



# SOCIETY OF TOXICOLOGIC PATHOLOGY 45TH ANNUAL SYMPOSIUM

The Pulse of Progress: Advancing Knowledge  
on Cardiovascular Toxicity

San Diego, California, June 21-24, 2026

Paradise Point

PROGRAM

# Annual Symposium Overview

All events are in the Paradise Point hotel unless otherwise indicated.

## SATURDAY, JUNE 20, 2026

|                 |              |                |
|-----------------|--------------|----------------|
| 4:00 PM–6:00 PM | Registration | Paradise Foyer |
|-----------------|--------------|----------------|

## SUNDAY, JUNE 21, 2026

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| 8:00 AM–6:00 PM | Registration | Paradise Foyer |
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| 9:00 AM–12:00 Noon | <b>STP Satellite Symposium</b><br><i>Sponsored by AnaPath GmbH</i> | Paradise Ballroom |
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|-----------------|---|-------------------|
| 1:30 PM–5:00 PM |  <b>CEI: Beyond the Dipstick: Urinalysis as a Tool for In Depth Assessment of the Renal Structure and Function</b> | Paradise Ballroom |
|-----------------|---|-------------------|

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| 5:30 PM–7:00 PM | <b>Welcome Reception/Exhibits Opening</b> | Sunset Ballroom |
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| 7:00 PM–8:30 PM | <b>Student/Mentor Mixer</b> | Island Point Lawn |
|-----------------|-----------------------------|-------------------|

## MONDAY, JUNE 22, 2026

|                 |              |                |
|-----------------|--------------|----------------|
| 7:00 AM–5:30 PM | Registration | Paradise Foyer |
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| 8:00 AM–9:10 AM | <b>Symposium Welcome and Keynote: Stem Cells, Genomics, and AI: From Precision Medicine to Clinical Trials in Dish</b> | Paradise Ballroom |
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| 9:00 AM–4:00 PM | <b>Exhibits and Poster Sessions Open</b> | Sunset Ballroom |
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| 9:10 AM–12:00 Noon | <b>Session 1: Patient-Focused Cardiovascular Safety Assessment: Enhancing Translation</b> | Paradise Ballroom |
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| 9:45 AM–10:15 AM | <b>Break: Please visit Exhibits and Poster Sessions.</b> | Sunset Ballroom |
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| 1:30 PM–5:00 PM | <b>Session 2: Integrated Cardiovascular Safety Assessment–Collaboration with Safety Pharmacology</b> | Paradise Ballroom |
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| 3:00 PM–3:30 PM | <b>Break: Please visit Exhibits and Poster Sessions.</b> | Sunset Ballroom |
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| 5:30 PM–7:00 PM | <b>Annual Business Meeting and Town Hall: Use of AI in Toxicologic Pathology</b> | Paradise Ballroom |
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## TUESDAY, JUNE 23, 2026

|                 |              |                |
|-----------------|--------------|----------------|
| 7:30 AM–5:00 PM | Registration | Paradise Foyer |
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| 8:00 AM–12:00 Noon | <b>Session 3: Re-Examining Nonclinical Cardiovascular Safety Assessment in Drug Development</b> | Paradise Ballroom |
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| 9:00 AM–1:00 PM | <b>Exhibits and Posters Sessions Open</b> | Sunset Ballroom |
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| 10:00 AM–10:30 AM | <b>Break: Please visit Exhibits and Poster Sessions.</b> | Sunset Ballroom |
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| 12:00 Noon–1:30 PM | <b>Committee Social</b> | Dockside Room |
|--------------------|-------------------------|---------------|

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| 1:30 PM–5:00 PM | <b>Career Development Workshop</b><br>The Path Ahead: Strategies for Wellbeing, Resilience, and Career Evolution | Paradise Ballroom |
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|-----------------|-----------------------------|-------------------------|
| 5:30 PM–7:00 PM | <b>Student/Mentor Event</b> | Executive Suite 709/711 |
|-----------------|-----------------------------|-------------------------|

## WEDNESDAY, JUNE 24, 2026

|                 |              |                |
|-----------------|--------------|----------------|
| 7:30 AM–5:30 PM | Registration | Paradise Foyer |
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| 8:00 AM–12:00 Noon | <b>Session 4: Models in Motion: Bridging Modalities, Mechanisms, and Translation</b> | Paradise Ballroom |
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|-----------------|---|-----------------|
| 9:00 AM–1:00 PM | <b>Exhibits and Posters Sessions Open</b> | Sunset Ballroom |
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| 10:00 AM–10:30 AM | <b>Break: Please visit Exhibits and Poster Sessions.</b> | Sunset Ballroom |
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| 1:30 PM–5:00 PM | <b>Session 5: Positioning AI and NAMs for Impact in Cardiovascular Safety Assessment</b> | Paradise Ballroom |
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|                 |              |                |
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| 3:00 PM–3:30 AM | <b>Break</b> | Paradise Foyer |
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| 5:30 PM–6:30 PM | <b>Awards and Recognition Ceremony</b> | Paradise Ballroom |
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| 7:00 PM–9:00 PM | <b>President's Reception</b> | Sunset Ballroom |
|-----------------|------------------------------|-----------------|

|         |                          |  |
|---------|--------------------------|--|
| 9:00 PM | <b>Meeting Adjourned</b> |  |
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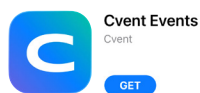
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## 2026 Annual Symposium Mobile App Quick Start Guide



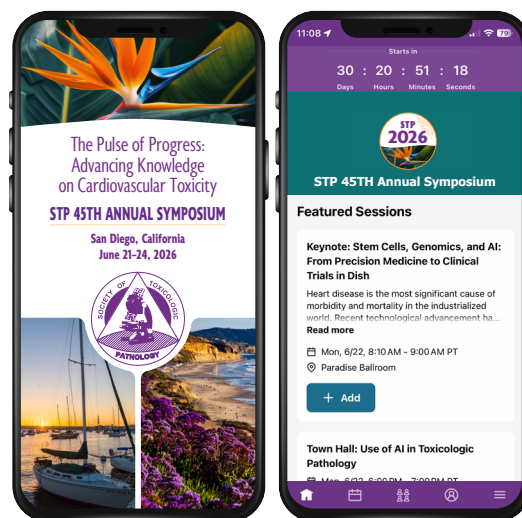
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GET

Download the Cvent Events mobile app from your app marketplace or from [www.toxpath.org/am2026/app.asp](http://www.toxpath.org/am2026/app.asp) and search for **STP 45th Annual Symposium**.



**Log in with your name and email.** Click on Profile to access your profile and to manage your communications and privacy settings.



### Additional Features

Select the menu options to view additional features in the app, including meeting attendees, maps, poster abstracts, exhibitors, sponsors, surveys, and much more!

### Use the advance search feature on each page to search by:

**Schedule**—by Session or Event Title, or by Session or Event Type

**Poster**—by Poster Number or Title

**Speakers**—by Name or Affiliation

**Exhibitors**—by Company Name or Booth Number

**Attendees**—by Name or Affiliation

**NOTE:** If you are unable to access the app on a mobile device, you may access the attendee hub online version from [www.toxpath.org/am2026.asp](http://www.toxpath.org/am2026.asp).

In our continuing efforts to reduce paper usage and to provide pre-meeting access to meeting materials, including speaker and poster abstracts, the attendee list, session evaluations, and links to meeting-related events and surveys, attendees are encouraged to download the Cvent Events app from the Apple or Android stores, or [www.toxpath.org/am2026/app.asp](http://www.toxpath.org/am2026/app.asp), and search for the STP 45th Annual Symposium event.

Meeting materials can also be viewed online: [www.toxpath.org/am2026/materials.asp](http://www.toxpath.org/am2026/materials.asp). You will be prompted for a login. Members can access with normal STP login. Other attendees can access with login provided via email.

### Awards

#### 2026 STP Lifetime Achievement Award

**Robert C. Sills, DVM, PhD, DACVP, FIATP**



The Society of Toxicologic Pathology is pleased to honor Robert C. Sills, DVM, PhD, DACVP, FIATP, as the recipient of the STP 2026 Lifetime Achievement Award. Dr. Sills received his DVM degree from Tuskegee University (1984) and completed an internship in anatomical pathology from Tuskegee University (1985) and a combined residency/PhD in toxicologic pathology from Michigan State University (1991). He is currently a Senior Scientist and Chief of the Comparative and Molecular Pathogenesis Branch (CMPB) in the Division of Translational Toxicology (DTT) at the National Institute of Environmental Health Sciences (NIEHS), National Institutes of Health (NIH). He oversees six groups that are responsible for Anatomical and Clinical Toxicologic Pathology Evaluations, Molecular Pathology Investigations, Laboratory Animal Medicine, and Core Pathology Laboratories (Pathology Support, Mouse Embryo Phenotyping, Imaging Sciences and Artificial Intelligence) in the DTT and NIEHS. Additionally, he is an adjunct professor in the Department of Population Health and Pathobiology, College of Veterinary Medicine, North Carolina State University. His research interests include the study of molecular mechanisms of non-cancer and cancer diseases related to environmental exposures, alongside a special interest in neuropathology evaluations.

