A global overview of Toxicologic Pathology in the 21st Century

April 21st to 26th 2018
São Paulo, SP, Brazil

UNIVERSIDADE DE SÃO PAULO
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<td>9:00 - 9:50 am</td>
<td>Adversity in Nonclinical Toxicology: The Do’s and Don’ts for Toxicologic Pathologists</td>
<td>Air pollution as a global issue – Paulo Saldiva</td>
<td>Development of new molecules in the pharmaceutical industry TBD</td>
<td>Reconstructed Human Epidermis (USP-RHE) is ready for an inter-laboratory validation in Brazil: the development of open-source protocol for corrosion and irritation toxicological assays Silvia Stuchi Maria Engler</td>
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<td>9:50 - 10:40 am</td>
<td>The application of Histopathology in defining adversity. John Foster</td>
<td>Dietary w-3 Fatty Acid Docosahexaenoic acid suppresses silica-triggered autoimmunity and ectopic lymphoid neogenesis in the lungs of Lupus-Prone mice. Jack Harkema</td>
<td>Development of new molecules in the pharmaceutical industry TBD</td>
<td>Alternatives to animal testing: Practical use on safety assessment of cosmetic products. Vanessa Sá Rocha</td>
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### Break and Posters

#### 10:40 – 11:00 am

- **Session 2**
  - Endocrine Disruptors
  - What Is So Special About the Endocrine System? **Douglas Wolf**
  - Endocrine disruptors **Sibylle Groeters**
  - Brazilian perspective: Current activities concerning Human Health and Endocrine Disruptors **Camila Moreira**

#### 11:00 - 11:50 am

- **Session 3**
  - Environmental Tox Path
  - Molecular basis of carcinogenesis. **Ana Paula de Melo Loureiro**
  - DNA Reactivity and Cell Proliferation in Carcinogenesis: Urinary Bladder as an Example **Samuel Cohen**

#### 11:50 - 2:00 pm

- **Session 4**
  - Carcinogenesis
  - On the safety assessment of heavy metals **Takanori Harada**
  - On the safety assessment of stem cell therapies **Ricardo Ochoa**

#### 2:00 - 2:50 pm

- **Session 5**
  - Toxicologic Pathology and development of new molecules
  - On the safety assessment of heavy metals **Takanori Harada**
  - On the safety assessment of stem cell therapies **Ricardo Ochoa**

#### 2:50 - 3:40 pm

- **Session 6**
  - Safety Assessments and New Technologies
  - On the safety assessment of heavy metals **Takanori Harada**
  - On the safety assessment of stem cell therapies **Ricardo Ochoa**

#### 3:40 - 4:00 pm

- **Session 7**
  - The Toxicologic Pathologists and Alternative Methods
  - On the safety assessment of heavy metals **Takanori Harada**
  - On the safety assessment of stem cell therapies **Ricardo Ochoa**

#### 4:00 - 4:50 pm

- **Session 8**
  - Education and training of Toxicologic Pathologists around the world – How can we advance? **Presidents and representatives from Tox Path Societies**

#### 5:00 – 5:50 pm

- **Opening Lecture**
  - The Role of the Toxicologic Pathologist in 21st Century Safety Assessment and Xenobiotic Research **Douglas Wolf**

#### 4:50 - 5:40 pm

- **Closing Remarks**
  - On the safety assessment of fragrance materials **Terry Schultz**

### Break and Posters

#### 4:00 – 4:45 pm

- **Break and Posters**

### Break and Posters

#### 18:00 – 20:00 pm

- **Closing Ceremony**
  - Pizza Party
  - Free Evening
  - Gala Dinner
*NTP Satellite Symposium
“Pathology Potpourri”
April 21, 2018 World Toxicologic Pathology Congress
9:00 a.m. – 4:30 p.m. São Paulo, Brazil

9:00- 9:10
Welcome and Introductory Remarks
Susan A. Elmore, MS, DVM, DACVP, DABT, FIATP
NTP and National Institute of Environmental Health Sciences, NC, USA

9:10- 9:40
Eosinophilic Nasal Septum and Renal Lesions
Susan A. Elmore, MS, DVM, DACVP, DABT, FIATP
NTP and National Institute of Environmental Health Sciences, NC, USA

9:40- 10:05
Challenging Proliferative Uterine Lesions in the Rat
Darlene Dixon, DVM, PhD, DACVP, FIATP
National Institute of Environmental Health Sciences, NC, USA

10:05- 10:30
Adrenal Cortical Lesions
John Foster, BSc, PhD, FRCPath, FIATP, HonFBTS
ToxPath Sciences, Ltd., UK

10:30- 11:00 Break

11:00 - 11:30
Rat Heart Changes: Spontaneous or Treatment Related?
Ricardo Ochoa, DVM, PhD, DACVP
Pre-ˇClinical Safety, Inc., CT, USA

11:30 - 12:00
Liver Toxicity in a Mouse Subchronic Study
Wanda Haschek-ˇHock, BVSc, PhD, DACVP, DABT, FIATP
University of Illinois, USA

12:00 - 1:30 Lunch

1:30 - 1:50
Foreign Material in the Kidney
Jerry Ward, DVM, PhD, DACVP, FIATP
Global VetPathology, USA

1:50 - 2:10
Mouse Urinary Bladder Lesion
Samuel M. Cohen, MD, PhD
University of Nebraska Medical Center, USA

2:10 - 2:40
Lung Lesions in Transgenic Mice
Jack Harkema, DVM, PhD, DACVP
Michigan State University, USA

2:40 - 3:00 Granular Cell Lesions in the Female Reproductive Tract
Lindsay Tomlinson, DVM, DVSc
Pfizer, Inc., MA, USA
3:00 - 3:30 Break

3:30 - 4:00
Liver Lesions – Normal Background or With an Etiology?
Jerry Ward, DVM, PhD, DACVP, FIATP
Global VetPathology, MD, USA

4:00 - 4:30 Two Unusual Liver Lesions
Robert R. Maronpot, DVM, MS, MPH
Maronpot Consulting, LLC, NC, USA

**All Day Short Course April 22, 2018
“Pathology for Non-pathologists”
9:00 a.m. – 5:00 p.m. São Paulo, Brazil

9:00-10:00
Toxicologic Pathology: An Introduction
Wanda M. Haschek-Hock, University of Illinois, USA

10:00-10:45
Cell Death: Mechanisms, and Histopathology
Susan A. Elmore, NTP, NIEHS, NIH, USA

10:45-11:15 Break

11:15-12:00
Inflammation
Flavia R. Pasello dos Santos, Merck Sharp & Dohme, France

12:00-2:00 pm  Lunch

2:00-3:00 pm
Carcinogenesis
Robert R Maronpot, Maronpot Consulting LLC, USA

3:00 - 3:45 pm
Immunohistochemistry
Jerrold M Ward, Global Vet Pathology, USA

3:45 - 4:15 pm  Break

4:15 - 5:00 pm
Molecular Pathology
Darlene Dixon, NTP, NIEHS, NIH, USA