Panel Discussion with Question and Answer Session

Moderator: James M. Metz, MD

Panel: James B. Mitchell, PhD

Mitchell S. Anscher, MD, FACS, FACRO

SESSION VII – PROTON BEAM THERAPY

Moderator: James E. McDonough, PhD

2:25PM - 2:50PM

Overview of the Massachusetts General Hospital Proton Therapy Program

Thomas F. DeLaney, MD

2:50PM - 3:05PM

Prevention of Proton Radiation-Induced Adverse Biological Effects

Ann R. Kennedy, DSc

3:05PM - 3:20PM

Proton Therapy with Scanned Beams

James E. McDonough, PhD

3:20PM - 3:35PM

Clinical Trials with Proton Beam Therapy

Zelig A. Tochner, MD

3:35PM - 3:50PM

Panel Discussion with Question and Answer Session

Moderator: James E. McDonough, PhD

Panel: Thomas F. DeLaney, MD

Ann R. Kennedy, DSc

Zelig A. Tochner, MD

3:50PM - 4:00PM

Closing Remarks

Stephen M. Hahn, MD

Eli Glatstein, MD