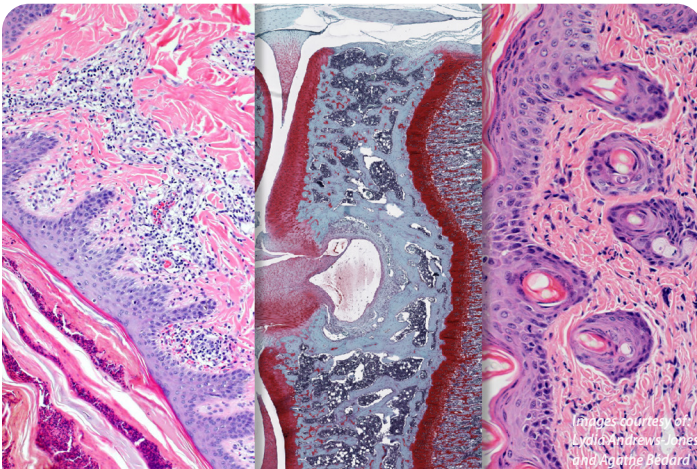




Society of Toxicologic Pathology



STP Virtual Modular Education Course: Toxicologic Pathology of Integumentary and Musculoskeletal Systems

October 11–27, 2021

10:00 AM–1:45 PM EDT on Mondays and Wednesdays

Course Objective

The objective of this STP Modular Education Course “Toxicologic Pathology of Integumentary and Musculoskeletal Systems” is to educate individuals in the principles of toxicology and pathology of the integumentary and musculoskeletal systems. Attendees will gain a thorough introduction to both of the systems, as well as discussion on skin immunology and minipig models, sampling bones for toxicity studies and osteoarthritis, and muscle toxicity and biomarkers.

Course Description

The course will be a mixture of didactic lectures and seminars, case studies, lightning talks, and review of scanned slides. Topics covered:

- Introduction and overviews of the integumentary and musculoskeletal systems
- Using *in vitro*, *in vivo*, and *ex vivo* models of skin
- Sampling, processing, and staining of different bone types
- Imaging of samples from both systems
- 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 the integumentary and musculoskeletal systems will also benefit from the course.

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:** Alok Sharma, BVSc, MVSc, MS, PhD, DACVP, DABT (*Labcorp*)
- **Course Co-Chair:** Dmitry Danilenko, DVM, PhD, DACVP (*Danilenko Nonclinical Drug Development, LLC*)
- **Course Co-Chair:** Kathryn Gropp, DVM, PhD, DACVP (*Pfizer Inc.*)
- **Course Scientific Advisor:** Lydia Andrews-Jones, DVM, PhD, DACVP (*AbbVie*)
- **Course Scientific Advisor:** Kelly Diegel, DVM, PhD, DACVP (*GlaxoSmithKline*)
- **Course Scientific Advisor:** John Vahle, DMV, PhD, DACVP (*Eli Lilly and Company*)
- **Course Scientific Advisor:** Aurore Varela, DVM, MSc, DABT (*Charles River Laboratories*)
- Aneesh Alex, MSc, PhD (*GlaxoSmithKline*)
- Alexandra Armstrong, DVM, DACVP (*University of Minnesota*)
- Agathe Bédard, DVM, DACVP (*Charles River Laboratories*)
- Rogely Boyce, DVM, PhD, DACVP (*Amgen*)
- Maurice Cary, DVM, PhD, DACVP (*Pathology Experts GmbH*)
- Luc Chouinard, DVM, DACVP (*Charles River Laboratories*)
- Warren Glaab, PhD (*Merck*)
- Solomon Haile, DVM, MVSc, PhD, DACVP (*Charles River Laboratories*)
- Sara Santagostino, DVM, PhD, DACVP (*Genentech*)
- Aaron Sargeant, DVM, PhD, DACVP (*Charles River Laboratories*)
- Ryan Schafbuch, DVM, MS, DACVP (*Charles River Laboratories*)

Course Registration

STP Member	\$795.00
Nonmember	\$995.00
Student*	\$95.00
STP Member Group Rate [†] (Three or More from the Same Company)	\$695.00
Nonmember Group Rate [†] (Three or More from the Same Company)	\$895.00

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

[†]To take advantage of the group rate please send your completed registration forms to stp@toxpath.org.

Cancellation Policy

A written request for cancellation must be received by STP Headquarters no later than September 15, 2021. The registration fee will be refunded less a \$50 processing fee. No refunds will be issued after September 15, 2021. STP reserves the right to cancel the course, in which case all registrants will receive a full refund.

