

Practical Reproductive and Developmental Toxicology

2021 Virtual Course



American College
of Toxicology



Society for
Birth Defects
Research & Prevention
EST. 1960 AS THE TERATOLOGY SOCIETY

Course Description

This joint American College of Toxicology/Society for Birth Defects Research and Prevention course is designed to provide a basic understanding in reproductive and developmental biology and 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 as well as risk assessment. The intended audience for this course includes industrial and regulatory scientists, graduate students, and postdoctoral fellows.

On-demand access to the course presentations will be available to registrants for viewing no later than April 15, 2021. On-demand viewing of each individual lecture will have a 60-day access period from the time each recording is first accessed.

Virtual Course Topics

Male Reproductive Biology/Toxicology

Justin Conley, US Environmental Protection Agency

Female Reproductive Biology/Toxicology

Aileen Keating, Iowa State University

Embryology: From Fertilization to Neural Tube/Somite Formation

E. Sid Hunter III, US Environmental Protection Agency

Cellular and Molecular Analysis of Development

Brian Johnson, Michigan State University

PK/ADME of Xenobiotics/Chemicals during Pregnancy/Lactation and in Fetus/Newborn

Hisham El-Masri, US Environmental Protection Agency

Development of the Immune System and Dysfunction

Jamie DeWitt, East Carolina University

Principles of Abnormal Development

Gerald Grunwald, Thomas Jefferson University

Normal and Abnormal Development of the Nervous System

Charles Vorhees, University of Cincinnati

Normal and Abnormal Development of the Musculoskeletal System and Limbs

John Rogers, US Environmental Protection Agency

Normal and Abnormal Craniofacial Development

Robert Lipinski, University of Wisconsin

Normal and Abnormal Development of the Cardiovascular System

John DeSesso, Exponent

Normal and Abnormal Development of the Respiratory and Digestive Systems

John DeSesso, Exponent

Normal and Abnormal Development of the Urogenital System

John Rogers, US Environmental Protection Agency

Overview of Regulatory Reproductive and Developmental Toxicology

Alan Hoberman, Charles River

Male/Female Fertility Testing

Donald Stump, Charles River

Developmental Toxicity Testing

Christopher Bowman, Pfizer

Pre- and Postnatal Development/Multigeneration Testing

Susan Makris, US Environmental Protection Agency

Juvenile Toxicity Testing

Susan Laffan, GlaxoSmithKline

Data Interpretation

Alan Hoberman, Charles River

Risk Assessment for Pharmaceuticals

Tacey White, Aclairo Pharmaceutical Developmental Group, Inc

Risk Assessment for Agricultural and Industrial Chemicals

Elizabeth Mendez, US Environmental Protection Agency

Contemporary Reproductive and Developmental Toxicity Testing: New Approaches and Methodologies

Aldert Piersma, Netherlands National Institute for Public Health and the Environment

Future of Reproductive and Developmental Toxicity Testing: Computational and Organoids

Thomas Knudsen, US Environmental Protection Agency

Live Q&A with Speakers: May 17–20, 2021

Live Practicum: Case Studies, Hands-On Exercises,
and Discussion: May 21, 2021

REGISTER ONLINE

For more course information and to
Register, visit www.actox.org

American College of Toxicology (ACT)

11190 Sunrise Valley Drive, Suite 300
Reston, VA 20191
Email: acthq@actox.org
Tel: 703.547.0875 | Fax: 703.438.3113

Society for Birth Defects Research and Prevention (BDRP)

11190 Sunrise Valley Drive, Suite 300
Reston, VA 20191
Email: bdrp@birthdefectsresearch.org
Tel: 703.438.3104 | Fax: 703.438.3113

www.actox.org

www.birthdefectsresearch.org