



Society of Toxicologic Pathology

28th Annual Symposium Washington, D.C. June 21-25, 2009

Symposium: Cancer

Marriott Wardman Park Hotel

REGISTER TODAY: www.toxpath.org

Abstract Submission Deadline is March 1, 2009



General Information

Symposium: Cancer

28th Annual
Symposium

Symposium: Cancer

Symposium Co-Chairs: Jerrold M. Ward, DVM, PhD, DACVP, Global VetPathology, Montgomery Village, MD, and Kathleen A. Funk, DVM, PhD, DACVP, EPL, Inc., Sterling, VA

The 2009 STP Symposium will cover the broad topic of “Cancer” in animals and humans. Cancer is a major cause of death in humans throughout the world. Cancer involves all organ systems and has many etiologies including chemicals, viruses, and irradiation but also has many important modifying factors such as genetics and diet. Cancer is the endpoint of a multistage process which begins as focal hyperplastic lesions and progresses, often through benign neoplasia, to malignant neoplasia. Toxicologic pathologists are often involved in studies involving tumors as an endpoint, including basic cancer research, studies with genetically engineered mice, and toxicology and carcinogenicity assays for safety assessment of chemicals. This symposium will cover various aspects of cancer: human cancer, cancer biology, mechanisms of carcinogenesis, regulation of carcinogens, use of genetically engineered mice for carcinogenesis bioassays, and tumor pathology. Continuing education courses on cancer drug development and other subjects with the Saturday NTP session, emphasizing tumor pathology, rounds out the Symposium on Cancer.

U.S. Government Employees Invited to Attend Tuesday Sessions (Free Session, Advance Registration Required by June 1)

The scientific sessions on Tuesday, June 23, have been designed in response to requests from the Federal regulatory community. “Alternative Mouse Models for Carcinogenicity Assessment” (Tuesday morning) and “Background Disease in Animal Models of Toxicity: Relevance and Interpretation in Risk Assessment” (Tuesday afternoon) will be open at no cost to U.S. government employees as well as those registered as a full meeting attendee.



Marriott Wardman Park Hotel

Continuing Education

NTP Satellite Symposium— Saturday, June 20

(9:00 AM–4:30 PM)

Free Event; registration required

Tumor Pathology and INHAND Nomenclature

Chair: Susan A. Elmore, MS, DVM, DACVP, National Institute of Environmental Health Sciences, Research Triangle Park, NC

Continuing Education Courses— Sunday, June 21, 2009

Continuing Education Course Chair: Brian R. Berridge, DVM, PhD, DACVP, GlaxoSmithKline, Research Triangle Park, NC

There will be four half-day CE sessions in 2009, two concurrent morning courses and two concurrent afternoon courses.

Additional fees required

Sunday, June 21—AM Concurrent Sessions

CE 1—Cancer Therapeutics, Development Strategies in the Era of Targeted Therapies

CE 2—Drug-Induced Hematotoxicity—What’s New?

Sunday, June 21—PM Concurrent Sessions

CE 3—Unintended Mechanism-Based Adverse Events Associated with Cancer Chemotherapy

CE 4—Drug Development for Pediatric Populations

Continuing Education Credits

AAVSB RACE Provider #56

STP is an approved provider for AAVSB RACE continuing education credits as in past years. The continuing education courses during the Annual Meeting are expected to meet delivery in continuing education credit in the medical/surgical category in jurisdictions that recognize AAVSB RACE approval. Four credits will be given for CE1, CE2, CE 3, and CE 4. Participants should be aware that some boards have limitations on the number of hours accepted in certain categories and/or restriction on certain methods of delivery. Twenty hours of classroom delivery credit is expected to be given for attendance at the scientific sessions. Certificates of attendance will be provided at the conclusion of each course and on Thursday for the scientific sessions.

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Exhibit Space Available

The Exhibitor Showcase at the 2009 STP Annual Meeting offers an unmatched opportunity for vendors to reach a targeted audience. More than 600 scientists and industry professionals come together to exchange ideas and present groundbreaking research findings in toxicologic pathology. The limited number of available booths guarantees that exhibitors will not get lost in a crowd of competitors.

To enhance the impact of the exhibits, the scientific poster sessions will be held in the exhibit hall, along with the refreshment breaks. There will also be an internet café in the exhibit hall where attendees can check e-mail during exhibit hours.

The Society values the support of exhibitors and believes the relationship between exhibiting companies and the STP membership is a mutually beneficial one. STP provides a wide array of benefits and services to exhibiting companies including two complimentary full conference registrations, company listing and exhibit location published in the Society's Annual Meeting Program, four complimentary category listings, highly visible signage acknowledging all exhibitors, and more!

Please visit www.toxpath.org and click on "Annual Symposium" to view the on-line Exhibitor Information.

Questions? Please contact Terra Thomas, Meeting and Exhibit Planner, 703-438-7508.

Below are the current exhibitor hours

Exhibit Installation Dates

Saturday, June 20 1:00 PM–4:00 PM
 Sunday, June 21 8:00 AM–3:00 PM
 all exhibits must be set up by 3:00 PM

Exhibit Hall hours

Sunday, June 21 5:30 PM–7:00 PM
 Monday, June 22 7:00 AM–11:00 AM
 12:00 PM–4:30 PM
 Tuesday, June 23 7:00 AM–4:00 PM
 Wednesday, June 24 7:00 AM–12:30 PM

Internet Café

Be sure to take advantage of the computers in STP's exhibit hall! The Internet Café will be available during Exhibit Hall hours so that you can check e-mail.

Meeting Events

Exhibits Opening

The Exhibit Hall will open on Sunday evening, June 21 from 5:30 PM–7:00 PM.

Monday Evening Sponsored Reception

6:30 PM–10:30 PM

Reception Open to All Meeting Attendees and Guests

Student Outing

You are cordially invited to the Society of Toxicologic Pathology Student/Trainee Outing at the National Zoo on Tuesday afternoon, June 23, 2009.

This is a chance to meet fellow students, and interact with scientists representing all facets of the Society as you discuss your future and the various career paths available to you. The STP will be designating members to act as mentors for each student who attends, so this will be a great opportunity for one-on-one discussions, as well as for networking with your STP colleagues. Lunch will be provided. This function has been the highlight of past meeting for many students.

Details will be e-mailed to student registrants as they are finalized. Registration by May 20th will help to ensure early contact with your mentor(s), however we will try to accommodate all students/trainees interested in attending.

President's Reception

The President's Gala Reception will be held on Wednesday evening, June 24. One ticket to this event is provided to Member, Non-Member, Exhibitor, and Student registrants as well as registered Spouse/Guests. Additional tickets can be purchased on-site. Attire will be casual.

Town Hall Meeting

The Town Hall meeting will be held from 5:30 PM–6:30 PM Monday, June 22. The topic for this year's facilitated discussion will be "International Recognition of Qualified Toxicologic Pathologists." This forum will consider a **draft proposal** for one such system, which has been prepared by the International Federation of Societies of Toxicologic Pathology (IFSTP) based on negotiations among various toxicologic pathology societies over the last three years.

Awards Ceremony/Annual Business Meeting

The Awards Ceremony will take place on Wednesday evening, June 24. Student award winners and outgoing Committee chairs will be recognized at this time. The Annual Business Meeting will be held immediately following the Awards Ceremony.

