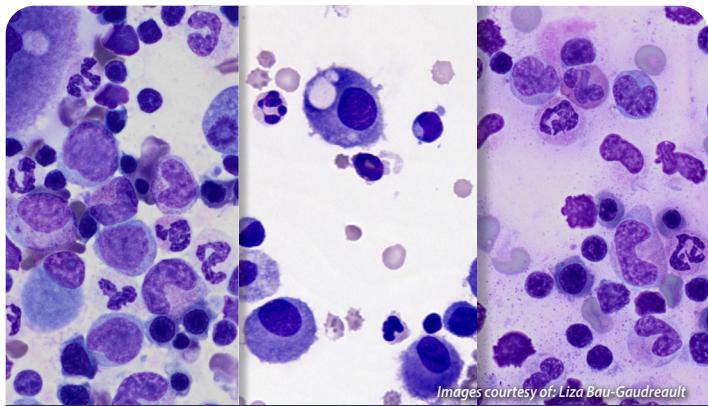




Society of Toxicologic Pathology



October 13–29, 2025
(Mondays and Wednesdays, 10:00 AM–1:45 PM EDT)

STP Virtual Modular Education Course: Fundamentals and Applications of Clinical Pathology in Nonclinical Toxicology Studies

Course Objective

The objective of the STP Modular Education Course "Fundamentals and Applications of Clinical Pathology in Nonclinical Toxicology Studies" is to educate individuals in the principles of clinical pathology in the context of toxicologic research. Attendees will gain a deeper understanding of basic and advanced clinical pathology methods, including hematology and clinical chemistry, coagulation, urinalysis, serum and fluid biomarkers, and cytology. Special emphasis will be placed on strategic design of clinical pathology endpoints and the integration of clinical pathology with adversity determinations and holistic animal data.

Course Description

The course will be a mixture of didactic lectures and case studies.

Topics covered include:

- Best practices for clinical pathology endpoint design in nonclinical studies
- Standard, advanced, and emerging hematology and clinical chemistry assays and biomarkers
- Important considerations in clinical pathology reporting and adversity determination
- Case studies demonstrating holistic animal data integration
- Plus, many more!

Who Should Attend

The STP Modular Education courses are designed with the novice toxicologic pathologist in mind; however, pathology residents/graduate students with an interest in toxicologic pathology or experienced pathologists who desire a more in-depth review of clinical pathology will also benefit from the course.

Additionally, this course will be of interest to toxicologists, PK/PD scientists, regulatory personnel, and anyone involved in nonclinical safety studies.

Questions and Special Accommodations

For any questions, please contact STP Headquarters at stp@toxpath.org.

REGISTRATION OPEN

For more course information and registration, visit www.toxpath.org

Faculty

- **Course Chair:**
Dharani K. Ajithdoss, BVSc, MVSc, PhD, DACVP, DACVM (Regeneron)
- **Course Co-Chair:**
Katherine A.B. Knotzman, BS, DVM, PhD, DACVP (Battelle Memorial Institute)
- **Course Scientific Advisor:**
Kirstin Barnhart, DVM, PhD, DACVP (MBrace Therapeutics)

- Adeyemi Adedeji, DVM, PhD, DACVP, Genentech
- Lennart Anger, ERT, Genentech
- Tara Arndt, DVM, DACVP, Altasciences
- Adam Aulbach, DVM, DABT, DACVP, Inotiv
- Laura Boone, DVM, PhD, DACVP, DABT, Labcorp Drug Development
- Marjory Brooks, DVM, DACVIM, Cornell University-College of Veterinary Medicine
- Michelle Cora, DVM, DACVP
- Laura Cregar, DVM, DACVP, Amgen
- Martin Guillot, DVM, MSc, PhD, Charles River Laboratories
- Natalie Hoepp, DVM, MS, DACVP, Merck & Co.
- Agata Miller, DVM, DACVP, AbbVie
- Samuel Neal, BS, The Ohio State University
- Florence Poitout, DVM, DACVP, DECVCP, Charles River Laboratories
- Klaudia Polak, VMD, MS, DACVP, Labcorp
- Anne Provencher, DVM, MSc, DACVP, DECP, FIATP, Charles River Laboratories
- Lila Ramaiah, DVM, PhD, DACVP, Johnson & Johnson Innovative Medicine
- Eric Schultz, DVM, PhD, DACVP, FIATP, Eli Lilly and Company
- Cory Sims, DVM, DACVP, Altasciences
- Craig Thompson, DVM, DACVP, Purdue University College of Veterinary Medicine
- Niraj Tripathi, BVSc, MVSc, PhD, DACVP, Labcorp Drug Development

Course Registration

STP Member	\$795.00
Nonmember	\$995.00
Student*	\$95.00
STP Member Group Rate [§]	\$695.00
Nonmember Group Rate [§]	\$895.00

*A letter of verification from a department chair must accompany student registration.

[§]Three or more from the same company.

Cancellation Policy

A written request for cancellation must be received by STP Headquarters no later than September 15, 2025. The registration fee will be refunded less a \$50 processing fee. No refunds will be issued after September 15, 2025. STP reserves the right to cancel the course, in which case all registrants will receive a full refund.

Virtual Attendance

Presentations will be offered virtually from 10:00 AM–1:45 PM EDT on Mondays and Wednesdays.

Access to the downloadable course materials and Zoom login information for the live sessions will be provided in advance.

Course presentations will be recorded and made available to registrants for 30 days.