A long-standing member of the Society of Toxicologic Pathology (STP), American College of Veterinary Pathologists (ACVP), and the American Veterinary Medical Association (AVMA), Dr. Sills has served on the STP Executive Council, Nominations Committee, and as STP President (2013-2014) in addition to being on the Editorial Board of *Toxicologic Pathology*. He has chaired numerous STP annual meeting sessions on the human genome, implications for toxicologic pathology and carcinogenesis, as well as sessions on cellular and molecular neurocarcinogenesis, and toxicologic pathology of the nervous system. In addition, he has been an advocate for global outreach with the web-based National Toxicology Program (NTP) Nonneoplastic Lesion Atlas, NTP Rodent Ultrastructure Atlas, and DTT Global Toxicologic Pathology Training Program and Mouse Embryo Atlases that have been developed by DTT pathologists in partnership with esteemed colleagues. With over 150 peer-reviewed publications and nine book chapters, his research in molecular carcinogenesis and neurosciences has consistently advanced scientific understanding in the field.

#### 2026 STP Mid-Career Excellence Award

**Bhanu Singh, BVSc, MS, DACVP, DABT, FIATP**



The Society of Toxicologic Pathology takes great pleasure in recognizing Bhanu Singh, as recipient of the STP 2026 Mid-Career Excellence Award. Dr. Singh received his veterinary degree from Govind Ballabh Pant University of Agriculture and Technology, Pantnagar, India, in 2000, followed by an MS in Veterinary Pathology from Utrecht University, The Netherlands, in 2003. He completed his Pathology residency at the Royal Veterinary College, London in 2006 under the mentorship of Dr. LuAnn McKinney. He became a Diplomate of the American College of Veterinary Pathologists in 2007 and Diplomate of the American Board of Toxicology in 2010. He did his postdoctoral fellowship at the National Institute of Environmental Health Sciences with Dr. Dave Malarkey. Dr. Singh currently leads nonclinical safety and toxicologic pathology at Calico Labs, advancing the understanding of aging biology and developing interventions that extend healthy human lifespan. Prior to joining Calico, he held scientific roles of increasing responsibility at DuPont, Janssen Pharmaceuticals, and Gilead Sciences, supporting discovery and nonclinical safety across oncology, cardiovascular and metabolic diseases, immunology and virology programs. His expertise spans toxicologic pathology, long-acting injectable therapeutics for HIV treatment and prevention, drug-induced liver injury, and risk assessment of chemical carcinogenesis.

Dr. Singh has actively served in professional activities for various societies of toxicology and pathology, including Chair of the STP Education Committee, President of SOT specialty section (CTPVSS), Associate Editor for *Drug and Chemical Toxicology*, and leading international nomenclature initiatives (INHAND) working groups on rodent liver and dog pathology. A Fellow of the International Academy of Toxicologic Pathology, Dr. Singh is the recipient of the Outstanding Mid-Career Scientist Award (2022) and the Senior Toxicologist Award (2025) from the Society of Toxicology. He has authored more than 30 peer-reviewed publications, six book chapters, and has delivered over 100 scientific presentations worldwide.

#### 2026 STP Outstanding Mentor Award

**Ronald Herbert, DVM, PhD, FIATP**



The Society of Toxicologic Pathology is proud to recognize Ronald Herbert, DVM, PhD, FIATP, as the 2026 STP Outstanding Mentor Awardee. Dr. Herbert is a veterinary pathologist with over 30 years' experience in anatomic and diagnostic toxicologic pathology and pathology peer review of short- and long-term rodent toxicity and carcinogenicity studies. He earned his BS degrees in Biology and Animal and Poultry Science from Tuskegee University, and his DVM from the Tuskegee University College of Veterinary Medicine (1985). Following a 5-year residency/fellowship and a PhD in anatomic and comparative pathology at the Purdue University School of Veterinary Medicine (1991), Ron completed a 3-year postdoctoral fellowship in toxicologic pathology and pathology peer review in the National Toxicology Program (NTP), National Institute of Environmental Health Sciences (NIEHS) joining the NTP as a staff scientist in 1994. Currently, he serves as a senior scientist/toxicologic pathologist/consultant in pathology within the Comparative and Molecular Pathogenesis Branch (CMPB), Division of Translational Toxicology. He leads the Pathology Support Group and is responsible for managing the Necropsy, Histology, Immunohistochemistry and Electron Microscopy Core Laboratories and the Imaging Sciences (Artificial Intelligence/Image Analysis) Group.

As an active member of the STP, Dr. Herbert has served on multiple committees and working groups, including the INHAND Editorial Global Steering Committee and as the NIEHS/NTP Liaison to the STP. He has authored or co-authored numerous peer-reviewed articles in leading biomedical journals as well as several book chapters and NTP technical reports. His areas of interest include chemical-induced toxicity and carcinogenesis, and toxicologic pathology with emphasis on pathology peer review, pathology of the respiratory and female reproductive systems, digital pathology, and Artificial Intelligence (AI) for qualitative and quantitative pathology evaluations, and generative AI. Dr. Herbert is deeply committed to mentorship. He has mentored numerous pathology residents and junior pathologists who have established themselves in careers spanning government, industry, and academia. He has also guided many undergraduate and summer interns, who have entered graduate programs in the biological sciences and gone on to successful careers in veterinary and human medicine.

### The Daniel Morton and Laura Dill Morton Scholarship (2026)

**Mallikarjun Bidarimath**, BVSc, MVSc, MSc, PhD, DABT



Dr. Mallikarjun Bidarimath is a veterinarian and biomedical scientist dedicated to advancing human and animal health through drug discovery and translational toxicologic pathology. He is currently an Anatomic and Toxicologic Pathology Fellow in the Global Toxicologic Pathology Training Program at the National Institute of Environmental Health Sciences (NIEHS) and the National Toxicology Program (NTP). A Diplomate of the American Board of Toxicology, he is pursuing board certification with the American College of Veterinary Pathologists.

Originally trained in veterinary medicine in India, Dr. Bidarimath earned his PhD in Reproductive and Developmental Sciences from Queen's University, Canada. He subsequently completed advanced training in experimental and comparative pathology at Cornell University and diagnostic pathology residency training at Louisiana State University. Prior to joining NIEHS, he served as a Visiting Scientist at the US Food and Drug Administration, contributing to research on SARS-CoV-2 pathogenesis and drug-induced developmental and reproductive toxicity.

His current research focuses on lung carcinogenesis, molecular biomarkers, and the integration of digital and AI-based pathology tools to enhance predictive toxicology. He has authored over 20 peer-reviewed publications, received multiple honors including the Outstanding New Investigator Award, and serves as Collections Editor for *Toxicologic Pathology*, where he helps maintain up-to-date research collections. He is also an active member of the STP Internet Committee. Outside of his research, he is committed to mentorship and scientific outreach.

### 2026 STP Student Travel Grants

**Mallikarjun Bidarimath**

National Institute of Environmental Health Sciences

**Samantha Hicks-Peña**

Texas A&M University

**Courtney Moore**

Wake Forest University

**Alok Singh**

Shobhaben Pratapbhai Patel School of Pharmacy & Technology Management, SVKM's Narsee Monjee Institute of Management Studies (NMIMS)

**Mark Bilger**

University of Wisconsin-Madison

**Leone Hopkins**

The Ohio State University

**Jonathan Nagel**

University of North Carolina at Chapel Hill

**Bo Chen**

University of Melbourne

**Van Hovenga**

University of California Berkeley

**Mrinal Patnaik**

All India Institute of Medical Sciences Raipur

**Manisha Yadav**

CSIR-Central Drug Research Institute

**Allysa Cole**

The Ohio State University

**Erica Juszcyk**

Auburn University

**Nikhil Sanjay Rao**

Auburn University

**Adeeba Zaidi**

National Institute of Unani Medicine

**Laine Feller**

Johns Hopkins University

**Claire Kazen-Thompson**

University of North Carolina at Chapel Hill

**Guilherme Rogerio**

University of São Paulo

**Jiashi Feng**

University of Wisconsin-Madison

**Brian LaMendola**

Oregon Health and Science University

### 2026 STP Young Investigator Awards

Winners will be announced at the Awards and Recognition Ceremony on Wednesday, June 24, in Paradise Ballroom.

### 2026 STP/CTPVSS Student Award

**Ankit Laddha**, University of Connecticut, School of Pharmacy  
*"MRP4 Modulates Hepatic Response to Phenobarbital by Regulating Proliferative and Metabolic Pathways"*

### 2026 STP/ACVP Student Poster Award

**Caitlyn Anderson**, University of California Davis  
*"The Role of Neuronal Dishevelled-2 (Dvl2) in Prion-Induced Synaptotoxicity in Mice"*

### 2026 IATP STP Charles Capen Poster Award

**Laine Feller**, Johns Hopkins University  
*"Staphylococcus aureus Superantigens Suppress Sebaceous Gland Lipids to Promote Skin Colonization"*

# Toxicologic Pathology

Official Journal of the Society of Toxicologic Pathology, British Society of Toxicological Pathology, and European Society of Toxicologic Pathology

Editor-in-Chief: Kevin Keane, DVM, PhD, FIATP



Each year, the journal's Editor-in-Chief and Editorial Board select two Best Paper Awards: Best Paper for Original Manuscript and Best Paper for Invited Review/Review. The 2025 Best Paper Awards go to:

## Best Paper Award for Original Manuscript

Characterizing Antisense Oligonucleotide-Induced Histopathology Findings in Spinal Cord of Mauritius Cynomolgus Monkeys by Molecular Localization Investigation  
*Toxicologic Pathology*, vol. 53, 1: pp. 95–106. First published January 30, 2025.