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Registration Desk Hours

Friday, June 19.....	4:00 PM–6:00 PM
Saturday, June 20.....	8:00 AM–11:00 AM, 3:00 PM–6:00 PM
Sunday, June 21.....	7:00 AM–6:00 PM
Monday, June 22.....	7:00 AM–5:30 PM
Tuesday, June 23.....	7:30 AM–5:30 PM
Wednesday, June 24.....	7:30 AM–5:30 PM
Thursday, June 25.....	7:30 AM–12:00 NOON

Registration Materials

Badges, event tickets (and ribbons if appropriate) will not be mailed this year. All registered attendees may pick up their badges and other meeting materials at the registration desk (see registration hours above).

New This Year!

Download Abstracts, Attendee List from STP Web Site

In an effort to become more environmentally conscious and also allow STP to redirect funds to enhance annual meeting programs, the full *Program*, and *Attendee List* will not be printed this year in the on-site *Program* booklet, but will be available on the STP Web site prior to the meeting. A schedule of events including exhibitor information and sponsor acknowledgements will be available on-site in a smaller booklet format. Abstracts will continue to be published in the Symposium Issue of the journal each January. We also encourage you to bring last year's meeting bag to the meeting this year, as bags will not be provided at registration. Continuing Education books and CD ROMs (CE 1 through 4) will be printed and available in each designate course room.

Hotel Information

MARRIOTT WARDMAN PARK HOTEL

STP has reserved a limited block of discounted rooms at the Marriott Wardman Park Hotel. **It is important to make your reservations as soon as possible to ensure availability.**

The Marriott Wardman Park situated on sixteen treed acres in the Woodley Park area of Washington, D.C. The hotel is adjacent to the Woodley Park-Zoo/Adams Morgan Metrorail stop. The Marriott is within walking distance of the National Zoo and also other popular landmarks. Most popular sites of interest in the U.S. Capitol are just a few Metro stops away. Numerous dining options are within two blocks of the hotel, including several within the recently renovated hotel.

Internet Access

High speed Internet access is available for \$9.95 per day, which can be accessed in the lobby and guest rooms. An Internet Café will also be provided in the Exhibit Hall during exhibit hours.

Marriott Wardman Park Hotel

2660 Woodley Road, NW
Washington, District of Columbia 20008

Phone: 202-328-2000

Fax: 202-234-0015

On-line Hotel Reservations

<http://cwp.marriott.com/wasdt/stp/>

To receive STP rates be sure to mention that you are with the Society of Toxicologic Pathology Meeting or use the on-line STP link.

Government employees must call the hotel to request the government rate for the STP meeting.

Wardman Park rates: The daily total is \$249 for a single room. Hotel's room rates are subject to additional state and local taxes (currently 14.5%) in effect at the time of check-in.

Single:	\$249
Double:	\$269
Triple:	\$289
Quad:	\$309
Tower Rooms:	\$269
Additional Person:	\$30

PLEASE VISIT THE STP WEB SITE
For up-to-date hotel information at
<http://www.toxpath.org/am2009/hotel.asp>.

About Washington, D.C.

Washington, D.C. is located on the north bank of the Potomac River and is bordered by the states of Virginia and Maryland. As the seat of the U.S. government, it is the home of the President, senators, U.S. representatives, and ambassadors and representatives from nearly every country in the world. It is an intriguing city and also a beautiful one with abundant open spaces and parks and an absence of high rises in the vicinity of the National Mall due to its building height restrictions. Be sure to plan time before or after the meeting to experience the many treasures Washington, D.C. has to offer. Most of the sites below are easily accessible via Metrorail. The Woodley Park-Zoo/Adams Morgan stop is right outside the hotel on Connecticut Avenue (escalator, elevator, and stair entrances).

You are encouraged to plan time before or after the meeting to explore this fascinating and beautiful city. Washington, D.C. offers a tremendous variety of sights and activities for attendees and families and most are just a few subway stops from the Wardman Park hotel via Metro.

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The National Zoo (no fee), which is the home of 2,000 animals of 400 different species, is less than a half mile from the hotel. Its best known residents are the giant pandas, Tian Tian, Mei Xiang, and their cub, Tai Shan.

The Smithsonian Institution (no fee) (www.si.edu), includes The Air and Space Museum, National Gallery of Art, National Portrait Gallery, Natural History, American History, American Indian Museum, and African Art Museum and 12 other museums. Visit www.si.edu for more details. Free highlights tours are offered at most Smithsonian museums.



The White House

The International Spy Museum (fee) is the only public museum in the United States solely dedicated to the tradecraft, history, and contemporary role of espionage. Artifacts of international espionage—from a 1777 letter by George Washington authorizing a New York spy network to a 1980's coat with a camera concealed in a button—bring to life the people and techniques behind some of the most influential espionage actions in world history.

Narrated tours are an ideal way to learn about the history and architecture and visit the many monuments and memorials in the city. Most offer the option to visit sites as long as you would like, then board another tour bus to the next site. Links to tour operators are posted on the STP Web site and information is also available at the concierge desk at the Wardman Park Marriott.

Another popular way to see Washington, D.C. is by boat. Several cruise operators offer afternoon and evening tours on the Potomac River. These are also posted on the Web site.

Popular sites just outside the city in Virginia, are Arlington National Cemetery, Mount Vernon, George Washington's home, and a number of wineries that are located a 60- to 90-minute drive from the city.

For more information about Washington, D.C., visit: www.washington.org

Washington, D.C. Activities

Destination D.C.

The National Zoo (<http://nationalzoo.si.edu/>)

Washington Nationals Baseball

The **Washington Nationals** play the Boston Red Sox on Tuesday, June 23, during the STP Annual Meeting!

National Monuments and Memorials

- Capitol Building
- Jefferson Memorial
- Korean War Memorial
- Library of Congress
- Lincoln Memorial
- Washington Monument
- The White House
- World War II Memorial
- Vietnam Memorial

Museums (Smithsonian Web site: www.si.edu)

- Air and Space Museum
- American History Museum
- American Indian Museum
- Holocaust Museum
- International Spy Museum
- National Museum of African History and Culture
- National Museum of Crime and Punishment
- Newseum
- Postal Museum

Art Galleries

- African Art Museum
- Hirshhorn
- Freer Gallery
- National Gallery of Art
- National Portrait Gallery
- National Sculpture Garden
- Phillips Collection
- Sackler Gallery

In nearby Virginia

- Arlington National Cemetery
- Mount Vernon—George Washington's Home
- Udvar-Hazy Air and Space Museum (at Dulles Airport)
- Wineries

Tours

- Bike and Roll Washington D.C.
- City Segway Tours
- Historic Tours of America
- Spirit Cruises—Washington D.C.
- Tourmobile Sightseeing
- Washington Photo Safari

Web sites about Washington, D.C.

- [Smithsonian](http://www.si.edu)
- [Destination D.C.](http://www.destinationdc.com)
- [District of Columbia](http://www.districtofcolumbia.gov)

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Temperature/Attire

The average June temperature in Washington, D.C., is 84° F (29° C). Casual, comfortable attire is appropriate. Please bring sweater or light jacket for the air-conditioned meeting rooms.

Taxes & Tipping

The District of Columbia has a statewide general sales tax rate of 5.75%. A 10% tax rate applies for restaurants and take out. A 15–20% tip is customary in restaurants if not already included in the bill.

Time Zone

Washington, D.C., is on Eastern Daylight Savings Time in the summer.



Washington, D.C., Tidal Basin, view of the Jefferson Memorial

Travel Information

Non U.S. Citizens

Please visit <http://travel.state.gov> for current information about requesting documentation for travel to the U.S. Citizens of some countries will require a Visa.

