



**Cancer: Pathophysiology, Current Therapies,  
Clinical Trials and Drug Development**  
Virtual Training Program  
March 23 – 25, 2022

**Wednesday, March 23, 2022 – Program Day 1**

All Times Listed EST

**Session  
No.**

10:00 – 10:15 AM

**PERI Welcome and Course Overview**

Jo Ann Zoul, Course Manager  
The Pharmaceutical Education and Research Institute, Inc.

10:15 AM – 11:15 AM

**Considerations for Clinical Trial Design and Endpoints Toward  
U.S. Drug Approval**

Shruti Gandhi, MD, PhD  
Medical Officer, Division of Oncology III  
Office of Oncologic Diseases  
Center for Drug Evaluation & Research  
U.S. Food and Drug Administration

*Planned Topics*

- Safety and Efficacy requirements for approval
- Clinical Trial Endpoints, trial designs, types of approval
- Expedited Review Procedures

**1**

11:15 – 11:30 AM

***Morning Break***

11:30 AM – 12:30 PM

**Improved Strategies for Selecting Recommended Phase 2 Dosing:  
Moving Beyond Maximum Tolerated Dose**

Lanre Okusanya, PharmD, MS  
Clinical Pharmacology Team Leader  
Division of Cancer Pharmacology I  
Office of Clinical Pharmacology  
U.S. Food and Drug Administration

*Planned Topics*

- Learnings from “toxic” examples
- Clinical Pharmacology driven decision making
  - Dose-response and exposure-response
- Non-oncology learnings
- Dose Selection
  - Importance and process
  - Alternatives to toxicity driving RP2D
  - Pharmacodynamic endpoints in early drug development

**2**

12:30 – 1:15 PM

***Lunch Break***

**Wednesday, March 23, 2022 (continued)**

All Times Listed EST

**Session  
No.  
3**

1:15 PM – 2:30 PM

**Design and Analysis of Oncology Studies**

Malini Iyengar, PhD

Head of Clinical Pharmacology, Respiratory and Oncology Statistics  
TEVA Pharmaceuticals

*Planned Topics*

- Study Design
- Trials with Objective Response Rates
- Trials with PFS, OS

2:30– 2:45 PM

**Afternoon Break**

2:45 – 3:45 PM

**Breast Cancer Clinical Update**

Melanie Royce, MD, PhD

Physician/Medical Officer, Division of Oncology I

Office of Oncologic Diseases

Center for Drug Evaluation & Research

U.S. Food and Drug Administration

**4**

*Planned Topics*

- Background
- Diagnosis & Staging
- Treatment
  - Neo/Adjuvant
  - Advanced/Metastatic

3:45 – 4:00 PM

**End of Day One**

**Thursday, March 24, 2022 – Program Day 2**

All Times Listed EST

**Session  
No.**

10:00 – 10:15 AM

**Day Two Overview, Welcome**

Jo Ann Zoul, Course Manager

The Pharmaceutical Education and Research Institute, Inc.

10:15 – 11:15 AM

**Lung Cancer Clinical Update**

Chul Kim, MD, MPH

Assistant Professor, Thoracic Oncology

MedStar Georgetown University Hospital

**5**

*Planned Topics*

- Overview of molecular pathogenesis of lung cancer
- Staging and treatment of lung cancer

**Thursday, March 24, 2022 (continued)**

All Times Listed EDT

**Session  
No.**11:15 – 11:30 AM      ***Stretch Break***

11:30 AM – 12:30 PM

**Gene and Cell Therapy Introduction**

Pashna N. Munshi, MD  
Associate Clinical Director  
Stem Cell Transplant and Cellular Immunotherapy Program  
MedStar Georgetown University Hospital

**6***Planned Topics*

- Overview of Gene Therapy
- Gene Editing: Clinical Uses
- Approved CAR-T cell therapies

12:30 – 1:30 PM

***Lunch Break***

1:30 – 2:30 PM

**Drug Development in Gynecologic Malignancies**

Melanie Royce, MD, PhD  
Physician/Medical Officer, Division of Oncology I  
Office of Oncologic Diseases  
Center for Drug Evaluation & Research  
U.S. Food and Drug Administration

**7***Planned Topics*

- Ovarian, cervical, and endometrial cancers

2:30 – 2:45 PM

***Afternoon Break***

2:45 – 3:45 PM

**Nonclinical Development of Oncologic Agents**

Simon Williams, PhD  
Pharmacologist, Division of Hematology Oncology Toxicology  
Office of Oncologic Diseases  
Center for Drug Evaluation & Research  
U.S. Food and Drug Administration

**8***Planned Topics*

- Defining Targets
- Safety & Toxicology

3:45 – 4:00 PM

**End of Day Two**

**Friday, March 25, 2022 – Program Day 3****Session  
No.**

All Times Listed EST

10:00 – 10:15 AM

**Day Three Overview, Welcome**

Jo Ann Zoul, Course Manager  
The Pharmaceutical Education and Research Institute, Inc.

10:15 – 11:15 AM

**Pediatric Regulations and FDA Initiatives Supporting Development for Pediatrics****9**

Elizabeth S. Duke, MD  
Medical Reviewer  
Division of Oncology 2  
Office of Oncologic Diseases  
Center for Drug Evaluation & Research  
U.S. Food and Drug Administration

*Planned Topics*

- Challenges and Opportunities in Pediatric Oncology Trials
- Legislation Impacting Drug Development in Pediatric Oncology
- Pediatric Oncology at FDA

11:15 – 11:30 AM

***Morning Break***

11:30 AM – 12:45 PM

**Regulatory Actions and Outcomes for NDAs and BLAs****10**

Florence Houn, MD, MPH, FACP  
Consultant, Drug Development & Regulatory Capacity Building

*Planned Topics*

- Refuse to file, filing over protest, withdrawal
- PDUFA VI Interactions
- Complete Response, Approval, Appeals
- PMR/PMC, REMS

12:45 – 1:45 PM

***Lunch Break***

1:45 – 2:45 PM

**Emerging Concepts in Cancer Immunotherapy****11**

Julius Strauss, MD  
Assistant Research Physician, Laboratory of Tumor Immunology and Biology  
Co-Director, Clinical Trials Group  
Center for Cancer Research  
National Cancer Institute

*Planned Topics*

- Immune Checkpoint Inhibition
- Update on therapeutic cancer vaccines
- Biomarker development
- Developing immune combinations and the next generation of immunotherapy

**Friday, March 25, 2022 (continued)**

All Times Listed EDT

**Session  
No.**

2:45 – 3:00 PM

***Afternoon Break***

3:00 – 4:00 PM

**Prostate Cancer Clinical Update**

Marijo Bilusic, MD, PhD

Medical Oncology/GU Site Disease Group Lead

Sylvester Comprehensive Cancer Center/University of Miami Health System

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*Planned Topics*

- Current treatment landscape for metastatic prostate cancer
- Immunotherapy for prostate cancer
- Novel treatment options

4:00 PM

**End of Course**