Week 1

Monday, October 13

10:00 AM–10:10 AM	Welcome and Introduction
10:10 AM–11:00 AM	Study Design in Clinical Pathology: Sampling Strategies, Parameters, and the Importance of Controls Tara Arndt, DVM, DACVP, Altasciences
11:00 AM–11:50 AM	Pre-Analytical Considerations for Nonclinical Studies Laura Cregar, DVM, DACVP, Amgen
11:50 AM–12:10 PM	Laboratory Quality Management Cory Sims, DVM, DACVP, Altasciences
12:10 PM–12:25 PM	Break
12:25 PM–1:15 PM	Best Practices in Reporting Clinical Pathology Findings Adam Aulbach, DVM, DABT, DACVP, Inotiv
1:15 PM–1:45 PM	Statistics—When to Use and When to Ignore Kirstin Barnhart, DVM, PhD, DACVP, MBrace Therapeutics

Wednesday, October 15

10:00 AM–11:00 AM	CBC and Blood Smear Interpretation Michelle Cora, DVM, DACVP
11:00 AM–11:45 AM	Platelet Testing: Beyond Simple Quantification Florence Poitout, DVM, DACVP, DECVCP, Charles River Laboratories
11:45 AM–12:00 Noon	Break
12:00 Noon–12:50 PM	Bone Marrow Analysis: When and Why? Anne Provencher, DVM, MSc, DACVP, DECVCP, FIATP, Charles River Laboratories
12:50 PM–1:20 PM	Decreases in RBC Mass and Adversity Considerations Agata Miller, DVM, DACVP, AbbVie
1:20 PM–2:00 PM	Why Does Blood Clot—or Not? Marjory Brooks, DVM, DACVIM, Cornell University-College of Veterinary Medicine

Week 2

Monday, October 20

10:00 AM–10:20 AM	Overview of Clinical Chemistry in a Tolerability, DRF, or GLP Study Niraj Tripathi, BVSc, MVSc, PhD, DACVP, Labcorp Drug Development
10:20 AM–11:20 AM	Interpretation of Liver Enzymes and Liver Function Tests Laura Boone, DVM, PhD, DACVP, DABT, Labcorp Drug Development
11:20 AM–12:00 Noon	Translatability, Species Differences, and Spurious Values in Liver Tests Laura Boone, DVM, PhD, DACVP, DABT, Labcorp Drug Development
12:00 Noon–12:15 PM	Break
12:15 PM–12:45 PM	Cardiac Biomarkers: Challenges and Paths Forward Eric Schultze, DVM, PhD, DACVP, FIATP, Eli Lilly and Company
12:45 PM–2:00 PM	Fundamentals of Urinalysis and Novel Urinary Biomarkers for Toxicology Studies Adeyemi Adedeji, DVM, PhD, DACVP, Genentech

Wednesday, October 22

10:00 AM–10:45 AM	The Acute Phase Response in Laboratory Animal Species Natalie Hoepp, DVM, MS, DACVP, Merck & Co.
10:45 AM–11:30 AM	Iron 101 for Toxicologic Pathologists: From Hemoglobin to Hepcidin Klaudia Polak, VMD, MS, DACVP, Labcorp
11:30 AM–12:00 Noon	The Use of Musculoskeletal Biomarkers in Preclinical Safety Assessment Martin Guillot, DVM, MSc, PhD, Charles River Laboratories
12:00 Noon–12:15 PM	Break
12:15 PM–1:00 PM	Metabolic Evaluation- Lipids, Glucose and Pancreatic Function Kirstin Barnhart, DVM, PhD, DACVP, MBrace Therapeutics
1:00 PM–2:00 PM	Electrolytes and Minerals Craig Thompson, DVM, DACVP, Purdue University College of Veterinary Medicine

Week 3

Monday, October 27

10:00 AM–11:15 AM	Complement and Cytokines Cory Sims, DVM, DACVP, Altasciences
11:15 AM–12:15 PM	CSF Fluid Analysis and Biomarkers Evaluation in Toxicology Studies Liza Bau-Gaudreault, DVM, MSc, DES, DACVP, Charles River Laboratories
12:15 PM–12:30 PM	Break
12:30 PM–1:00 PM	Bronchoalveolar Fluid Analysis in Nonclinical Studies : When, Why and How? Liza Bau-Gaudreault, DVM, MSc, DES, DACVP, Charles River Laboratories
1:00 PM–1:30 PM	Techniques and Applications for Other Body Fluids: Synovial, Ocular, Pleural, and Peritoneal Liza Bau-Gaudreault, DVM, MSc, DES, DACVP, Charles River Laboratories

Wednesday, October 29

10:00 AM–10:45 AM	Digital Clinical Pathology and Artificial Intelligence in Clinical Pathology—An Overview Liza Bau-Gaudreault, DVM, MSc, DES, DACVP, Charles River Laboratories; and Samuel Neal, BS, The Ohio State University
10:45 AM–11:30 AM	Virtual Control Groups in Preclinical Safety Studies: Decreasing Animal Use While Maintaining In Vivo Study Interpretability Adeyemi Adedeji, DVM, PhD, DACVP, Genentech; and Lennart Anger, ERT, Genentech
11:30 AM–12:00 Noon	Clinical Pathology and Holistic Animal Data Integration Lila Ramaiah, DVM, PhD, DACVP, Johnson & Johnson Innovative Medicine
12:00 Noon–12:15 PM	Break
12:15 PM–12:45 PM	Assessing Adversity in Clinical Pathology Lila Ramaiah, DVM, PhD, DACVP, Johnson & Johnson Innovative Medicine
12:45 PM–1:45 PM	Putting the Numbers to Work: Clinical Pathology Case Challenges Laura Cregar, DVM, DACVP, Amgen