Valérie Dubost, Kuno Wuersch, Kelley Penraat, Eric Johnson, Anja Wekkeli, Ramprasad Ramakrishna, Aline Piequet, Géraldine Greiner, Magali Jivkov, Esther Erard, Regine Hansen, Dominique Brees, Andreas Hartmann, Kamal Kumar Balavenkatraman, Jairo Nunes.

## Best Paper Award for Invited Review/Review

Virtual Control Groups in Non-clinical Toxicity Studies: Impacts on Toxicologic Clinical Pathology Data Interpretation

*Toxicologic Pathology*, vol. 53, 2: pp. 164–172. First published November 30, 2024.

Adeyemi O. Adedeji, Adi Wasserkrug Naor.

## SPECIAL MEMBERSHIP OFFER:

Nonmember registrants who apply for membership by July 1 and are accepted will receive complimentary membership and online journal issues for the remainder of the year.

## What Are the Benefits of STP Membership?



### Publications

- Society's Journal, *Toxicologic Pathology*
- Online *Scope* Newsletter



### Collaboration

- Annual Symposium
- Committees
- Other Activities
- Regional Meetings
- Working Groups



### Member Access

- **ToxPathNet**—Member Network
- ToxPath Newsgroup
- Early Drafts of Position Papers
- Full-Text Articles from *Toxicologic Pathology*
- STP Business Activities
- STP Membership Directory
- Surveys Conducted by the Scientific and Regulatory Policy Committee
- Career Surveys
- Presentations on Toxicologic Pathology for Nonpathologists (Regulators, Toxicologists, and Students)
- STP Special Interest Groups
- CE Courses and Selected Presentations



### Education

- Continuing Education
- Modular Education Course
- Regional Meetings
- Webinars



### Special Interest Groups

- Cardiovascular Toxicologic Pathology
- Clinical Pathology
- Complex *In Vitro* Models & Pathology
- Digital Pathology and Image Analysis
- Environmental Toxicologic Pathology
- Immune System
- Juvenile Pathology
- Medical Devices
- Molecular Pathology
- Musculoskeletal Pathology
- Neuropathology
- Nonhuman Primate Pathology
- Pig Toxicologic Pathology
- Reproductive Pathology
- Respiration and Inhalation Pathology
- Special Senses Organ Pathology

## Join Today

### Fast and Easy Online Membership Application

To learn more about STP activities visit [www.toxpath.org](http://www.toxpath.org). To apply online, select Membership Application from the navigation bar. Students are invited to apply for Student Membership.

[www.toxpath.org](http://www.toxpath.org)

# STP 45th Annual Symposium

THE PULSE OF PROGRESS: ADVANCING KNOWLEDGE ON CARDIOVASCULAR TOXICITY

## PROGRAM

### SUNDAY, JUNE 21

#### STP Satellite Symposium—Sponsored by AnaPath GmbH

9:00 AM–12:00 Noon, Paradise Ballroom

Chair: *Erin Quist, DVM, MS, PhD, DACVP, Charles River Laboratories, Inc.*

Co-Chair: *Katie Heinz-Taheny, DVM, PhD, DABT, DACVP, Eli Lilly and Company*

|                     |  |
|---------------------|--|
| 9:00 AM–9:10 AM     | <b>Welcome and Introductory Remarks</b><br><i>Erin Quist, DVM, MS, PhD, DACVP, Charles River Laboratories, Inc.</i>                            |
| 9:10 AM–9:30 AM     | <b>Two Bushy Tales from a Special Gal(ago)</b><br><i>Tzushan Sharon Yang, DVM, PhD, DACVP, Vanderbilt University Medical Center</i>            |
| 9:30 AM–10:00 AM    | <b>We Don't Talk About Brunner</b><br><i>Kristel Kegler, PhD, DVM, DECVP, AnaPath Services GmbH</i>  |
| 10:00 AM–10:30 AM   | <b>A Mouthful of Mystery</b><br><i>Jorden Manasse, BVMS, MRCVS, DACVP, Labcorp, Inc.</i>   |
| 10:30 AM–10:50 AM   | <b>Break</b>   |
| 10:50 AM–11:10 AM   | <b>Feeling a Little Blue?</b><br><i>Klaus Weber, PhD, DVM, MSc.Biol, DJSTP, AnaPath Services GmbH</i>  |
| 11:10 AM–11:30 AM   | <b>It Doesn't Get Much Betta Than This!</b><br><i>Wes Baumgartner, DVM, PhD, University of Illinois College of Veterinary Medicine</i>         |
| 11:30 AM–12:00 Noon | <b>Fish INHAND Nomenclature</b><br><i>Emily Meseck, DVM, MPH, DACVP, DABT, Chair, Global Editorial and Steering Committee (GESC) of INHAND</i> |

#### CE1

1:30 PM–5:00 PM, Paradise Ballroom

#### Beyond the Dipstick: Urinalysis as a Tool for In Depth Assessment of the Renal Structure and Function

Co-Chairs: *Susan Emeigh Hart, VMD, PhD, DACVP, DABT, ERT, Integrated ToxPath Consulting Services, LLC; and Allison Vitsky, DVM, DACVP, Pfizer, Inc.*

|                 |   |
|-----------------|---|
| 1:30 PM–1:35 PM | <b>Course Overview and Speaker Introductions</b><br><i>Allison Vitsky, DVM, DACVP, Pfizer, Inc.</i>   |
| 1:35 PM–2:15 PM | <b>Mining Liquid Gold: Maximizing the Data from Urinalysis in Nonclinical Toxicity Studies</b><br><i>Laura I. Boone, DVM, PhD, DACVP, DABT, Labcorp, Inc.</i>                 |
| 2:15 PM–2:55 PM | <b>Pitfalls of Urine Evaluation in Nonclinical Studies</b><br><i>Tiffany Scott, BSc, DVM, DACVP, Charles River Laboratories</i>   |
| 2:55 PM–3:25 PM | <b>Break</b>  |
| 3:25 PM–4:05 PM | <b>Urinalysis as a Non-Invasive Tool for Renal Functional Assessment</b><br><i>Susan Emeigh Hart, VMD, PhD, DACVP, DABT, ERT, Integrated ToxPath Consulting Services, LLC</i> |
| 4:05 PM–4:45 PM | <b>Urinalysis as a Tool for Non-Invasive Renal Tubular Injury</b><br><i>Adeyemi Adedeji, DVM, PhD, DACVP, Genentech</i>   |
| 4:45 PM–5:00 PM | <b>Panel Discussion</b>   |

#### Welcome Reception

5:30 PM–7:00 PM, Sunset Ballroom

#### Student/Mentor Mixer

7:00 PM–8:30 PM, Island Point Lawn

# STP 45th Annual Symposium

THE PULSE OF PROGRESS: ADVANCING KNOWLEDGE ON CARDIOVASCULAR TOXICITY

**MONDAY, JUNE 22**

## STP 45th Annual Symposium Welcome

8:00 AM–8:10 AM, Paradise Ballroom

## Keynote Presentation

8:10 AM–9:10 AM, Paradise Ballroom

### Stem Cells, Genomics, and AI: From Precision Medicine to Clinical Trials in Dish

Joe Wu, MD, PhD, Stanford University

## Session 1

9:10 AM–12:00 Noon, Paradise Ballroom

### Patient-Focused Cardiovascular Safety Assessment: Enhancing Translation

Co-Chairs: *Brian Berridge, DVM, PhD, DACVP, B2 Pathology Solutions LLC.; and Kathy Gabrielson, DVM, PhD, DACVP, Johns Hopkins University*

- 9:10 AM–9:45 AM **Cardiovascular Safety Assessment: Building Translational Bridges**  
*Brian Berridge, DVM, PhD, DACVP, B2 Pathology Solutions LLC.*
- 9:45 AM–10:15 AM **Break**
- 10:15 AM–10:50 AM **Cardio-Oncology: Bench to Bedside**  
*Javid Moslehi, MD, University of California, San Francisco*
- 10:50 AM–11:25 AM **Domoic Acid Associated Cardiotoxicity in Marine Mammals**  
*Maggie Martinez, DVM, MS, PhD, DACVP, The Marine Mammal Center*
- 11:25 AM–11:45 AM **Student Speaker**
- 11:45 AM–12:00 Noon **Student Speaker**

## Session 2

1:30 PM–5:00 PM, Paradise Ballroom

### Integrated Cardiovascular Safety Assessment—Collaboration with Safety Pharmacology

Co-Chairs: *Rebecca Kohnken, DVM, PhD, DACVP, AbbVie; and Hugo Vargas, PhD, DSP, Amgen Inc.*

