AACR Translational Cancer Research for Basic Scientists Workshop
November 17-22, 2019
Hilton Boston Back Bay Hotel • Boston, MA

Course Directors:
George D. Demetri, MD, Dana-Farber Cancer Institute, Boston, MA
Susan Band Horwitz, PhD, Albert Einstein College of Medicine, Bronx, NY
Pasi A. Jänne, MD, PhD, Dana-Farber Cancer Institute, Boston, MA

Program Committee:
Peter C. Adamson, MD, The Children's Hospital of Philadelphia, Philadelphia, PA
Ryan B. Corcoran MD, PhD, Massachusetts General Hospital, Boston, MA
Lisa M. Coussens, PhD, OHSU Knight Cancer Institute, Portland, OR
Maureen T. Cronin, PhD, HTG Molecular Diagnostics, Inc., Tucson, AZ
Laurie H. Glimcher, MD, Dana-Farber Cancer Institute, Boston, MA
Jennifer R. Grandis, MD, University of California San Francisco, San Francisco, CA
Jennifer Guerriero, PhD, Dana-Farber Cancer Institute, Boston, MA
Geoffrey R. Oxnard, MD, Dana-Farber Cancer Institute, Boston, MA
Mark E. Robson, MD, Memorial Sloan Kettering Cancer Center, New York, NY

SUNDAY, NOVEMBER 17, 2019

2:00-7:30 p.m. Registration
Pre-Assembly Area (2nd Floor by the Belvidere Ballroom)

4:00-4:30 p.m. Welcome: A Conversation with the Course Directors
Belvidere Ballroom

Susan Band Horwitz, PhD, Albert Einstein College of Medicine, Bronx, NY
Pasi A. Jänne, MD, PhD, Dana-Farber Cancer Institute, Boston, MA

4:30-6:00 p.m. Workshop Alumni Panel - From Bench to Bedside: How to Translate a Basic Science Study to the Clinic

Abena Agyeman, PhD, U.S. Food and Drug Administration, Silver Spring, MD

Hua Fang, PhD, AbbVie Inc., Redwood City, CA

Aime Franco, PhD, Children’s Hospital of Philadelphia, Philadelphia, PA

Daotai Nie, PhD, Southern Illinois University School of Medicine, Springfield, IL

6:00-7:00 p.m. Opening Keynote Presentation
Belvidere Ballroom

New insights in technology in the future of translation
MONDAY, NOVEMBER 18, 2019

Chair of the Day: Mark E. Robson, MD, Memorial Sloan Kettering Cancer Center, New York, NY

7:00-8:00 a.m. Continental Breakfast
Westminster

8:00-8:30 a.m. Pre-Test (required)
Belvidere Ballroom

8:30-11:00 a.m. The Environment of Clinical Investigations
Belvidere Ballroom

8:30-9:00 a.m.
Clinical research: An overview
Peter C. Adamson, MD, The Children’s Hospital of Philadelphia, Philadelphia, PA

9:00-9:30 a.m.
Ethical conduct of translational research
Mark E. Robson, MD, Memorial Sloan Kettering Cancer Center, New York, NY

9:30-10:00 a.m
Protection of human research participants
Alison Bateman-House, PhD, MPH, MA NYU School of Medicine, New York, NY

10:00-10:30 a.m.
Why quantitative reasoning is important in translational cancer research
Mimi Kim, ScD, Albert Einstein College of Medicine, New York, NY

10:30-11:00 a.m.
Panel discussion and questions on the Environment of Clinical Investigations
11:00 a.m.-12:15 p.m. **Buffet Lunch**  
*Westminster*

12:20 p.m.  
**Meet by hotel side entrance to board the bus**

12:30-5:00 p.m. **Off-Site Laboratory Visits**  
*Dana-Farber Cancer Institute*  
*Transportation will be provided.*

- **12:30-1:00 p.m.**  
  Travel time to observational visits

- **1:00-4:15 p.m.**  
  **Off-Site Observational Visits**  
  Surgical Pathology Laboratory tour and discussion  
  Diagnostic Radiology Laboratory tour and discussion  
  *Workshop attendees visit both laboratories during the time allotted.*

  Schedule:
  1:00-2:30 Session 1  
  2:30-2:45 Switch between labs and brief break  
  2:45-4:15 Session 2

- **4:15-5:00 p.m.**  
  Travel time back to hotel

5:00-6:00 p.m. **Group Buffet Dinner**  
*Westminster*

[5:30-7:00 p.m.] **Study Design Track Meeting (Groups A and B)**  
**Those who are in the Study Design Track Meeting will not participate in the One-on-One Meetings.**

6:00-7:00 p.m. **One-on-One Meetings (“Office Hours”)**  
*Belvidere Ballroom*  
*Sign-up sheets to schedule a time to speak with available faculty members will be located at the Registration Desk.*  
*If you have signed up for Office Hours, please be prepared and arrive at least 5 minutes before your scheduled time.*

7:00-8:00 p.m. **Keynote Presentation: Unleashing the Power of Immune System—Focus on Translational Immunology**  
*Belvidere Ballroom*  