New on-line authorization requirement for Visa Waiver Program Countries

Beginning January 12, 2009, all nationals and citizens of Visa Waiver Program (VWP) countries will be required by law to obtain a travel authorization prior to initiating travel to the United States under the VWP. This authorization may be obtained online through the Electronic System for Travel Authorization (ESTA™), a free Internet application administered by the Department of Homeland Security (DHS) through a U.S. government Web site.

DHS does not charge VWP travelers a fee for completion of an ESTA™ application. Eligible visitors seeking to travel to the United States under the VWP may apply for travel authorization via the ESTA™ Web site at <https://esta.cbp.dhs.gov>.

Air, Car, Ground Transportation

AIRPORTS

Ronald Reagan Washington National (DCA)

9 miles from Marriott Wardman Park

- The hotel does not provide shuttle service.
- Subway service, fee: \$1.35–\$2.55 USD (one way)
- Estimated taxi fare: \$18 USD (one way)

SuperShuttle at Reagan Airport

Door-to-door service is available at Reagan Airport. Shuttles operate on a shared ride-on demand basis. For information, call 1-800-BLUEVAN or go to www.supershuttle.com.

Upon arrival proceed to the outside curb and contact the SuperShuttle representative. After hours, call 1-800-258-3826 and press 1 for dispatch or 2 for reservations.

Metrorail from Reagan Airport

The Washington, D.C. Metrorail system has an elevated Metrorail station connected to the concourse level of terminals B and C at Reagan National Airport. Metrorail fare cards may be purchased at machines located at all entrances to the Airport Metrorail station. The station is also fully accessible via elevators.

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How to access the Metrorail station from the Terminals:

Terminal B and C: Use either of two enclosed pedestrian bridges on the concourse level which connect directly to the station.

Terminal A: Exit the terminal to the streetside curb, and board any "Airport Shuttle" bus. At the stops for Parking Garages B and C (bus shelter #3 and bus shelter #5) you may access an enclosed bridge which connects to the Metrorail station.

How to access the Terminals from the Metrorail station:

Terminal C: Go to the north end of the train platform and exit the station. A pedestrian bridge connects directly to the Terminal's concourse level.

Terminal B: Go to the south end of the train platform and exit the station. A pedestrian bridge connects directly to the Terminal's concourse level.

Terminal A: Go to either end of the train platform and exit the station towards the parking garage. Take elevator or stairway down to street level and board any "Airport Shuttle" bus.

Elevator Access: The elevator is located at the center of the platform. There is a sloped sidewalk at ground level which connects to both pedestrian bridges.

For more Metrorail information, call 202-637-7000; TDD 202-638-3780. [Or click](#) here to visit the Transit Authority's Web site.

OTHER AIRPORTS

Washington, D.C./Dulles (IAD)

25 miles from Marriott Wardman Park

- The hotel does not provide shuttle service
- There is no Metro stop at Dulles
- Estimated taxi fare: \$55 USD (one way)

SuperShuttle at Dulles Airport:

Door-to-door service is available at Dulles Airport. Shuttles operate on a shared ride-on demand basis. For information, call 1-800-BLUEVAN or go to www.supershuttle.com.

Upon arrival proceed to the outside curb and contact the SuperShuttle representative. After hours, call 1-800-258-3826 and press 1 for dispatch or 2 for reservations.

Driving Directions from Dulles Airport:

Follow the signs to Interstate 66 east to Washington. Follow I-66 to the Theodore Roosevelt Bridge (US Route 50). Take the Constitution Ave. exit off of the bridge. Continue on Constitution for 6 blocks and make a left turn onto 17th Street. This will change to Connecticut Ave. Continue on Connecticut Ave. for

1 mile. Cross over the William Taft Bridge. Make a left turn at the 3rd light after the bridge onto Woodley Ave. The hotel entrance is on the left.

Baltimore/Washington International Thurgood Marshall Airport (BWI)

33 miles from Marriott Wardman Park

- The hotel does not provide shuttle service.
- Alternate Transportation: Amtrak to Union Station–Metro to hotel
- Estimated taxi fare: \$60 USD (one way)

Driving Directions:

Take I-95 South to I-495 West. Take Exit 33, Connecticut Ave. Southbound. Continue on Connecticut Ave. for about 6.5 miles. Turn right onto Woodley Road. The hotel entrance is on the left.

Ground Transportation

(Distances listed are from the Headquarters hotel)

Bus Station:

Union Station (5.0 mi)

Train Station:

Union Station (8.0 mi)

Metro (subway system):

The Woodley Park Metro stop (Red line) is adjacent to the hotel property.

Metro map and fare and accessibility information:
["http://www.wmata.com/rail/maps/map.cfm"](http://www.wmata.com/rail/maps/map.cfm)

Metrorail fares:

Metrorail passes may be purchased from vending machines (small bills) in the metrorail stations, or on-line for U.S. residents. A one-day unlimited pass is available.

Regular fare (In effect on weekdays from 5:00 AM to 9:30 AM., 3:00 PM–7:00 PM.)

- \$1.65 minimum
- \$4.50 maximum

Reduced Fare (All other times)

- \$1.35 minimum
- \$1.85 mid-range
- \$2.35 maximum

CAR RENTAL

Major car rental companies are available at all three area airports.

Marriott Wardman Park Parking Fees are:

- On-site parking, fee: \$17 USD hourly, \$31.36 USD daily
- Valet parking, fee: \$36.96 USD daily

Program

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Saturday, June 20

NTP Satellite Symposium

9:00 AM–4:30 PM

Free Event; registration required

Tumor Pathology and INHAND Nomenclature

*Chair: Susan A. Elmore, MS, DVM, DACVP,
National Institute of Environmental Health Sciences,
Research Triangle Park, NC*

The objectives of this symposium are to provide continuing education on interpreting pathology slides, to generate lively and productive conversation, and to have a good time! The theme for the symposium this year is tumor pathology, corresponding with the STP meeting theme of cancer. We will also include some examples and discussion of INHAND nomenclature as it pertains to neoplastic lesions. During each talk, the speakers will project a series of lesion images on one screen with a choice of diagnoses/answers on a separate screen. Keypads (100) will be distributed at the door on a first come/first serve basis. The members of the audience with wireless keypads will then vote anonymously and the voting results will be displayed on the screen. After each voting session, time is allowed for discussion. The images presented for voting and discussion may represent lesions that are rare and interesting, present a diagnostic challenge, are controversial or have nomenclature dilemmas.

Sunday, June 21, 2009

Continuing Education Courses

*Chair: Brian R. Berridge, DVM, PhD, DACVP,
GlaxoSmithKline, Research Triangle Park, NC*

CE 1 (Sunday AM) 8:00 AM–12:05 PM

Cancer Therapeutics, Development Strategies in the Era of Targeted Therapies

*Co-Chairs: Page R. Bouchard, DVM, DACVP, Archemix Corp
Cambridge, MA, and David Epstein, PhD, OSI Therapeutics,
Melville, NY*

8:00 AM–8:05 AM

Introduction

8:05 AM–8:35 AM

Emerging Concepts in Development and Therapeutic Suppression of Cancer Cell Metastasis

*Andreas Eger, Professor of Medical and
Pharmaceutical Biotechnology University
of Applied Science, Krems, Austria*

8:35 AM–9:05 AM

Regulatory Considerations in Development of Cancer Therapeutics

*John Leighton, PhD, DABT, U.S. FDA,
Silver Spring, MD*

9:05 AM–9:35 AM

Safety Assessment Considerations and Strategies for Targeted Small Molecule Cancer Therapeutics

*Richard Westhouse, DVM, PhD, DACVP,
Bristol Myers Squibb, Princeton, NJ*

9:35 AM–10:05 AM

Break (30 minutes)

10:05 AM–10:35 AM

EGFr antagonists, What Have We Learned and Where Do We Go Now

*Jens Oliver Funk, MD, EMD Serono, Inc.,
Billerica, MA*

10:35 AM–11:05 AM

Anti-Angiogenesis, Avastin, and Beyond

*Donald McDonald, MD, PhD, University of
California-San Francisco,
San Francisco, CA*

11:05 AM–11:35 AM

Immunomodulation and Cancer Therapy, It's Been a Long Road

*Jeffrey Schlom, PhD, Chief, National
Cancer Institute, Bethesda, MD*

11:35 AM–12:05 PM

Inhibitors of the Ubiquitin Proteasome Pathway, Deconvolution of the Biology and Toxicology of a Novel and Pleiotropic Pathway

*Lee Silverman DVM, PhD, DACVP,
Millenium: The Takeda Oncology Company*

CE 2 (Sunday AM) 8:00 AM–12:00 NOON

Drug-Induced Hematotoxicity—What's New?