- 1:30 PM–1:35 PM **Introduction**  
*Hugo Vargas, PhD, DSP, Amgen Inc.*
- 1:35 PM–2:15 PM **Safety Pharmacology Strategies: Practical Deconvolution and Decision Pathways**  
*Sridharan Rajamani, PhD, The Janssen Pharmaceutical Companies of Johnson & Johnson*
- 2:15 PM–3:00 PM **Integration of a Nonclinical Cardiovascular Safety Assessment**  
*Rebecca Kohnken, DVM, PhD, DACVP, AbbVie*
- 3:00 PM–3:30 PM **Break**
- 3:30 PM–4:05 PM **Cardiovascular Safety Pharmacology Integration into Toxicology Studies: A Review of What We Learned, Where We Are Now, and Futures Aims**  
*Steve Tichenor, PhD, Charles River Laboratories; Derek Leishman, PhD, Eli Lilly & Company; and Cathy Ruff, PhD, DSP, Genentech*
- 4:05 PM–4:40 PM **Integrating Secondary Pharmacology Data to Assess Cardiovascular Risk of Novel Compounds**  
*Kim Henderson Park, PhD, DABT, Amgen*
- 4:40 PM–5:00 PM **Regulatory Landscape for Preclinical NAMs in Drug Development**  
*Samantha Atkins, PhD, Guidon*

### Annual Business Meeting

5:30 PM–6:00 PM, Paradise Ballroom

### Town Hall: Use of AI in Toxicologic Pathology

6:00 PM–7:00 PM, Paradise Ballroom

### TUESDAY, JUNE 23

#### Session 3

8:00 AM–12:00 Noon, Paradise Ballroom

#### Re-Examining Nonclinical Cardiovascular Safety Assessment in Drug Development

Co-Chairs: *Heath Thomas, DVM, PhD, DACVP, Aclairo; and Todd Bourcier, PhD, White Oak Regulatory Tox, LLC.*

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|---------------------|--|
| 8:00 AM–8:40 AM     | <b>Session Introduction and Challenges in Drug Development with Cardiovascular Toxicity</b><br><i>Heath Thomas, DVM, PhD, DACVP, Aclairo</i>             |
| 8:40 AM–9:20 AM     | <b>Assessing the Value of Nonclinical Testing to Predict Cardiovascular Toxicity</b><br><i>Thomas Monticello, DVM, PhD, DACVP, ToxStrategies</i>         |
| 9:20 AM–10:00 AM    | <b>Heart of the Matter: Herceptin, Small Molecules, and a New Era of Cardiotoxicity</b><br><i>Noel Dybdal, DVM, PhD, DACVP, DACAW, Genentech</i>         |
| 10:00 AM–10:30 AM   | <b>Break</b>   |
| 10:30 AM–11:05 AM   | <b>Translational Biomarkers of Prothrombotic Imbalance</b><br><i>Cindy Fishman, VMD, PhD, GlaxoSmithKline</i>  |
| 11:05 AM–11:40 AM   | <b>Points to Consider for Revising the ICH S7A Guideline on Safety and Secondary Pharmacology</b><br><i>Derek Leishman, PhD, Eli Lilly &amp; Company</i> |
| 11:40 AM–12:00 Noon | <b>What's In a Name? An Update on INHAND CV Terminology</b><br><i>Brian Berridge, DVM, PhD, DACVP, B2 Pathology Solutions, LLC.</i>                      |

#### Committee Social

12:00 Noon–1:30 PM, Dockside Room  
*All STP committee members are invited.*

#### CDOC Tuesday

1:30 PM–5:00 PM, Paradise Ballroom  
*Refreshments Sponsored by DTR Labs*

#### Career Development Workshop

#### The Path Ahead: Strategies for Wellbeing, Resilience, and Career Evolution

Co-Chairs: *Jessica Grieves, DVM, PhD, DACVP, J&J Innovative Medicine; and Nicholas Vetter, DVM, DACVP, Inotiv*

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|-----------------|---|
| 1:30 PM–1:35 PM | <b>Introduction</b>   |
| 1:35 PM–2:10 PM | <b>Mental and Physical Wellbeing Throughout Career</b><br><i>Chuck Weidmeyer, DVM, PhD, DACVP, Charles River Laboratories</i>   |
| 2:10 PM–2:45 PM | <b>Voluntary and Involuntary Career Changes</b><br><i>Christina Alarcón, DVM, PhD, DACVP, Genentech</i>   |
| 2:45 PM–3:00 PM | <b>Break—Sponsored by DTR Labs</b>  |
| 3:00 PM–3:35 PM | <b>Self-Employment and Consulting</b><br><i>Mike Hawes, DVM, DACVP, Charter Preclinical</i>   |
| 3:35 PM–4:10 PM | <b>Career Development in an Evolving Industry</b><br><i>Rebecca Kohnken, DVM, PhD, DACVP, AbbVie</i>  |
| 4:10 PM–5:00 PM | <b>Adapting to New/Changing Management Roles and Building Leadership Skills (Panel)</b><br><i>Daniel Rudmann, DVM, PhD, DACVP, FIATP, Sanofi</i><br><i>Mary Carsillo, DVM, PhD, DACVP, Takeda</i><br><i>Bevin Zimmerman, DVM, PhD, DACVP, Charles River Laboratories</i><br><i>Mark Hoenerhoff, DVM, PhD, DACVP, FIATP, Inotiv</i><br><i>Chuck Weidmeyer, DVM, PhD, DACVP, Charles River Laboratories</i> |

#### Student/Mentor Event

5:30 PM–7:00 PM, Executive Suite 709/711

### WEDNESDAY, JUNE 24

#### Session 4

8:00 AM–12:00 Noon, Paradise Ballroom

#### Models in Motion: Bridging Modalities, Mechanisms, and Translation

Co-Chairs: *Vinicius Carreira, DVM, PhD, DACVP, DABT, J&J Innovative Medicine; and Deidre Dalmas, BS, MS, PhD, GlaxoSmithKline*

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|---------------------|--|
| 8:00 AM–9:30 AM     | <b>Navigating Cardiovascular Safety for Novel Modalities</b><br><i>Stephanie Klein, DVM, PhD, FTP Pathology, Ionis Pharmaceuticals; Ingrid Cornax, BS, Dphil, DVM, Altos Labs; and Basel Assaf, DVSc, PhD, DACVP, DABT, Sanofi</i> |
| 9:30 AM–10:00 AM    | <b>Integrating NAMs in Cardiovascular Safety: New Opportunities for Enhanced Risk Assessment</b><br><i>Sébastien Laurent, DVM, DESV-AP, DECVP, Sanofi</i>  |
| 10:00 AM–10:30 AM   | <b>Break</b>   |
| 10:30 AM–11:05 AM   | <b>Vascular Toxicity Associated with Novel Modalities: Biomarker Strategies for Detection and Monitoring</b><br><i>Allison Vitsky, DVM, DACVP, Pfizer, Inc.; and Jacqueline Tarrant, DVM, PhD, DACVP, Johnson &amp; Johnson</i>    |
| 11:05 AM–11:40 AM   | <b>Can Plasma Cell-Free DNA and Emerging Cytokine Biomarkers Augment Standard CV Biomarkers in Prediction of Acute or Even Long-Latency Cardiotoxicity?</b><br><i>Kathy Gabrielson, DVM, PhD, DACVP, Johns Hopkins University</i>  |
| 11:40 AM–12:00 Noon | <b>What's New—Evolving Consortia-Driven Approaches to Cardiovascular Risk Assessment and Biomarker Development</b><br><i>Deidre Dalmas, BS, MS, PhD, GlaxoSmithKline</i>   |

#### Session 5

1:30 PM–5:00 PM, Paradise Ballroom

#### Positioning AI and NAMs for Impact in Cardiovascular Safety Assessment

Co-Chairs: *Daniel Rudmann, DVM, PhD, DACVP, FIATP, Sanofi; and Michael Boyle, DVM, PhD, DACVP, FIATP, Immunome*

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|-----------------|--|
| 1:30 PM–2:15 PM | <b>Introduction to Deep Learning and GenAI Approaches to Cardiovascular Assessment</b><br><i>Daniel Rudmann, DVM, PhD, DACVP, FIATP, Sanofi</i>  |
| 2:15 PM–3:00 PM | <b>Predictive AI Models to Support Pathology Interpretation</b><br><i>Debra Tokarz, DVM, PhD, DACVP, EPL, Inc.</i>   |
| 3:00 PM–3:30 PM | <b>Break</b>   |
| 3:30 PM–4:05 PM | <b>Generative AI-Driven Quantitative Knowledge-Activity Relationships (QKARs) for Advancing Cardiotoxicity Prediction</b><br><i>Dongying Li, PhD, US FDA</i>   |
| 4:05 PM–4:40 PM | <b>The Predictive Value and Limitations of <i>In Silico</i> Proarrhythmia Evaluation Compared to Conventional ICH S7B/E14 Core Assays: A Nonclinical-Clinical Case Study</b><br><i>Hugo Vargas, PhD, DSP, Amgen Inc.</i> |
| 4:40 PM–5:00 PM | <b>Cancer Therapy-Associated Cardiomyopathy</b><br><i>Anna Narezkina, MD, FACC, DABIM, NBED, University of California San Diego Medical Center</i>   |

#### Awards and Recognition Ceremony

5:30 PM–6:30 PM, Paradise Ballroom

#### President's Reception

7:00 PM–9:00 PM, Sunset Ballroom

#### Meeting Adjournment

### GENERAL INFORMATION

#### Registration Materials

Attendee badges, At-a-Glance program, and participation ribbons (if appropriate) will be available for pickup at the Registration Desk.

