Course Description

The American College of Toxicology (ACT) and Teratology Society, in collaboration with the Thomas Jefferson University College of Biomedical Sciences, are offering a course, “Practical Reproductive and Developmental Toxicology.” In this five-day intensive course, attendees will be provided a basic understanding in reproductive and developmental biology; principles of various testing approaches for reproductive and developmental toxicology, with strong emphasis on the practical application of these principles and interpretation of nonclinical safety data; and risk assessment. The intended audience for this course includes industrial and regulatory scientists, graduate students, and postdoctoral fellows.

MONDAY, MAY 8

Female Reproductive Biology/Toxicology
Aileen Keating, Iowa State University

Male Reproductive Biology/Toxicology
Justin M. Conley, US Environmental Protection Agency

Embryology: From Fertilization to Neural Tube/Somite Formation
E. Sid Hunter, US Environmental Protection Agency

Cellular and Molecular Analysis of Development
Rocky S. Tuan, University of Pittsburgh

PK/ADME of Xenobiotics/Chemicals during Pregnancy/Lactation and in Fetus/Newborn
Hugh A. Barton, Pfizer Inc.

TUESDAY, MAY 9

Principles of Abnormal Development
Gerald Grunwald, Thomas Jefferson University

Normal and Abnormal Development of the Musculoskeletal System and Limbs
John M. Rogers, US Environmental Protection Agency

Normal and Abnormal Development of the Nervous System
Charles V. Vorhees, University of Cincinnati

Normal and Abnormal Development of Head and Neck
Kathleen Sulik, University of North Carolina

WEDNESDAY, MAY 10

Normal and Abnormal Development of the Respiratory and Digestive Systems
John M. DeSesso, Exponent

Normal and Abnormal Development of the Cardiovascular System
John M. DeSesso, Exponent

Normal and Abnormal Development of the Urogenital System
Michael Hsieh, George Washington University

Developmental Immunotoxicology
Michael Hsieh, George Washington University

Overview of Regulatory Reproductive Toxicology
Alan M. Hoberman, Charles River

THURSDAY, MAY 11

Male/Female Fertility Testing
Donald G. Stump, Charles River

Developmental Toxicity Testing
Christopher J. Bowman, Pfizer

Pre- and Postnatal Development/Multigeneration/Extended 1-Generation Testing
Susan L. Makris, US Environmental Protection Agency

Data Interpretation
Alan M. Hoberman, Charles River

Future of Reproductive and Developmental Toxicity Testing
Thomas B. Knudsen, US Environmental Protection Agency

FRIDAY, MAY 12*

Juvenile Animals Toxicity Testing
Susan B. Laffan, GlaxoSmithKline

Risk Assessment for Pharmaceuticals
Melissa S. Tassinari, Independent Consultant

Risk Assessment for Agricultural and Industrial Chemicals
Anna B. Lown, US Environmental Protection Agency

*Course ends at 11:15 am.