*Co-Chairs: Nancy E. Everds, DVM, DACVP, Amgen Inc.,
Seattle, WA, and Frances A. S. Clemo, DVM, PhD, DACVP,
Baxter Inc.*

Hematotoxicity is a common dose-limiting side effect of drugs in preclinical and clinical studies, especially for cancer therapeutics and other drugs that affect cell proliferation. Currently, there are several marketed drugs that are aimed to ameliorate cytopenias in cancer patients through stimulation of hematopoiesis.

This course will cover a range of topics, including fundamentals of hematotoxicity, specialized research tools available to investigate hematotoxicity, mechanisms of management of anemia of inflammation and malignancy, and mechanisms of idiosyncratic hematologic toxicity.

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8:00 AM–8:05 AM	Introduction
8:05 AM–8:55 AM	General Mechanisms of Hematologic Toxicities in Man and Animals <i>Jack C. Bloom, DVM, PhD, Eli Lilly & Company, Indianapolis, IN</i>
8:55 AM–9:45 AM	Specialized Tools Used to Investigate Hematologic Toxicities <i>Ralph E. Parchment, PhD, National Cancer Institute, Frederick, MD</i>
9:45 AM–10:15 AM	Break (30 minutes)
10:15 AM–11:05 AM	Anemia of Inflammation and Malignancy <i>John W. Adamson, MD, VA Medical Center, La Jolla Village, San Diego</i>
11:05 AM–11:55 AM	Mechanisms of Idiosyncratic Hematological Toxicity <i>Jack Uetrecht, MD, PhD, University of Toronto, Toronto, Canada</i>

Sunday—PM Concurrent Sessions

CE 3 (Sunday PM) 1:30 PM–5:05 PM

Unintended Mechanism-Based Adverse Events Associated with Cancer Chemotherapy

Chair: Carl L. Alden, DVM, DACVP, Millennium: The Takeda Oncology Company, Cambridge, MA

The plurality of drugs in development now in the U.S. are targeted in the oncology therapeutic area. With the emerging improvements in cancer therapy an increasing awareness of the toxicities associated with chemotherapy can be anticipated. Examples include long term adverse events such as cognitive function impairment (chemo brain) and congestive heart failure. Equally critical, mechanism based adverse effects may limit the opportunity of the patient to benefit from therapy, such as is the case with chemotherapy induced peripheral neuropathy and drug induced hepatotoxicity. While the oncologist has excellent awareness and ability to manage the traditional cytotoxic chemotherapeutic effects on the gastrointestinal tract and bone marrow, future novel therapeutic targets will hopefully reduce the treatment residual of current chemotherapeutics. The purpose of the course will be to provide an overview of chemotherapeutic drug effects in the brain, peripheral nervous system, liver, and cardiovascular system.

1:30 PM–1:35 PM	Introduction
1:35 PM–2:15 PM	Effects of Cranial Irradiation on Neurogenesis and Cognition in Mice <i>Jacob Raber, PhD, Oregon Health and Science University, Portland, OR</i>
2:15 PM–3:05 PM	Chemotherapeutic Peripheral Neuropathy <i>Lee Silverman, DVM, PhD, Millennium: The Takeda Oncology Company, Cambridge, MA</i>
3:05 PM–3:35 PM	Break (30 minutes)
3:35 PM–4:15 PM	Heart Failure and Chemotherapy <i>Noel Dybdal DVM, PhD, Genentech Inc., South San Francisco, CA</i>
4:15 PM–5:05 PM	Liver Toxicity in Cancer Patients <i>John Senior, MD, U.S. FDA, Silver Spring, MD</i>

CE 4 (Sunday PM) 1:30 PM–5:05 PM

Drug Development for Pediatric Populations

Co-Chairs: Ian Pyrah, BVM&S, PhD, MRCVS, FRCPath, Amgen Inc., Thousand Oaks, CA, and Kevin S. McDorman, DVM, PhD, DACVP, Charles River Laboratories, Reno, NV

Availability of safe and efficacious drugs for children is a current hot topic in society and reflected by increased regulatory demands. The development of drugs for children poses a number of challenges that must be understood and overcome to obtain adequate information in drug safety and efficacy and product labeling. Appropriate preclinical toxicology studies are a component of this package. However, there is limited experience and precedence in the design and interpretation of such toxicity studies in juvenile animals and other systems. This course will provide updated information on regulations and current thinking on preclinical development of drugs for children, providing examples of successful pediatric drug development, as well as examples where concerns for the use of certain classes of drugs exist in the marketplace.

1:30 PM–1:35 PM	Introduction
1:35 PM–2:15 PM	Current Issues with Pediatric Drug Use <i>Jean Temeck, MD, U.S. FDA, Silver Spring, MD</i>
2:15 PM–3:05 PM	Regulatory History and Hurdles of Pediatric Drug Development <i>Karen Davis-Bruno, PhD, U.S. FDA, Silver Spring, MD</i>
3:05 PM–3:35 PM	Break (30 minutes)

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3:35 PM–4:15 PM

Study Design Concepts in Juvenile Toxicity Studies

Shaun Maguire, GlaxoSmithKline, Hertfordshire, UK

4:15 PM–5:05 PM

Experience of Juvenile Toxicity Studies from a Pathologist's Perspective

Jan Klapwijk, GlaxoSmithKline, Hertfordshire, UK

Career Development Course

(Free Event, registration required)

Toxicologic Pathology in a Multicultural World

Sunday, June 21, 2009, 8:00 AM–12:00 NOON

Facilitators: *A. Eric Schultze, Eli Lilly & Company, Indianapolis, IN, and Brian R. Berridge, DVM, PhD, DACVP, GlaxoSmithKline, Research Triangle Park, NC*

8:00 AM–8:10 AM

Introduction and Agenda

A. Eric Schultze, Eli Lilly & Company, Indianapolis, IN, and Brian R. Berridge, DVM, PhD, DACVP, GlaxoSmithKline, Research Triangle Park, NC

8:10 AM– 9:50 AM

China:

Vincent P. Meador, DVM, PhD, DAVCP, Amgen, Inc., Seattle, WA, and Helen Han Hsu, DVM, PhD, DAVCP, J&J, Raritan, NJ

9:50 AM–10:20 AM

Break

10:20 AM–12:00 NOON

India:

Kevin Donnelly, DVM, PhD, Covance, Greenfield, IN, and V.J. Reddy, Eli Lilly & Co, Indianapolis, IN

The workshop, organized by the Career Outreach and Continuing Education Committees, will provide interactive sessions covering the challenges of doing business and communicating effectively in two geographical areas of developing business growth; China and India. Presenters include natives of these regions and non-natives with experience interacting in a professional capacity within these cultures. Cultural differences and business styles will be discussed. Differences in the training of professional colleagues, difficulties in scientific translation of reports and messages, and baseline communication skills will be reported. Workshop presenters will offer ways to enhance the interactions of pathologists of different cultures and describe how to prepare pathologists for effective communication in a global world. This interactive workshop will feature speaker and participant discussions of challenging scenarios in Toxicologic Pathology and real life business case examples will be emphasized.