#### Symposium Registration

Member, Nonmember, and Student full meeting registration fees include the symposium proceedings, access to scientific sessions, Exhibit Hall, morning and afternoon breaks during the scientific sessions, and admission for one to the Welcome Reception and President's Reception.

#### Guest Registration

The Guest registration fee includes one admission to the Welcome Reception (Sunday) and the President's Reception (Wednesday).

#### Exhibit Hall Policies

Out of courtesy for the scientific presenters and exhibitors, we appreciate your compliance with the following policies:

#### Photography Policy

Photography of poster presentations is prohibited without the specific consent of the presenter(s)/author(s). All photography is prohibited in scientific sessions.

Photography of exhibitor booths and/or equipment is prohibited without the specific consent of the exhibitor.

#### Children Under 18 Years of Age

To ensure their safety, children under the age of 18 are not permitted in the Exhibit Hall at any time including during the Exhibit hours, Welcome Reception, and Poster Sessions.

#### Safety and Security Tips

Here are a few quick tips for your safety and security—for more tips, please see the mobile app:

1. Be sure to wear your name badge while in the conference venue. For security purposes, it is recommended to remove your badge outside the conference venue and keep in a secure place. If you lose your badge, please go to the Registration Desk for assistance.
2. Walk in well-lighted areas preferably with a group.
3. Do not leave bags or items unsecured in any meeting room, display, or other area. If you see any suspicious articles, packages, persons, or activity, please contact the event staff or security immediately.
4. For further tips, including responding to protesting of any kind, please see the mobile app for details. Always contact event staff or security rather than engage a protester.

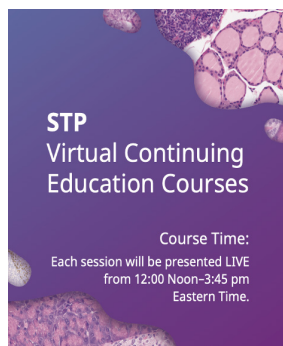
#### Complimentary Wi-Fi Options

Complimentary wireless internet is available in Paradise Point Conference Center for STP meeting attendees. To connect in the meeting space, select the 'Paradise26' network, and provide the access code 'stp2026.'

Complimentary internet access is also provided in the guest rooms of the hotel when booking within the STP room block.