Week 1

Monday, October 11

10:00 AM–10:10 AM	Welcome and Introduction <i>Alok Sharma, BVSc, MVSc, MS, PhD, DACVP, DABT, Labcorp</i>
10:10 AM–11:10 AM	Introduction/Overview of the Integumentary System: Structure and Function <i>Lydia Andrews-Jones, DVM, PhD, DACVP, AbbVie</i>
11:10 AM–11:40 AM	Cutaneous Immunology <i>Dimitry Danilenko, DVM, PhD, DACVP, Danilenko Nonclinical Drug Development, LLC</i>
11:40 AM–11:55 AM	Break
11:55 AM–12:40 PM	Human <i>In Vitro/Ex Vivo</i> Model Systems for the Evaluation of Skin and Adnexa <i>Sara Santagostino, DVM, PhD, DACVP, Genentech</i>
12:40 PM–1:05 PM	<i>In Vivo</i> Integumentary Optical Imaging Systems <i>Aneesh Alex, MSc, PhD, GlaxoSmithKline Center for Optical Molecular Imaging</i>
1:05 PM–1:45 PM	Case Report Presentations

Wednesday, October 13

10:00 AM–11:00 AM	<i>In Vivo</i> Discovery Models: Lost in Translation <i>Kelly Diegel, DVM, PhD, DACVP, GlaxoSmithKline</i>
11:00 AM–11:45 AM	Evaluation of Cutaneous Carcinogenicity Risk: A Case Study <i>Maurice Cary, DVM, PhD, DACVP, Pathology Experts GmbH</i>
11:45 AM–12:00 Noon	Break
12:00 Noon–1:00 PM	Minipig as a Topical Toxicity Model <i>Aaron Sargeant, DVM, PhD, DACVP, Charles River Laboratories</i>
1:00 AM–1:45 PM	Case Report Presentations

Week 2

Monday, October 18

10:00 AM–10:45 AM	Sample Handling, Processing, Sectioning, and Staining of Bone in Rodents and Nonrodents <i>Solomon Haile, DVM, MVSc, PhD, DACVP, Charles River Laboratories</i>
10:45 AM–11:30 AM	Introduction to Microscopic Bone Assessment <i>Kathryn Gropp, DVM, PhD, DACVP, Pfizer Inc.</i>
11:30 AM–11:45 AM	Case Report Presentations
11:45 AM–12:00 Noon	Break
12:00 Noon–12:50 PM	Updates to Bone Biomarkers and Imaging <i>Aurore Varela, DVM, MSc, DABT, Charles River Laboratories</i>
12:50 PM–1:30 PM	Class Effects on the Physis and Metaphysis <i>Kathryn Gropp, DVM, PhD, DACVP, Pfizer Inc.</i>
1:30 PM–1:45 PM	Case Report Presentations

Wednesday, October 20

10:00 AM–11:00 AM	Basic Anatomy and Sampling, Processing and Staining of Teeth in Rodents and Nonrodents <i>Ryan Schafbuch, DVM, MS, DACVP, Charles River Laboratories</i>
11:00 AM–11:45 AM	Bone Anabolic Agents: Regulatory Considerations <i>John Vahle, DVM, PhD, DACVP, Eli Lilly and Company; Luc Chouinard, DVM, DACVP, Charles River Laboratories; Rogely Boyce, DVM, PhD, DACVP, Amgen</i>
11:45 AM–12:00 Noon	Break
12:00 Noon–1:00 PM	Bone Anabolic Agents and Rodent Osteosarcomas: Lessons Learned from Forteo and Sclerostin <i>John Vahle, DVM, PhD, DACVP, Eli Lilly and Company; Luc Chouinard, DVM, DACVP, Charles River Laboratories; Rogely Boyce, DVM, PhD, DACVP, Amgen</i>
1:00 PM–1:45 PM	Case Report Presentations

Week 3

Monday, October 25

10:00 AM–10:50 AM	Joints: Sampling, Processing, and Staining of Joints of Rodents and Nonrodents in Routine and Specialized Toxicology Studies <i>Agathe Bédard, DVM, DACVP, Charles River Laboratories</i>
10:50 AM–11:30 AM	Nonclinical Models of Osteoarthritis <i>Kathryn Gropp, DVM, PhD, DACVP, Pfizer Inc.</i>
11:30 AM–12:00 Noon	Case Report Presentations
12:00 Noon–12:15 PM	Break
12:15 PM–1:15 PM	Osteoarthritis Assessment and Grading <i>Alexandra Armstrong, DVM, DACVP, University of Minnesota</i>
1:15 PM–1:45 PM	Case Report Presentations

Wednesday, October 27

10:00 AM–10:45 AM	Updated Muscle Toolbox to Include Emphasize Choice of Muscles <i>Kathryn Gropp, DVM, PhD, DACVP, Pfizer Inc.</i>
10:45 AM–11:45 AM	Updated Muscle Biomarkers <i>Warren Glaab, PhD, Merck</i>
11:45 AM–12:00 Noon	Break
12:00 Noon–12:40 PM	Assessing Muscle Toxicity in Routine Sections <i>Kathryn Gropp, DVM, PhD, DACVP, Pfizer Inc.</i>
12:40 PM–1:20 PM	Special Evaluations (EM, Frozen Sections, etc.) <i>Kathryn Gropp, DVM, PhD, DACVP, Pfizer Inc.</i>
1:20 PM–1:45 PM	Case Report Presentations