**Carl H. June, MD**, University of Pennsylvania, Philadelphia, PA
TUESDAY, NOVEMBER 19, 2019

Chair of the Day: Pasi A. Jänne, MD, PhD, Dana-Farber Cancer Institute, Boston, MA

7:00-8:00 a.m.  Continental Breakfast  
Westminster

8:00-10:45 a.m.  Introduction to Cancer Medicine and Diagnostics  
Belvidere Ballroom

  8:00-8:45 a.m.  
Overview: An introduction to clinical cancer medicine  
Geoffrey R. Oxnard, MD, Dana-Farber Cancer Institute, Boston, MA

  8:45-9:15 a.m.  
Overview of pathology and molecular tools in diagnostics  
Lynette M. Sholl, MD, Brigham and Women’s Hospital, Boston, MA

  9:15-9:45 a.m.  
Cancer imaging: The role of imaging in oncology  
Lawrence H. Schwartz, MD, Columbia University Medical Center, New York, NY

  9:45-10:15 a.m.  
EGFR mutant lung cancer: From clinic to bench to back to clinic  
Pasi A. Jänne, MD, PhD, Dana-Farber Cancer Institute, Boston, MA

10:15-11:00 a.m.  
Panel discussion and questions: Personalized cancer medicine and what it means in the clinic

11:00-11:15 a.m.  Break

11:15 a.m. – 2:00 p.m.  Lunch and Human Subject Research Protections session  
Belvidere Ballroom

Participants will gain insights into the role of the Institutional Review Board (IRB) in the ethical and regulatory oversight of human research and will explore issues of the protection of human subjects that are at the heart of translational research. Small groups of participants will serve as mock IRBs and will apply the ethical principles of the Belmont Report and the federal regulatory criteria to specific research projects and informed consent documents.

11:15 a.m.  
Pick up buffet lunch and bring to session room

11:30 a.m.-12:00 p.m.  
Overview of IRB
2:00-2:30 p.m.  
**Special Presentation**  
*Development of biomarker-based combinatorial strategies to address PARP inhibitor resistance*  
**Geoffrey I. Shapiro, MD, PhD**, Dana-Farber Cancer Institute, Boston, MA

2:30 - 3:00 p.m.  
**Orientation/Questions for Cancer Patient Clinic Visits**  
*Belvidere Ballroom*  
**Pasi A. Jänne, MD, PhD**, Dana-Farber Cancer Institute, Boston, MA

2:30-4:00 p.m.  
**Free Time**

[3:00-4:30 p.m.]  
**Study Design Track Meeting**  
**Those who are in the Study Design Track Meeting will not participate in the One-on-One Meetings.**

4:00-5:30 p.m.  
**One-on-One Meetings (“Office Hours”)**  
*Belvidere Ballroom*

* Sign-up sheets to schedule a time to speak with available faculty members will be located at the Registration Desk.  
*If you have signed up for Office Hours, please be prepared and arrive at least 5 minutes before your scheduled time.*

5:30-6:30 p.m.  
**Group Buffet Dinner**  
*Westminster*

6:30-8:00 p.m.  
**Small Group Discussion Sessions with Clinician and Patient**  
*Please check at the registration desk for the room you have been assigned to. All rooms are on the 2nd Floor.*

Each small group consists of a clinician, a patient, and approximately 10-15 workshop attendees. This provides a comfortable environment and encourages interaction. We ask doctors to share their perspectives as clinicians and researchers, and patients to speak about whatever they feel most comfortable sharing regarding their experiences as patients/clinical trial participants.
**WEDNESDAY, NOVEMBER 20, 2019**

*Chair of the Day: Susan Band Horwitz, PhD, Albert Einstein Medical College, Bronx, NY*

7:30-8:30 a.m. **Continental Breakfast**  
*Westminster*

8:35 a.m. **Meet by hotel side entrance to board the bus**

8:45 a.m.-12:00 p.m. **Off-Site Patient Clinic Visits**  
*Dana-Farber Cancer Institute*  
*Massachusetts General Hospital*

  - 8:45-9:30 a.m.  
    Travel to patient clinics and on-site preparation
  - 9:30-11:30 a.m.  
    *Interactive observational visits to cancer patient clinics*
  - 11:30 a.m.-12:00 p.m.  
    Travel time

12:00-1:00 p.m. **Buffet Lunch**  
*Westminster*

1:00-3:45 p.m. **The Research & Development Process**  
*Belvidere Ballroom*

  - 1:00-1:45 p.m.  
    *Taxol, tubulin, and tumors: A story of drug development*  
    **Susan Band Horwitz, PhD**, Albert Einstein Medical College, Bronx, NY
  - 1:45-2:15 p.m.  
    *Targeting tumor associated macrophages for anti-cancer therapy*  
    **Jennifer Guerriero, PhD**, Dana-Farber Cancer Institute, Boston, MA
  - 2:15-2:45 p.m.  
    *Translational cancer research in drug development*  
    **Ellen Filvaroff, PhD**, Celgene Corporation, San Francisco, CA
  - 2:45-3:15 p.m.  
    *Chance favors the prepared mind in oncology drug development*  
    **Eric H. Rubin, MD**, Merck & Co., Inc., North Wales, PA
  - 3:15-3:45 p.m.  
    *Panel discussion and questions: Research and development*