The Program is sponsored by an educational donation provided by Amgen.

Career Development Lunchtime Series

(Free, registration required)

Career Paths Taken Are Not Always Straight: A Panel Discussion

Monday, June 22, 2009, 12:30 PM–1:30 PM

Please join us for an informational lunchtime session to hear the experiences of several STP members who have taken different career paths. Audience participation is essential! Lunches will be provided to the first 35 students who register. Presentations and discussions will be of interest to attendees at all career levels.

Monday, June 22

Scientific Sessions

Co-Chairs: *Jerrold M. Ward, DVM, PhD, DACVP, Global VetPathology, Montgomery Village, MD, and Kathleen A. Funk, DVM, PhD, DACVP, EPL, Inc, Sterling, VA*

Monday Morning

8:00 AM–8:10 AM

Welcome: STP President

Ricardo Ochoa, DVM, PhD, DACVP, Pre-Clinical Safety Inc., Niantic, CT, President, STP

Session 1

8:10 AM–12:05 PM

Human Cancer

Co-Chairs: *Jerrold M. Ward, DVM, PhD, DACVP, Global VetPathology, Montgomery Village, MD, and Samuel M. Cohen, MD, PhD, University of Nebraska Medical Center, Omaha, NE*

The first session will review various aspects of the etiology, diagnosis, pathology, treatment and prevention of human cancers.

8:10 AM–8:15 AM

Introduction to Human Cancer

Jerrold M. Ward, DVM, PhD, DACVP, Global VetPathology, Montgomery Village, MD, and Samuel M. Cohen, MD, PhD, University of Nebraska Medical Center, Omaha, NE

8:15 AM–9:10 AM

Keynote: National Cancer Institute's Cancer Therapy Evaluation Program: Translating Science into Useful Treatments

Jeffrey S. Abrams, MD, NIH, National Cancer Institute, Bethesda, MD

Program

Symposium: Cancer

June 21–25, 2009

9:10 AM–10:00 AM

The Molecular Pathology of Colorectal Cancer

Stanley R. Hamilton, MD, University of Texas, MD Anderson Cancer Center, Houston, TX

10:00AM–10:45 AM

Break

10:45 AM–11:30 AM

Estrogen and Xenoestrogens in Breast Cancer

Jose Russo, MD, Fox Chase Cancer Center, Philadelphia, PA

11:30 AM–12:15 AM

The Impact of High Throughput Pathology: Defining Disease by Protein Expression

Stephen M. Hewitt, MD, PhD, National Cancer Institute, Bethesda, MD

Monday Afternoon

Session 2

1:30 PM–5:05 PM

Cancer Biology

Co-Chairs: Robert C. Sills, DVM, PhD, DACVP, NIEHS, and Mark R. Simpson, DVM, PhD, DACVP, National Cancer Institute

The session will focus on the use of mouse models and *in vitro* systems to understand cellular and molecular mechanisms of human cancer and develop therapeutics strategies.

1:30 PM–2:15 PM

Engineered Cancer Models in Basic and Translational Discovery

Terry Van Dyke, PhD, National Cancer Institute at Frederick, Frederick, MD

2:15 PM–2:50 PM

Translational Approaches to Tumor Metastasis

Patricia S. Steeg, PhD, National Cancer Institute, Bethesda, MD

2:50 PM–3:20 PM

Break

3:20 PM–3:55 PM

Exploiting Genomic Analyses for Pre-Clinical Testing in Mouse Models

Jeffrey E. Green, MD, National Institute of Health, Bethesda, MD

3:55 PM–4:30 PM

Mouse Models of Astrocytoma for Discovery and Translation

Karlyne M. Reilly, PhD, National Cancer Institute at Frederick, Frederick, MD

4:30 PM–5:05 PM

Mouse Models for Cancer Stem Cell Research

Alexander Nitikin, MD, PhD, Cornell University, Ithaca, NY

Tuesday, June 23

Tuesday Morning

Session 3

Free to U.S. government employees, Registration Required.

8:00 AM–12:05 PM

Alternative Mouse Models for Carcinogenicity Assessment

Co-Chairs: Daniel G. Morton, DVM, PhD, DACVP, Pfizer, Groton, CT, and James A. Swenberg, DVM, PhD, DACVP, University of North Carolina, Chapel Hill, NC

The history, rationale for use and selection, design, and interpretation of p53+/-, rasH2, and other alternative mouse models used to support carcinogenicity assessment of compounds for registration will be discussed. Speakers from government and industry will review current and promising future models, the performance of the models in validation studies and studies submitted to support new pharmaceutical products, the use of positive control chemicals, and the need for historical control data. The session will conclude with a roundtable discussion of regulatory acceptance and other questions provided by the audience.

8:00 AM–8:05 AM

Introduction

8:05 AM–8:40 AM

An Industry Perspective on the Utility of Short-term Carcinogenicity Testing in Transgenic Mice in Pharmaceutical Development

Richard D. Storer, PhD, Merck Research Laboratories, West Point, PA

8:40 AM–9:05 AM

Alternative Mouse Models for Carcinogenicity Assessment: Industry Use and Issues with Pathology Interpretation

Gerald G. Long, DVM, PhD, DACVP, Eli Lilly & Company, Indianapolis, IN

9:05 AM–9:50 AM

European Perspectives on Alternative Mouse Carcinogenicity Models

Bernard Leblanc DVM, PhD, DACVP, DECVP, Pfizer, Amboise Cedex, France

9:50 AM–10:20 AM

Break

10:20 AM–10:30 AM

The Ito Medium Term Carcinogenicity Model

Hiroyuki Tsuda, MD, PhD., Nagoya City University Medical School, Nagoya, Japan

Program

Symposium: Cancer

10:30 AM–11:05 AM

Genetically Modified Mouse Models for Hazard Identification and Risk Assessment in Toxicology and Carcinogenesis: Strengths and Weaknesses

John E. French, PhD., National Institute of Environmental Health Sciences, Research Triangle Park, NC

11:05 AM–12:00 NOON

Panel Discussion: Alternative Models in Carcinogenicity Assessment

John E. French, PhD, National Institute of Environmental Health Sciences; David Jacobson-Kram, PhD, DABT, U.S. FDA; Bernard Leblanc DVM, PhD, DACVP, DECVP, Pfizer; Gerald G. Long, DVM, PhD, DACVP, Eli Lilly & Company; Richard D. Storer, PhD, Merck Research Laboratories; and Hiroyuki Tsuda, MD, PhD, Nagoya City University Medical School

Tuesday Afternoon

Session 4

Free to U.S. government employees, Registration Required.