## STP Educational Opportunities

### STP Virtual Continuing Education Course



#### Environmental Impacts on Neurodevelopmental and Neurodegenerative Conditions

Friday, September 11, 2026  
12:00 Noon–3:45 PM EDT

### STP Virtual Modular Education Course



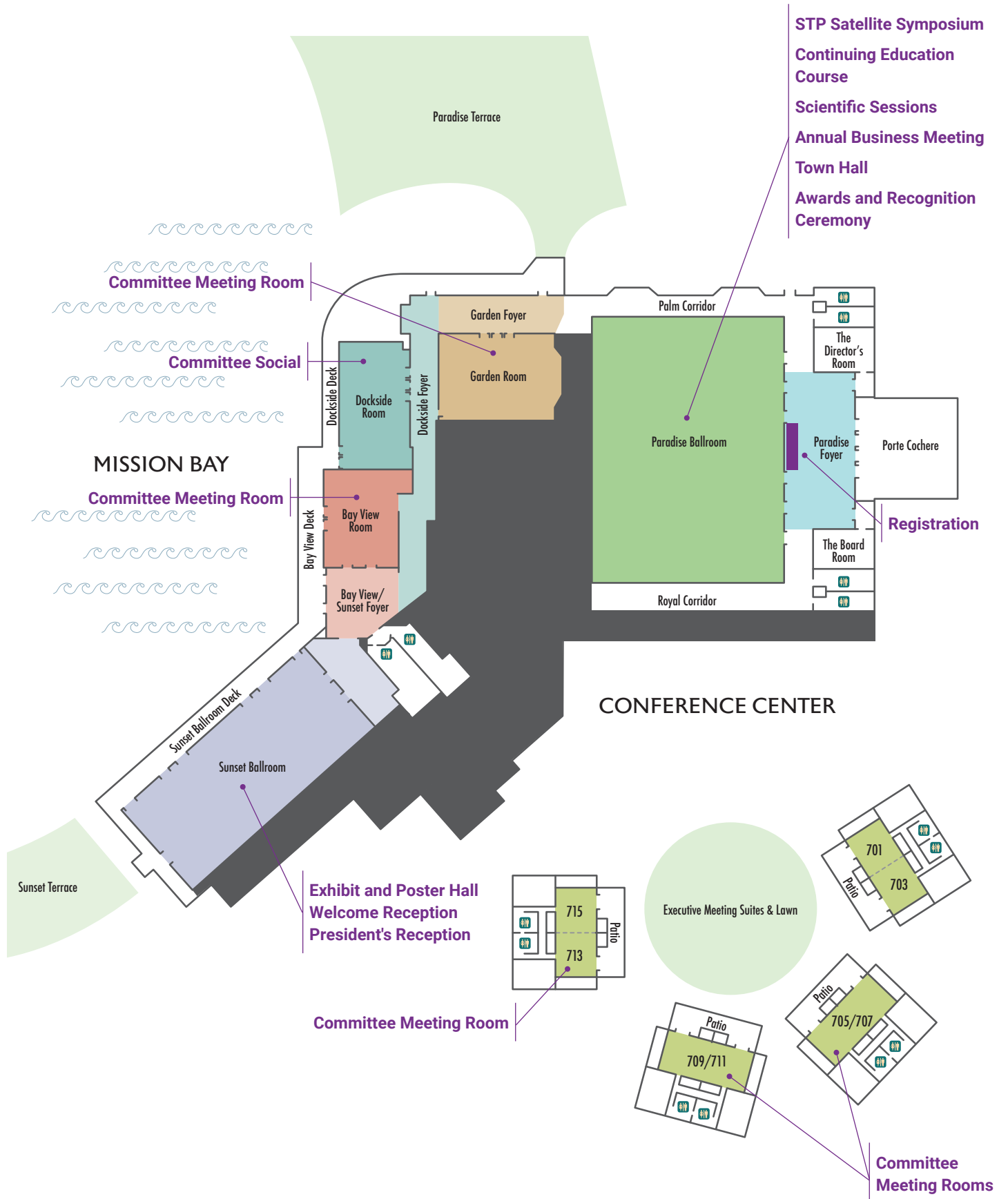
#### Digestive System Pathology

October 12–28, 2026  
Mondays and Wednesdays  
10:00 AM–1:30 PM EDT

# STP 45th Annual Symposium

THE PULSE OF PROGRESS: ADVANCING KNOWLEDGE ON CARDIOVASCULAR TOXICITY

## Paradise Point Conference Center



### Poster Setup and Presentation Times

**Poster Presentation Times**

*(Please plan to attend your posters during the following times)*

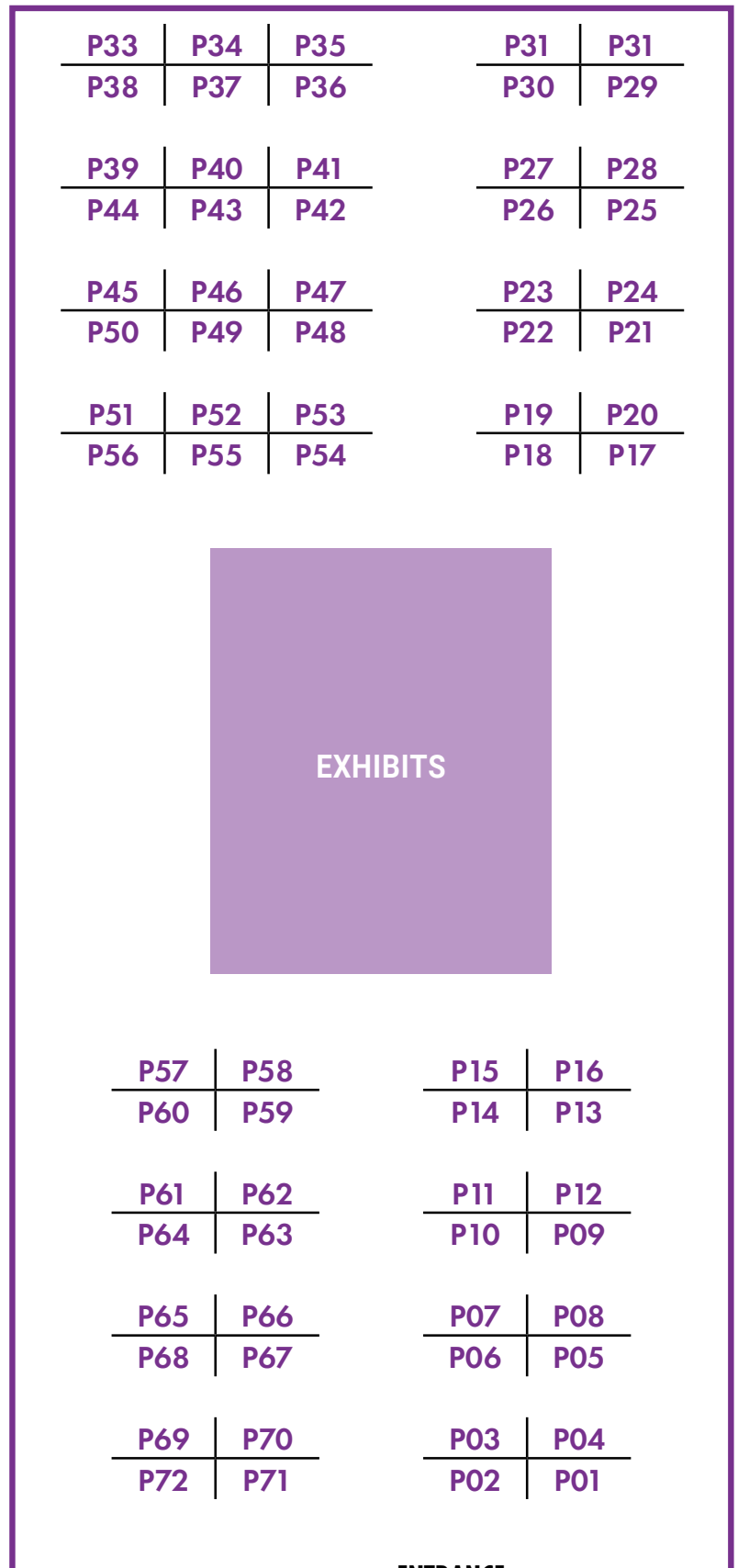
Sunday, June 21 (Welcome Reception)..... 6:00 PM–6:30 PM  
 Monday, June 22..... 9:45 AM–10:15 AM and 3:00 PM–3:30 PM  
 Tuesday, June 23 ..... 10:00 AM–10:30 AM  
 Wednesday, June 24..... 10:00 AM–10:30 AM

**Poster Setup**

Sunday, June 21 ..... 12:00 Noon–5:00 PM

**Poster Teardown**

Wednesday, June 24..... 1:00 PM–2:00 PM  
 If your poster is not removed before 2:00 PM, it will be removed and placed outside the Exhibit Hall.



### Poster Presentation Index

#### Poster Categories

|   |              |   |         |
|---|--------------|---|---------|
| Young Investigator Award Candidate.....             | P01–P28      | New Technologies.....                               | P46–P55 |
| Biomarkers .....                                    | P29          | Oncology/Carcinogenesis .....                       | P56     |
| Systemic/Organ-Specific Toxicologic Pathology ..... | P30          | Systemic/Organ-Specific Toxicologic Pathology ..... | P57–P69 |
| General Pathology/Toxicologic Pathology.....        | P31–P45, P70 |   |         |

**P01 Utility of Immunohistochemical Characterization of Prechronic Lung Lesions as Early Markers of Chemical-Induced Carcinogenesis in Rodent Toxicology Studies**

*Mallikarjun Bidarimath, Mark F. Cesta, Robert C. Sills, Sonika Patial*

**P02 Chronic Liver Toxicity Promotes Liver Fibrosis by Hepatocyte Dedifferentiation Into Myofibroblast-Like Cells Through the TGF- $\beta$ 1-Oct4 Axis**

*Manisha Yadav, Shobhit Verma, Smriti Verma, Madhav Nilakanth Mugale*

**P03 Hsd17b7 Is Required for Proper Mammalian CNS Development**

*Bayla Bessemer, Rolf Stottmann*

**P04 Sectional and Transmural Variation in Ultrastructural Morphology of the Left Ventricle in Canine Primary Dilated Cardiomyopathy**

*Mark D. Bilger, Lisa Freeman*

**P05 MRP4 Modulates Hepatic Response to Phenobarbital by Regulating Proliferative and Metabolic Pathways**

*Ankit P. Laddha, Hangyu Wu, José E. Manautou*

**P06 Loss of Brain Resilience with microRNA-29 Reduction in the Context of Alzheimer's Disease**

*Jonathan Nagel, Nazanin Kiapour, Keeley Spiess, Sheryl Moy, Mohanish Deshmukh*

**P07 Can You Identify Hepatic Sinusoidal Lining Cells On HE Sections?**

*Hinata Niimi, Mitsuru Kuwamura, Takeshi Izawa*

**P08 Autopsy-Based Evidence of Early Hepatocellular Injury in Fatal Glyphosate Poisoning in a 16-Year-Old Girl**

*Mrinal Patnaik, Poonam Patnaik*

**P09 Microscopic Nomenclature Used in Evaluation of Nonclinical Wound Healing Studies: Highlighting Gaps in Current INHAND Terminology**

*Elise M. Peauroi, Sarah Davis, Lyn M. Wancket*

**P10 An Indian Traditional Medicine – Vasant Kusumakar Rasa Ameliorates Renal Damage in Diabetic Rats**

*Alok D. Singh, Mukesh B. Chawda, Yogesh A. Kulkarni*

**P11 Identification of Disease-Associated Polyomaviruses from Cynomolgus Macaques Undergoing Stem Cell Transplantation**

*Helena Vogel, Tristan T. Neal, Helen L. Wu, Paul Kievit, Jonah B. Sacha, Gabriel J. Starrett*

**P12 Modeling Th2-Driven Pathogenesis of Atopic Dermatitis Using Canine Primary Epidermal Organoids**

*Bo Chen, Ron Slocombe, Yuanting Zheng, Mirjana Bogeski, Oluwadamilola Samuel Omotainsea, Smitha Rose Georgy*

**P13 From Constraints to Capability: Developing a User-Friendly Deep Learning Framework in a Cost-Constrained Research Environment**

*Brian R. LaMendola, Rachael M. Wolters, Altair E. Fazio, Nathan P. Crilly*

**P14 A Two-Phase Validation Framework Informed by an *In Vitro* Cardiotoxicity Screening Case Study**

*Yigunag Zhu, Kathleen Gabrielson, Mark Kohr, Vasiliki Machairaki, Lena Smirnova, Paul A. Locke*

**P15 Spatiotemporal Analyses of Early Hepatocarcinogenesis Reveal Liver-Resident ILC1s as a Major Player in Early Immune Surveillance**

*Patrick Huang, Rajiv Trehan, Benjamin Ruf, Chi Ma, Dana Soika, Lorenz Kocheise, Gabriel Bacil Prata, Tim Greten, Firouzeh Korangy*

**P16 A Novel TGF $\beta$  Pathway Reporter Mouse Reveals Stage-Specific Suppression of Mitochondrial Metabolism in Mammary Tumorigenesis**

*Zachary Millman, Lalage Wakefield, Yu-an Yang*

**P17 Analyzing the Genetic Basis and Transcriptional Features of Sarcomas in Irradiated Rhesus Macaques**

*Courtney S. Moore, Karl Dykema, Nury Steuerwald, Mark Cline*

**P18 Microplastic-Induced Cellular Toxicity: Effects on Connexin 43 and Connexin 26 Expression in Canine Mammary Cell Lines**

*Guilherme da Silva Rogerio, Ivone Izabel Mackowiack da Fonseca, Maria Lúcia Zaidan Dagli*

**P19 Antileukemic Potential of Hydroalcoholic Extract of *Fagonia cretica* L. in Benzene-Induced Leukemia in Rats**

*Adeeba Zaidi, Nasreen Jahan*

**P20 Severe Ocular Necrotizing Vasculopathy Following Suprachoroidal Delivery of a Polymeric Formulation in a Rhesus Macaque**

*Akhil A. Vinithakumar, Katharina M. Gregor, Mirella Rivera-Velazquez, Sarah E. Cook, Marie-Josée Marie-France Lemoy, Rebecca L. Sammak, Glenn Yiu, Katherine J. Olstad*

**P21 Treatment with Small-Molecule Biofilm Inhibitors in a Novel Murine Model of Chronic Typhoid Fever**

*Allysa L. Cole, John S. Gunn*

**P22 *Staphylococcus aureus* Superantigens Suppress Sebaceous Gland Lipids to Promote Skin Colonization**

*Laine E. Feller, Zhiyang Li, Diane Hong, Toan Bui, Sabrina Kline, Meng-Jen Wu, Jing Zhang, Yu Wang, Shardulendra P. Sherchand, M. Javad Aman, Stephen W. Tuffs, Heidi H. Kong, Sima Rozati, Nathan K. Archer*