3:45-4:15 p.m. **Break**  
*Pre-Assembly Area*
Interactive Lab and Demo-cBioPortal: Cancer Genomics and Translational Research  
Belvidere Ballroom  

*Introduction to cBioPortal for cancer genomics*  
Tali Mazor, PhD, Dana-Farber Cancer Institute, Boston, MA  

*Advanced cBioPortal for cancer genomics*  
Ino de Bruijn, MS, Memorial Sloan Kettering Cancer Center, New York, NY  

6:15 p.m.  
Evening Off  

**THURSDAY, NOVEMBER 21, 2019**  

*Chair of the Day: Maureen T. Cronin, PhD, HTG Molecular Diagnostics, Inc. Tucson, AZ*  

7:30-8:30 a.m.  
**Continental Breakfast**  
*Westminster*  

8:35 a.m.  
Meet by hotel side entrance to board the bus  

8:45 a.m.-12:00 p.m.  
**Off-Site Patient Clinic Visits**  
*Dana-Farber Cancer Institute*  
*Massachusetts General Hospital*  

8:45-9:30 a.m.  
Travel to patient clinics and on-site preparation  

9:30-11:30 a.m.  
*Interactive observational visits to cancer patient clinics*  

11:30 a.m.-12:00 p.m.  
Travel time  

12:00-1:30 p.m.  
**Buffet Lunch**  
*Westminster*  

1:30-3:30 p.m.  
**Targeted Medicine**  
*Belvidere Ballroom*  

1:30-2:00 p.m.  
*Genomic analysis of cell-free plasma DNA*  
Ryan B. Corcoran MD, PhD, Massachusetts General Hospital, Boston, MA  

2:00-2:30 p.m.  
*Regulatory science: What are the issues?*
**Friday, November 22, 2019**

*Chair of the Day: Jennifer R. Grandis, MD, University of California San Francisco, San Francisco, CA*

- **7:00-8:00 a.m.** Continental Breakfast  
  Westminster

- **8:00-10:45 a.m.** Translating Differently  
  Belvidere Ballroom

  8:00-8:40 a.m. (30 min presentation + 10 min Q&A)  
  Precision Breast Cancer Care: Translation for “All of Us”

**Chana Weinstock, MD, Food and Drug Administration, Silver Spring, MD**

2:30-3:00 p.m.  
Biomarkers and molecular diagnostics: Matching patients to therapeutic options  
Maureen T. Cronin, PhD, HTG Molecular Diagnostics, Inc. Tucson, AZ

3:00-3:30 p.m.  
Panel discussion on Targeted Medicine

3:30-4:00 p.m. Break  
Pre-Assembly Area

4:00-5:30 p.m. Entrepreneurship in Translational Research and Careers in Industry (Panel Discussion)  
Belvidere Ballroom

  Moderator: George D. Demetri, MD, Dana-Farber Cancer Institute, Boston, MA

  Tarangini Deshpande, PhD, NuMedii, San Mateo, CA  
  Uciane Scarlett, Oxford Sciences Innovation, Oxford, United Kingdom  
  Maureen T. Cronin, PhD, HTG Molecular Diagnostics, Inc. Tucson, AZ

5:30-6:30 p.m. Dinner  
Westminster

6:30-7:30 p.m. How Treatment Decisions Are Made  
Belvidere Ballroom

  George D. Demetri, MD, Dana-Farber Cancer Institute, Boston, MA  
  Adrián Mariño Enríquez, MD, PhD, Brigham and Women’s Hospital, Boston, MA
Olufunmilayo I. Olopade, MD, University of Chicago Medical Center, Chicago, IL

8:40-9:20 a.m. (30 min presentation + 10 min Q&A)
Precision head and neck cancer medicine
Jennifer R. Grandis, MD, University of California San Francisco, San Francisco, CA

9:20-10:00 a.m. (30 min presentation + 10 min Q&A)
Targeting DUBs for cancer therapy
Sara J. Buhrlage, PhD, Dana-Farber Cancer Institute, Boston, MA

10:00-10:40 a.m. (30 min presentation + 10 min Q&A)
AACR’s Project GENIE: Genomics to phenomics
Deborah Schrag, MPH/MD, Dana-Farber Cancer Institute, Boston, MA

10:45-11:45 a.m. Closing Keynote
Belvidere Ballroom
ER Stress Reprograms the Tumor Microenvironment
Laurie H. Glimcher, MD, Dana-Farber Cancer Institute, Boston, MA

11:45-12:00 p.m. Closing Remarks
Belvidere Ballroom
George D. Demetri, MD, Dana-Farber Cancer Institute, Boston, MA
Susan Band Horwitz, PhD, Albert Einstein College of Medicine, Bronx, NY

12:00 p.m.-12:30 p.m. Post-Test
Belvidere Ballroom

12:30 p.m. Attendee Departure