1:00 PM–5:00 PM

Background Disease in Animal Models of Toxicity: Relevance and Interpretation in Risk Assessment

Co-Chairs: Diane Creasy, PhD, FRCPATH, Huntingdon Life Sciences East Millstone, NJ, and Brian R. Berridge, DVM, PhD, DACVP, GlaxoSmithKline, Research Triangle Park, NC

Preclinical animal models are generally considered to be a “clean” and consistent background of normal anatomy and physiology within which to evaluate the potential toxicity of putative therapeutic agents. But, spontaneous background findings both physiological and pathological manifest in these models and can be quite variable in character, incidence and severity within and between studies. Although an experienced toxicologic pathologist is accustomed to identifying and differentiating these changes from test article-related effects, the distinction is occasionally unclear due to random distribution across dose groups or overlap with those associated with test article treatment. This presentation will describe some of the more common non-proliferative and proliferative background changes in rodent and non-rodent preclinical animal models. The presentation will also outline approaches used by the pathologist to build a weight of evidence for or against attributing

the morphologic or clinical pathologic change to administration of the test article. The aim is to provide the regulatory reviewer an understanding of these changes and their context in preclinical safety assessment.

1:00 PM–1:35 PM

Introduction

Diane Creasy, PhD, FRCPATH, Huntingdon Life Sciences, East Millstone, NJ

1:35 PM–2:15 PM

How “Normal” are Control Animals? Overview of Common Background Changes in Preclinical Studies/

Non-rodent

Lauren Tierney, DVM, PhD, GlaxoSmithKline, King of Prussia, PA

Rodent

Sarah L. Hale, DVM, DACVP, Covance, Vienna, VA

2:15 PM–3:00 PM

Break

3:00 PM–3:40 PM

Reproduction and Risk Assessment

Justin D. Vidal, DVM, PhD, DACVP, GlaxoSmithKline, King of Prussia, PA

3:40 PM–4:20 PM

The Histopathology/Clinical Pathology Conundrum

Vincent P. Meador, DVM, PhD, DACVP, Amgen Inc., Seattle, WA

4:20 PM–5:00 PM

Pieces of the Puzzle: Contextual Interpretation of *In Vivo* Data

John L. Vahle, DVM, PhD, DACVP, Eli Lilly & Company, Indianapolis, IN

Wednesday, June 24

Wednesday Morning

Session 5

8:00 AM–12:00 NOON

Biological Factors that Impact Assessment of Human Relevance of Animal Neoplasia

Co-Chairs: James A. Popp, DVM, PhD, DACVP, Strataxon, Lancaster, PA, and James E. Klaunig, PhD, University of Indiana, Indianapolis, IN

This session will examine several established mechanisms of carcinogenicity in rodents with application to human relevance. A variety of chemical and physical agents have the potential to produce adverse effects by causing heritable

Program

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changes to the genome. Mutagenesis is not the only mechanism underlying heritable alterations to the genome. Understanding of the epigenetic mechanisms including DNA methylation may play a key role in a variety of chemical-induced toxicities, including carcinogenesis. Induction of DNA damage as well as modulation of epigenetic pathways involved in the cancer process has been shown following oxidative stress by chemical and physical agents. Since the same pathways modified in rodents are also the target of oxidative stress in humans, the relevance for this mechanism is important in assessing human risk and relevance. The mechanisms of photocarcinogenesis potentiation and induction by chemical and physical agents will be addressed. Of recent concern is the possible risk of nanomaterials in the induction of photocarcinogenesis. The utilization of transgenic and humanized rodent models in understanding of human clinical response to anticancer drug treatment and genetic and environmental factors involved in the cancer etiology will also be addressed.

8:00 AM–8:10 AM	Introduction
8:10 AM–9:00 AM	Epigenetics in Carcinogenesis <i>Jay I. Goodman, PhD, Michigan State University, East Lansing, MI</i>
9:00 AM–9:50 AM	Oxidative Stress/Damage in Carcinogenesis <i>James E. Klaunig, PhD, Indiana University, Indianapolis, IN</i>
9:50 AM–10:20 AM	Break
10:20 AM–11:10 AM	Photocarcinogenesis <i>Paul C. Howard, PhD, FDA National Center for Toxicological Research, Jefferson, AR</i>
11:10 AM–12:00 NOON	Humanized Mice <i>Clifford R. Elcombe, CXR Biosciences, Ltd, Dundee, UK</i>

Wednesday Afternoon

Session 6

1:30 PM–5:20 PM

Global Regulatory Perspectives on Cancer Risk Assessment—Where Are We, Where Are We Heading?

Co-Chairs: Douglas Wolf, DVM, PhD, FIATP, ATS, U.S. EPA, Research Triangle Park, NC, and Terry Peters, DVM, U.S. FDA, CDER, Silver Spring, MD

Current approaches for using toxicologic pathology to assist in cancer risk assessment by global regulators include the use of Mode of Action and the Human Relevance Framework, when applicable. Attention will be paid to understanding cancer pathways and applying new technological approaches to future cancer risk assessment-based research.

1:30 PM–1:40 PM

Introduction

1:40 PM–2:20 PM

Application of Toxicologic Pathology to Inform Human Relevancy Framework and Mode of Action Analysis

Vicki Dellarco, U.S. EPA, Washington, D.C.

2:20 PM–3:00 PM

Cancer Risk Assessment Approaches at the FDA/CDER: Is the Era of the 2-Year Bioassay Drawing to a Close?

David Jacobson-Kram, PhD, DABT, U.S. FDA, Silver Springs, MD

3:00 PM–3:30 PM

Break

3:30 PM–4:10 PM

Cancer Risk Assessment for Pesticides

Mary Ko Manibusan, MPH, U.S. EPA, Washington, D.C.

4:10 PM–4:50 PM

The 2-Year Oncogenicity Study—Do We Still Need It?

Alan Boobis, PhD, Imperial College-London, Hammersmith Campus, London, UK

4:50 PM–5:20 PM

Panel Discussion—The Future for Cancer Risk Assessment

Ron Lorentzen, PhD, CFSAN Cancer Assessment Committee, College Park, MD; Alan Boobis, PhD, Imperial College London, Hammersmith Campus, London, UK; Mary Ko Manibusan, MPH, U.S. EPA, Washington, D.C.; David Jacobson-Kram, PhD, DABT, U.S. FDA, Silver Spring, MD; and Vicki Dellarco, U.S. EPA, Washington D.C.

Program

Symposium: Cancer

June 21-25, 2009

Thursday June, 25

Thursday Morning

Session 7

8:00 AM-11:55 AM

Pathology of Rodent Neoplasia

Co-Chairs: Robert R. Maronpot, DVM, MS, MPH, DACVP, DABT, Maronpot Consulting, LLC, Raleigh, NC, and David E. Malarkey, DVM, PhD, DACVP, NIEHS, Research Triangle Park, NC

This session presents current issues that pathologists and scientists are faced with in efforts to achieve accurate diagnoses and valid interpretations of rodent models of cancer. Cancer progresses through a multistep process with accumulation of molecular alterations often leading to malignant behavior and death. Many factors, including those that are genetic, environmental, and/or inflammatory, can contribute to carcinogenesis. This session focuses on the diagnosis and morphological features of early cancer development and differentiation with elaboration on possible mechanisms of cancer (chemically induced or mediated by inflammation) as well as interpreting rodent-specific neoplasia.