**P23 Historical Microscopic Control Data of the Central and Peripheral Nervous System in Beagles**

*Samantha Hicks-Peña, Charlotte Hollinger, Molly Liepnieks, Sarah Coe*

- P24** Poster Withdrawn
- P25** **Hepatotoxicity Associated with Portosystemic Shunts in C57BL/6J Mice Fed a High Fat Diet with Butylated Hydroxyanisole**  
*Claire Kazen-Thompson, Rani S. Sellers, Summer Truong, Tigist Tamir*
- P26** **Novel Double *abcb4/abcg2a* Knockout Zebrafish Model for Studying ABC Transporter-Mediated Drug Efflux and Toxicity**  
*Chaunte Lewis, Joanna Thomas, Blake Carrington, Kevin Bishop, Robert Robey*
- P27** **Recovery Mechanism of Drug-Induced Vacuolar Lesions of the Adrenal Cortex After Drug Withdrawal**  
*Ryo D. Obara, Yuki Kato, Yoshiji Asaoka, Yukie Murata, Hiroyuki Oka, Takeshi Izawa, Mitsuru Kuwamura*
- P28** **Comparative Evaluation of Historical Control Hematology, Coagulation, and Clinical Chemistry Test Results between Sprague-Dawley and Wistar-Han Rats**  
*Vasilis C. Pliavas, Charles E. Wiedmeyer*
- P29** **Immunohistochemical Delineation of Macrophage Functional States for Disease Characterization**  
*Dayananda Siddappa, Ingeborg M. Langohr, Catherine King, Tatyana Taksir, Cynthia Shapiro, Colleen Maloney, Agnes Cheong, Timothy Hammond, Caroline Morel, Dinesh S. Bangari*
- P30** **Azoxymethane-Treated Pirc Rats as an Accelerated Model of Colorectal Cancer**  
*Allison C. Boone, Ricardo Cortes, Xuying Zhang, Krishna Latha Kanchi, Willie Cunningham, Peter Padiaditakis, Thai-Vu Ton, Arun Pandiri*
- P31** **Brain Pathology in Irradiated Nonhuman Primates: Vascular Injury is Radiation Dose Dependent**  
*Clemer Abad, John Olson, George Schaaf, J. Mark Cline*
- P32** **Comparative Pathology of a Macaque Model of Bardet-Biedl Syndrome due to BBS7 Mutation**  
*Nathan P. Crilly, Brian Lamendola, Anne Lewis, Kathy Grant*
- P33** **Assessment of Orchidometric Testicular Volume as a Tool for Selecting Sexually Mature Male Rhesus Monkeys for Nonclinical Toxicology Studies**  
*Maria C. Cuitino, Takayuki Tsuchiya, Sabu Kuruville*
- P34** **INHAND: International Harmonization of Nomenclature and Diagnostic Criteria for Lesions—An Update**  
*Emily Meseck, Ute Bach, Alys Bradley, Mark Cesta, Stacey Fossey, Shimo Hayashi, Matt Jacobsen, Rupert Kellner, Victoria Laast, Thomas Nolte, Kumiko Ogawa, Susanne Rittinghausen, Junko Sato, John Vahle, Katsuhiko Yoshizawa*
- P35** **Comparison of Background Histologic Findings in Cynomolgus Macaques of Philippine vs. Other Asian Origin**  
*Melissa Graham, Kelly Ashcroft-Hawley, Lars Mecklenburg, Julie Turner, Jim Saul, Victoria Laast, Alok Sharma*
- P36** **Reference Intervals for Clinical Pathology Parameters in Sprague-Dawley Rats in Juvenile Animal Toxicity Studies**  
*Aradhana Gupta, Stavros Zinonos, Lindsay Tomlinson, Taylor Hulten, Stephanie S. Powlin, Nicola Powles Glover, Keith R. Shockley, Alan M. Hoberman, Zhiyong Xie, Stephanie L. Rayhon, Tacey White, Shermaine Mitchell-Ryan, Connie L. Chen*
- P37** **Regional Differences in Tissue Responses After Stent Deployment in Subclavian and Carotid Arteries in Swine Model**  
*Atsushi Isobe, Ryan Callahan*
- P38** Poster Withdrawn
- P39** **Dose-Dependent Early Fibrotic Remodeling in a Recurrent LPS-Induced Acute Lung Injury Rat Model: Translational Implications for Human ALI**  
*Predrag Novakovic, Bo In Choi, Alexander-Yap Sia, Joseph Younan, William Lee, Kevin McInally*
- P40** **Background Thymic Epithelial Hyperplasia and Thymoma in rasH2 Transgenic Mice from 26-Week Carcinogenicity Studies**  
*Sasmitha Mishra, Vimala Vemireddi, Marcia Pereira Bacare, Molly Boyle, Mark Mense, Alok Sharma*
- P41** **Renal Tubular Injury in Naturally Occurring Arsenic Toxicosis in Cattle with Suspected Waterborne Exposure**  
*Nikhil Sanjay Rao, Jenna Stockler, Rachel Neto*
- P42** **Impact of Duration and Setting of Urine Collection on Urinalysis and Urine Chemistry Parameters in Non-Human Primates**  
*Tiffany N. Scott, Frederic Morel, Gabriella Diamantino, Liza Bau-Gaudreault, Florence Poitout*
- P43** **Phenotypic Characterization of Fra-2 Transgenic Mice as a Model of Scleroderma**  
*Yinglin Gao, Traci Wilgus, Luis Cheng, Bharathi Sundaram, Ted Kaplan, Abigail Gagliardi, Susannah Brydges, Lori Morton, Jon Popke, Prachi Sharma*
- P44** **Toxicological Profile of Therapeutic Radionuclides and Radiopharmaceuticals in Animal Studies: A Scoping Review**  
*Jong Il Shin, Jin Young Baik, Yiseul Choi, Eun Sang Lee, Yong Jin Lee, Kwang Il Kim*
- P45** **Procedure-Related Findings Associated with Subcutaneous Injection in Non-Human Primates Utilized in Preclinical Toxicity Studies**  
*Nick Vetter, Keith Nelson*
- P46** **Application of an Artificial Intelligence Model for Quantitative Evaluation of Rat Bone Marrow Cell Lineages in Toxicology Studies**  
*Mehrdad Ameri, Deon Hildebrand, Peter Clements*
- P47** **Performance of a Single-Class Unsupervised Foundation Model-Based AI Histology Anomaly Detector on Rat Heart from Nonclinical Toxicology Studies**  
*Thomas Forest, Tiffany Jenkins, Roujia Wang, Kyathanahalli Janardhan, Takayuki Tsuchiya, Rajath Soans, Lin Li, Tosha Shah, Raghav Amaravadi, Geetank Raipuria, Nitin Singhal*
- P48** **Enumeration and Laser Capture of Lung Cancer Metastasis in a Mouse Model Using AI Workflows**  
*Raisa Glabman, Amanda Koehne, Jacob Kennedy, Shivani Srivastava*

