

# <u>Tufts CSDD 2022 Postgraduate Course in Clinical Pharmacology, Drug Development,</u> and Regulation

#### **WEEK ONE**

# Day 1: Wednesday, April 6, 2022

Moderator: Kenneth I Kaitin, PhD

12:00-12:30pm EST Welcome, Introduction, Course Objectives | **Kenneth Kaitin, PhD**12:30-1:30pm Introduction to the Drug Development Process | **Richard I. Shader, MD** 

1:30-1:45pm *Break* 

1:45-3:00pm Clinical Pharmacology and Translational Medicine – Discovery to Development | Chandrasekhar

Natarajan, BPharm, MSc

3:00-4:00pm The Changing Landscape for Drug Development: Trends and Challenges in Pharmaceutical R&D |

Kenneth Kaitin, PhD

#### Day 2: Thursday, April 7, 2022

Moderator: Kenneth I Kaitin, PhD

12:00-1:00pm EST Drug Development Regulation-Part 1: USA | Alberto Grignolo, PhD

1:00-1:45pm Drug Development Regulation-Part 2: Rest of World | Alberto Grignolo, PhD

1:45-2:00pm *Break* 

2:00-3:00pm Understanding the Medical Affairs Function | Pol Vandenbroucke, MD, MSc, MBA, FFPM

3:00-4:00pm Biosimilars: Your Questions Answered | Ron Lanton III, Esq.

#### **WEEK TWO**

# Day 3: Wednesday, April 13, 2022

Moderator: Kenneth I Kaitin, PhD

12:00-1:00pm EST Basics of Clinical Trial Design and Execution | Orest Hurko, MD

1:00-1:45pm Human Research Protection: An Ethical and Regulatory Overview | Susan Kornetsky, MPH

1:45-2:00pm *Break* 

2:00-3:00pm Adaptive Trials: Broad Implementation & Efficient Clinical Development | Jerald Schindler, DrPH

2:45-4:00pm Understanding the FDA: An Open Conversation and Q&A | Ellis F. Unger, MD

#### Day 4: Thursday, April 14, 2022

Moderator: Kenneth I Kaitin, PhD

12:00-12:45pm EST Optimizing Protocol Design to Improve Study Conduct Performance | **Kenneth A. Getz, MBA**12:45-1:45pm Real World Data (RWD) Across the Life Cycle, from Trial Design to Post Approval Safety and

Efficacy Detection: A Case Study | Jeffrey Brown, PhD, and Mats Sundgren, PhD

1:45-2:00pm *Break* 

2:00-3:00pm Artificial Intelligence and its Use in Drug Development Process: A Case Study | **Prasanna Rao**3:00-4:00pm The Role of Epidemiology in Drug Development: A Global Perspective | **Paul Beninger, MD, MBA** 



## **WEEK THREE**

## Day 5: Wednesday, April 20, 2022

Moderator: Kenneth I Kaitin, PhD

12:00-1:00pm EST Pharmacovigilance, Post-Market Surveillance, and Risk Management | Paul Beninger, MD, MBA

1:00-1:45pm CMC, Quality, and Clinical Materials Supply | Rob Franco, PhD

1:45-2:00pm *Break* 

2:00-3:00pm Creating a Commercial Strategy: Balancing Public Health and Free Speech | **Peter J. Pitts**3:00-4:00pm Vaccine Development: Lessons Learned from the COVID Vaccine Experience | **Anita Patel**,

**PharmD** 

### Day 6: Thursday, April 21, 2022

Moderator: Kenneth I Kaitin, PhD

12:00-1:00pm EST Measuring the Value of Prescription Drugs | Peter J. Neumann, ScD

1:00-2:00pm Alliance Management | Christine Carberry, PhD

2:00-2:15pm Break

2:15-3:15pm Bio/Pharm Investing 101 | Les Funtleyder, MPH

3:15-4:00pm Course Wrap-Up | Kenneth Kaitin, PhD

# **Course Faculty**

- Kenneth I Kaitin, PhD (Course Moderator): Professor and Senior Fellow, Tufts Center for the Study of Drug Development, Tufts University School of Medicine; Advisory Professor, Shanghai Medical College, Fudan University; Consultant
- Paul Beninger, MD, MBA: Associate Professor and Director MD/MBA Program, Tufts University School of Medicine; Former Vice President of Pharmacovigilance, Genzyme, Inc.; Former Division Director, Medical Devices, US Food and Drug Administration
- Jeffrey Brown, PhD: Chief Scientific Officer, TriNetX
- Christine Carberry, PhD: Consultant, Carberry Consulting
- **Rob Franco, PhD:** President, Coe Point Management Consultants; Senior Fellow, Tufts Center for the Study of Drug Development; Former Partner, PwC Consulting-Pharmaceutical R&D
- Les Funtleyder, MPH: Portfolio Manager-Healthcare, E Squared Capital Management, LLC
- **Kenneth A. Getz, MBA:** Executive Director and Professor, Tufts Center for the Study of Drug Development, Tufts University School of Medicine; Founder and Board Chair, CISCRP
- Alberto Grignolo, PhD: Corporate Vice President, Corporation Strategy & Thought Leadership, Parexel
- Orest Hurko, MD: Senior Clinical Consultant, Sun Pharma, ApicBio; Adjunct Associate Professor, Tufts University School of Medicine
- Susan Kornetsky, MPH: Senior Director, Clinical Research Compliance, Boston Children's Hospital
- Ron Lanton III, Esq: Principal, Lanton Law
- Chandrasekhar Natarajan, BPharm, MSc, MS: Chief Scientific Officer, ViNa Pharma Consulting; Adjunct Faculty, Tufts University School of Medicine
- Peter J. Neumann, ScD: Director, Center for the Evaluation of Value and Risk, Tufts Medical Center;
   Professor, Tufts University School of Medicine
- Anita Patel, PharmD: Deputy, Chief Operating Officer, US Department of Health and Human Services; Former CDC COVID-19 Response Leadership, US Center for Disease Control and Prevention
- Peter J. Pitts: President, Center for Medicine in the Public Interest; Former Associate Commissioner, US
   Food and Drug Administration
- **Prasanna Rao:** Head, Artificial Intelligence and Data Science, Pfizer, Inc.
- Richard I. Shader, MD: Professor Emeritus of Immunology and Psychiatry, Tufts University School of Medicine
- Jerald Schindler, DrPH: Vice President, Enterprise Statistics, Medtronics, Inc.
- Mats Sundgren, PhD: Global Health Informatics Director, Data Science and AI, BioPharmaceuticals R&D, AstraZeneca
- Ellis F. Unger, MD: Former Director, Office of Drug Evaluation-I, and Director, Office of Cardiology, Hematology, Endocrinology, and Nephrology, US Food and Drug Administration
- Pol Vandenbrouke, MD, MSc, MBA, FFPM: Chief Medical Officer, Hospital Business Unit, Pfizer, Inc.