8:00 AM-8:05 AM

Introduction

8:05 AM-8:55 AM

Preneoplasia: Acquired or Predestined

Robert D. Cardiff, MD, PhD, UC Davis, Davis, CA

8:55 AM-9:30 AM

Useful Immunohistochemical Markers of Tumor Differentiation

Jon Todd Painter, DVM, PhD, DACVP, Integrated Laboratory Systems, Research Triangle Park, NC



United States Capitol Building

9:30 AM-10:00 AM

Break

10:00 AM-10:45 AM

Pathology of Treatment-Induced Gastrointestinal Cancer

Sundeep A. Chandra, DVM, PhD, GlaxoSmithKline, Research Triangle Park, NC

10:45 AM-11:15 AM

The Role of Inflammation in Murine Intestinal Cancer

Susan E. Erdman, DVM, MPH, DACLAM, Massachusetts Institute of Technology, Cambridge, MA

11:15 AM-11:55 AM

The Relevance of Rodent-Specific Tumors in Cancer Risk Assessment

Douglas C. Wolf, DVM, PhD, U.S. EPA, Research Triangle Park, NC



Washington Monument

Registration Information

Symposium: Cancer

June 21–25, 2009

Symposium Registration Fees

Member and Non-Member regular full meeting registration fees include the symposium proceedings, access to scientific sessions, Exhibit Hall, daily continental breakfast, morning and afternoon coffee breaks during the scientific sessions, and admission for one to the President's Gala Reception. Please note that STP has added a Tuesday afternoon session this year, which is open to registered attendees.

NTP Symposium

The Saturday NTP Satellite Symposium is free, but registration is required. Voting participation is available for 100 attendees. Voting machines are distributed to registered attendees at the start of the session on a first-come, first-serve basis.

Career Development Course

This interactive workshop will feature speaker and participant discussions of challenging scenarios in Toxicologic Pathology and real life business case examples will be emphasized. This course is free to all participants, but registration is required.

Continuing Education Courses Registration

A separate registration fee is charged to attend each of the Sunday Continuing Education course(s). Two concurrent courses will be offered in the morning and two in the afternoon.

Guest/Spouse Registration

The Guest/Spouse registration fee includes continental breakfast (Monday through Thursday) in the STP Guest Hospitality Suite at the Marriott Wardman Park Hotel, afternoon breaks, one admission to the President's Gala Reception Wednesday evening. There will also be a Monday half day tour guaranteed for guest/spouse who register for the meeting by March 1, 2009.

Student Registration

The Student Registration fee includes access to all sessions and exhibits, daily continental breakfast, admission for one to the Student Outing and the President's Gala Reception. A letter of verification from a department chairman must accompany student registrations. Any student registration received with no verification letter will be processed at the higher Non-Member fee. Copies of student identification cards are not acceptable. Please see Student Travel Award information on page 18.

Exhibitor Registration

Two full meeting complimentary registrations are provided to exhibiting companies with the purchase of each booth. The Exhibitor Registration fee (\$350) is for companies with more than two exhibitors. This reduced registration does not include admission to the scientific sessions, but does include continental breakfasts, breaks in the Exhibit Hall, and one admission to the Presidents Reception.

U.S. Government Employee Tuesday-Only Sessions Registration (Free)

Interested U.S. government employees may register to attend Tuesday morning and afternoon sessions listed below at no charge. Registration (indicating one or both sessions) is required by June 1, 2009.

- **Tuesday AM Scientific Session:**
Alternative Mouse Models for Carcinogenicity Assessment.
- **Tuesday PM Scientific Session:**
Background Disease in Animal Models of Toxicity: Relevance and Interpretation in Risk Assessment

Registration Instructions

Register On-Line

Alternatively, registrants paying by check or those not utilizing the Internet may submit their Registration Form by fax or mail.

Please Mail or Fax Registration Form to:

STP Headquarters Registration
P.O. Box 758960
Baltimore, MD 21275-8960

Or fax Registration Form to: 703-438-3113

Forms will be date-stamped as they arrive. This is your date of registration.

NOTE: To prevent double-billing, if you are registering by fax, DO NOT mail your original registration form. STP needs only one copy for processing. All mailed and faxed registration forms will be processed on-line by STP staff.

Cancellation Policy

If you must cancel your registration, all requests must be received in writing to STP Headquarters no later than May 10, 2009. The registration fee will be refunded less a \$25 processing fee. Refunds after May 10, 2009, will not be processed.



The Society of Toxicologic Pathology
28th Annual Meeting and Exhibition
 June 21–25, 2009 • Marriott Wardman Park Hotel, Washington DC
MEETING REGISTRATION FORM

To Register
 On-Line:
www.toxpath.org

Member ID: _____ First Name: _____ Last Name: _____
 Title: _____ Department: _____
 Affiliation/Agency/Institution: _____
 Address: _____
 City: _____ Prov/State: _____ Zip: _____ Country: _____
 Telephone: _____ Fax: _____ E-mail: _____

Do you require any Special Services? _____

CONTINUING EDUCATION COURSES SELECTION—Please check box(es) to indicate your selection(s)

- Saturday, June 20** 9:00 AM–4:30 PM **NTP Satellite Symposium:** Tumor Pathology and INHAND Nomenclature (*free to meeting registrants—Wireless keypads [100] will be distributed at the door to registrants on a first come/first serve basis.*)
- Sunday, June 21** 8:00 AM–12:00 NOON **CE1**—Cancer Therapeutics, Development Strategies in the Era of Targeted Therapies
 CE2—Drug-Induced Hematotoxicity—What’s New?
- Sunday, June 21** 1:30 PM–5:30 PM **CE3**—Mechanism-Based Adverse Events Associated with Cancer Chemotherapy
 CE4—Drug Development for Pediatric Populations

CAREER DEVELOPMENT SESSIONS—Free to meeting registrants

- Sunday, June 21** 8:00 AM–12:00 NOON Toxicologic Pathology in a Multicultural World
Monday, June 22 12:30 PM–1:30 PM Career Paths Taken Are Not Always Straight: A Panel Discussion

REGISTRATION—Please add fees for Meeting, Continuing Education Courses below

STP Member, Student, and Non-Member paid registration includes: Monday through Thursday scientific sessions (includes new Tuesday afternoon session), continental breakfasts and breaks Monday through Thursday, Exhibit Hall access, and one admission to the Wednesday evening President’s Reception. **Guest** registration includes: Guest Hospitality Suite access (and its Monday through Thursday continental breakfasts and afternoon breaks), one admission to the President’s Reception and a Monday half-day tour (for guests registered by March 1, 2009). **Exhibitor** \$350 registration includes: Exhibit Hall access, continental breakfasts and breaks held in the Exhibit Hall, and one admission to the President’s Reception.

Meeting Fees: Please check applicable box(es).	Until April 10th	Until May 20th	On-Site
<input type="checkbox"/> STP Member	\$500	\$550	\$585
<input type="checkbox"/> Student	\$115	\$135	\$170
<input type="checkbox"/> Non-Member, Government/Academic	\$585	\$650	\$685
<input type="checkbox"/> Non-Member, Industry	\$700	\$750	\$785
<input type="checkbox"/> Guest (Name):	\$160	\$180	\$220
<input type="checkbox"/> Exhibitor (Does not include Scientific Sessions)	\$350	\$350	\$350
<input type="checkbox"/> CE 1 <input type="checkbox"/> CE 2 <input type="checkbox"/> CE 3 <input type="checkbox"/> CE 4	\$150 each	\$175 each	\$200 each

CE Course Fees: For non-meeting registrants, please add \$100 to the cost of each CE course. (\$100 fee is waived for U.S. government employees)

REGISTRATION TOTAL (including Meeting, Guest, CE Courses):
 \$ _____ \$ _____ \$ _____

FREE TO U.S. GOVERNMENT EMPLOYEES—Tuesday morning and afternoon sessions

Interested U.S. Government employees may register to attend Tuesday morning and afternoon sessions at no charge, however registration (indicating one or both sessions) is required by June 1.