- P49 Automated Quantification of Airway Epithelial Cell Composition in Complex *In Vitro* Models Using Deep Learning-Based Image Analysis**  
*Van Hovenga, Steven Laing, Christy Chu, Daniel Simmons, Mike Reichelt, Lenitza Nives Lopez*
- P50 Optimization of *In Situ* Hybridization (ISH) Staining in Human Tissue Microarrays: Addressing RNA Quality and Background in Challenging Tissues**  
*Emily M. King, Kevin Maisonave, Lydia Andrew-Jones, Amanda Krempley, Magali Guffroy, Stacey Fossey*
- P51 Uncharted Territories: Leveraging MALDI-MSI in the Canine Brain as a Novel Translational Neurology Platform**  
*Sophie R. Nelissen, Rinat Abzalimov, Shu Zhang, Elena A. Demeter*
- P52 Teratoma Formation Assay in Immunocompromised Mice to Evaluate Risk of Pluripotent Stem Cell-Derived Cell Therapy Products**  
*Tyler J. Peat, Sasmita Mishra, Brian E. McIntosh, Mayuri S. Prasad, Susan Lynk, Pamela E. Blackshear*
- P53 Agentic Artificial Intelligence System for Preclinical Toxicologic Study Report Drafting via Integrated Data Analysis, Research and Reasoning**  
*Nasir Rajpoot, Adnan Khan, Mostafa Jahanifar, David Snead*
- P54 A Cell-Based Protein Array, the Membrane Proteome Array (MPA), to Assess Off Target Binding Across the Full Human Membrane Proteome**  
*Jonathan Richards, Diana Norden, Carmen Navia, J. Tabb Sullivan, Benjamin J. Doranz*
- P55 Unsupervised Deep Learning-Based Image Analysis Model for Detecting Unlearned Findings in Rat Testis**  
*Taishi Shimazaki, Yuzo Yasui, Naohito Yamada, Vedang Kshirsagar, Saketh Juturu, Pranab Samanta, Raghav Amaravadi, Toshiyuki Shoda*
- P56 Development of a Predictive Model Combining HPV DNA Genotyping and E6/E7 mRNA Testing for the Diagnosis of Cervical Precancerous Lesions**  
*Jingzheng Ye*
- P57 Tafazzin Overexpression with High Dose AAV in Tafazzin Knockdown Mice Leads to Cardiotoxicity**  
*Elizabeth L. Buza, Nicholas Roberts, Christina Chen, Swapnil V. Shewale, Peter Bell, Juliette Hordeaux, James M. Wilson*
- P58 Histologic Method for Nonhuman Primate Tooth Evaluation on Toxicity Studies**  
*Sarah Coe, Rachel Stoops, Chris Bollinger, Deanna Buford, Matthew Zipprich, Susan Kent, Judit Markovits*
- P59 Refreshed ICR Mouse Colony to Eliminate Retinal Degeneration Associated with *pde6b* Mutation**  
*Sarah Coe, Jaymie Voorhees, Charlotte Hollinger, Sheri Church*
- P60 Comparative Short-Term (5-day) *In Vivo* Repeat Dose Biological Potency Studies of Five *Ginkgo biloba* Extract Lots in Male F344/NCrl Rats: Selected Apical, Clinical Pathology and Toxicogenomic Results**  
*Michelle C. Cora, Cynthia V. Rider, Frederick Parham, Suramaya Waidyanatha, Georgia K. Roberts, Kelly A. Shipkowski, Scott S. Auerbach*
- P61 Spontaneous Cardiomyopathy in Mauritian-Source Compared to Asian-Source *Cynomolgus* Macaques: Incidence and Characterization**  
*Joshua H. Decker, Lydia L. Andrews-Jones, Wayne R. Buck, Stacey L. Fossey, Shima Mehrvar, Michele R. Phillips, Tatiana A. Sharapova, David Rehagen, Kevin O. Maisonave, Edyta Jarmulkowicz, Magali R. Guffroy*
- P62 Feline Valvular and Mural Eosinophilic and Granulomatous Endomyocarditis (Feline Hypereosinophilic Syndrome) with Congestive Heart Failure**  
*Paulina Gomez, Jessica Ward, Elizabeth Mason, Olufemi Fasina*
- P63 Spontaneous Cardiac Findings in Research Colony *Cynomolgus* and Rhesus Macaques: A 3-Year Survey**  
*Jiashi Feng, Sarah Coe, Nicholas Vetter*
- P64 Procedural-Related Microscopic Observations in Rats with Indwelling Intravenous Catheters in Nonclinical Toxicology Studies**  
*Sarai Milliron, Sherry Morgan*
- P65 Toxicologic Evaluation of RC-0315, a Mesenchymal Stem Cell-Derived Secretome, Following Repeated Intratracheal Administration in Mice**  
*Michael Timaner, Tali Fishman-Jacob, Michal Steiner, Noam Kronfeld, Abraham Nyska, Yuval Ramot*
- P66 Preliminary Studies for Neurotoxicity from Intranasal Exposure of Zinc Oxide Nanoparticles in APOE3 and APOE4 Humanized Mice**  
*Jesse Riker, Shaolin Liu*
- P67 Retrospective Study of Infectious Cardiac Lesions in Old and New World Nonhuman Primates: Morphologic Spectrum, Etiologies, and Implications for Toxicologic Pathology**  
*Vinay Shivanna, Donna Perry, Edward Dick, Olga Gonzalez*
- P68 Chronic Arteriovenous Fistula/Shunt in the Pelvic Limb of a Naïve Peripubertal *Cynomolgus* Monkey (*Macaca fascicularis*)**  
*Vanessa Vrolyk, Laura Neagu-Lund, Marie-Josée Desmarais*
- P69 Distinguishing Disease-Associated from Test Article-Related Thrombocytopenia in a SHIV-Infected Rhesus Macaque Following AAV-Delivered HIV-1 IgG Therapy**  
*Rachael Wolters, Altair Fazio, Philip Barnette, Tracy Ordonez, Monica Shroyer, Ann Hessell, Nancy Haigwood, Mauricio Martins*
- P70 Results of the 2026 Membership-Wide Survey on the Topics of Diversity, Inclusion and Belonging in the Society of Toxicologic Pathology**  
*Agathe Bedard, Christina Alarcón*

### STP Exhibition

#### Exhibit Hall Hours

##### Exhibitor Installation

Sunday, June 21 ..... 12:00 Noon–5:00 PM  
 All exhibits must be set up by 5:00 PM

##### Exhibit Hall Hours

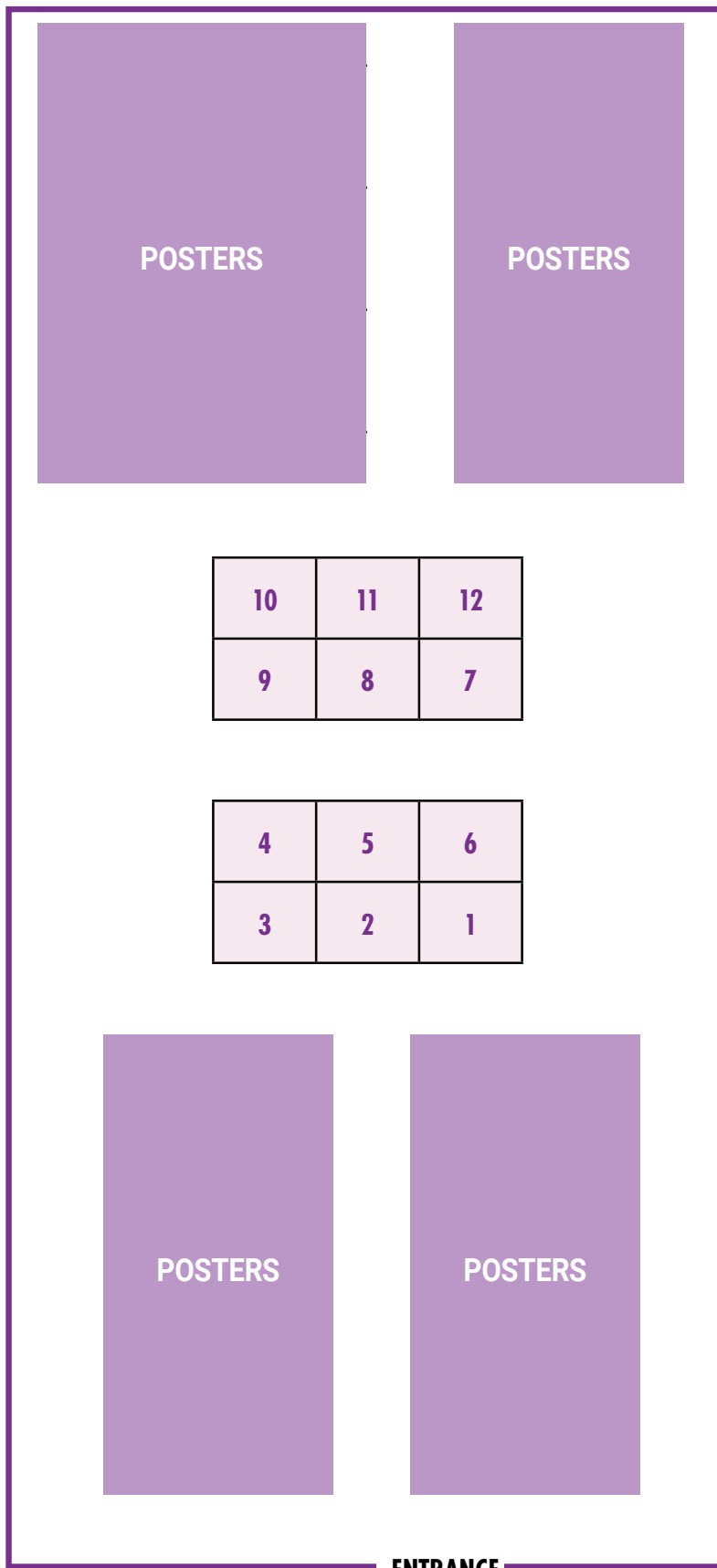
Sunday, June 21 ..... 5:30 PM–7:00 PM (Welcome Reception)  
 Monday, June 22 ..... 9:00 AM–4:00 PM  
 Tuesday, June 23 ..... 9:00 AM–1:00 PM  
 Wednesday, June 24 ..... 9:00 AM–1:00 PM

##### Exhibitor Move-Out

Wednesday, June 24 ..... 1:00 PM–3:00 PM

Exhibitor descriptions available in the mobile app and at: [www.toxpath.org/AM2026/exhibits.asp](http://www.toxpath.org/AM2026/exhibits.asp)

| Exhibitor/Company Name   | Booth # |
|--|---------|
| AIRA Matrix  | 5       |
| Antech GLP   | 3       |
| Charles River Laboratories   | 1       |
| EPL, Inc.  | 4       |
| Histofy Ltd  | 9       |
| Inotiv   | 7       |
| Instem   | 6       |
| Integral Molecular   | 12      |
| Pathcore   | 8       |
| Patholytix   | 10      |
| Roche Diagnostics Corporation  | 2       |
| Society of Toxicologic Pathology/ <i>Toxicologic Pathology Journal</i> | 11      |





# STP 46TH ANNUAL SYMPOSIUM

The Pathology of Neoplasia from Cause to Cure

Denver, Colorado - June 27-30, 2027

Hyatt Regency Denver

*Save the Date*



Registration opens in November

Visit [www.toxpath.org](http://www.toxpath.org) for more information

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