- Tuesday, June 23, AM** Session Alternative Mouse Models for Carcinogenicity Assessment
 Tuesday, June 23, PM Session Background Pathology in Animal Models of Toxicity: Relevance and Interpretation in Risk Assessment

METHOD OF PAYMENT

Check or Money Order # _____ Government Purchase Order # _____
 Credit Card American Express Master Card Visa Name on Card _____
 Credit Card # _____ Expiration Date _____/_____/_____

RETURN THIS FORM WITH PAYMENT TO:
Society of Toxicologic Pathology
 Meeting Registration
 P.O. Box 758960
 Baltimore, MD 21275-8960
Fax: (703) 438-3113
 Faxed forms are accepted only if using credit cards.
 U.S. GOVERNMENT PURCHASE ORDERS MAY BE FAXED OR MAILED WITH REGISTRATION FORM

REGISTER ON-LINE: www.toxpath.org
 All hard copy and fax registration information will be entered on-line by STP staff.
CANCELLATION/REFUND POLICY: All requests for cancellations and/or refunds must be received in writing at STP HQ by **May 10, 2009**. These refunds will be processed, less a \$25 processing fee. Refund requests received after May 10, 2009, will not be processed.

STP will publish an on-line Annual Meeting Attendee List, including physical and e-mail addresses, for all meeting attendees. This will be password protected.
 Check here if you do not wish to be listed in the on-line attendee list provided to all registrants.
 STP also offers Annual Meeting exhibitor companies and corporate sponsors the opportunity to purchase a pre-or post-meeting registrant list (physical address, **not** e-mail address) for approved one-time mailings about Annual Meeting events or their products or services.
 Check here if you wish to be excluded from the list provided for approved 2009 Exhibitor or Sponsor mailings.



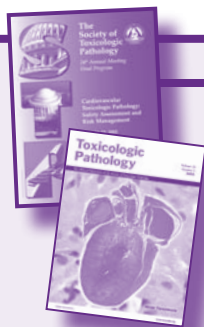
Sponsored Events (as of January 24, 2009)

Monday, June 22, 2009— Continental Breakfast sponsored by **Charles River**

Monday, June 22, 2009, 6:30 PM–10:30 PM—Evening Reception sponsored by **EPL, Inc.**

Exhibitor-Hosted Events

Exhibitors or Sponsors may host an event for all attendees, such as a breakfast, lunch, or reception that does not compete with STP scheduled events. The cost of hosting a function is free; however, all catering costs are the responsibility of the exhibiting company. Events will be publicized in the Exhibits section of the Program book. Please contact Terra Thomas, Meeting and Exhibit Planner at tthomas@toxpath.org for further information.



STP ADVERTISING OPPORTUNITIES

Place an advertisement in the 2009 STP Annual Meeting *Program Guide* and get your second ad placed in the *Toxicologic Pathology Journal* for FREE! This two for one bargain cost \$1,000. Ads displayed in the 2009

Program will also be published in the Issue I of the 2010 *Toxicologic Pathology Journal*...a savings of \$800. Your company name will be available as a source of information both during and after the show. You will be receiving maximum exposure to this niche market via the Annual Meeting attendees and the additional readership of the *Journal*. 43% of the membership work in management and are decision makers for their organizations. 100% of the Annual Meeting Attendees receive the *Program*, and 1,100 members and more than 4,000 institutions receive the *Toxicologic Pathology Journal*.

For More Information,
please call Terra Thomas at 703-438-7508 ext. 1454
or send an e-mail to tthomas@toxpath.org.

2009 EXHIBITORS

(as of January 29, 2009)

Ani Lytics, Inc	Marshall BioResources
Antech GLP	NIEHS National Toxicology Program (NTP)
Aperio	PDS Preclinical Data Systems, Inc.
AstraZeneca	Pfizer
CIT	Roche
ComupCyte Corporation	SAGE Publications
Department of Defense Veterinary Pathology Residency	Saunders/Mosby
DMetrix, Inc.	SNBL USA, Ltd.
EPL Archives	Systems Pathology Company, LLC
EPL, Inc.	Triangle Biomedical Sciences
Histo-Scientific Research Laboratories (HSRL)	VetPath Services, Inc. (VPS)
HistoTox Labs, Inc.	Xybion Corporation
Huntingdon Life Sciences	
Instem	

STP Sponsors

The Society of Toxicologic Pathology thanks the following sponsors for their generous contributions:

(AS OF JANUARY 24, 2009)

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Thank you for your support!

If you and/or your company are interested in 2009 Corporate Sponsorship, please contact STP Headquarters at stp@toxpath.org to request a Sponsor information package.

Call for Abstracts

STP is pleased to invite pathologists, residents, and students to submit abstracts for poster presentation at the 2009 STP Annual Meeting. Abstracts may be submitted on-line at www.toxpath.org through March 1, 2009. Contents of the poster presentations should pertain in some way to the field of toxicologic pathology but are not limited to "classic" toxicity studies/issues/technologies. Naturally occurring toxicities (including poisonous plants), in any species as well as spontaneous and infectious diseases of species used in toxicity studies are welcome as are mechanistic *in vitro* and molecularly-oriented studies. Studies in alternative species such as fish are also encouraged.

Papers previously published may be submitted and presented, however, only original unpublished work will be published in *Toxicologic Pathology*.

Student Travel Awards

Purpose

Student Travel Awards are available to Graduate Students for participation in the Annual Symposium of the Society of Toxicologic Pathology. Each of the ten students who are chosen will receive a \$1,200 stipend to defray travel, and lodging costs associated with attending the convention, complimentary meeting registration, and complimentary student membership (for the following year). Recipients will be honored at an Awards Ceremony prior to the Annual Business Meeting on Wednesday. All recipients will be required to present a poster at the Symposium.

Eligibility

To be eligible to compete for this award, trainees must be graduate students working in the field of experimental or toxicologic pathology or a related discipline (to include veterinary students, pathology residents [veterinary or medical] and/or MS or PhD students), and must be available to travel to (city) to attend the meeting. Candidates who have recently completed (within 12 months of the application date) their graduate studies will also be eligible.

How to Apply

Return Student Travel applications (Items 1–4 below)

by **March 1, 2009** to: STP Headquarters 1821 Michael Faraday Drive, Suite 300, Reston, VA 20190

Phone: 703-438-7508 **Fax:** 703-438-3113

1. Complete the Travel Award Application on the STP Web site www.toxpath.org.
2. Ask your faculty advisor or a faculty member who is familiar with your work to submit a letter of nomination summarizing your qualifications.
3. Submit your *curriculum vitae*.
4. Include a statement of career goals in toxicologic pathology.
5. Submit an abstract on-line (should be limited to 250 words) describing your original work involving clinical or experimental research that relates to experimental or toxicologic pathology.

Submit Abstracts by **March 1, 2009**, on-line at www.toxpath.org.

Young Investigator Award

Young Investigator Awards (1st, \$500; 2nd \$250; 3rd, \$100) are also presented at the STP meeting for the top three student poster abstracts. When you submit an abstract on-line, please check the appropriate box to indicate your interest in applying for the Young Investigator Award. Applicants will receive instructions about the selection process and poster judging times via e-mail in April.

It is important to make hotel reservations as soon as possible to ensure availability

**MEETING DEADLINE
TIMELINE**

VISIT: WWW.TOXPATH.ORG

Abstract Submission Deadline: **MARCH 1, 2009**

Advance Registration Deadline: **APRIL 10, 2009**

Meeting Cancellation Deadline: **MAY 20, 2009**

Pre-Registration Deadline: **MAY 29, 2009**

Please make hotel reservations as soon as possible to ensure availability (pages 4–5).

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The Society of Toxicologic Pathology

1821 Michael Faraday Drive, Suite 300, Reston, VA 20190

Tel: 703-438-7508 Fax: 703-438-3113 Web site: www.toxpath.org