President’s Message

Dear CVSS member:

Thank you for being a part of our specialty section. Our specialty section had an overwhelming response at 2016 SOT Annual Meeting in New Orleans and we were thrilled by the input we received from the participants. I hope you are looking forward to this year’s meeting in Baltimore in March. Our members have organized some great sessions for you all. I strongly encourage all the members to take advantage of these annual meeting as they serve as great professional networking venues and platforms for scientific leadership. This year, in addition to two graduate student travel awards, the CVSS also will be awarding the prestigious Roger O. McClellan Student Endowment Award. This award is designed to encourage veterinarians to become involved in a toxicology career. CVSS encourages all interested veterinary graduate students to apply for this award in 2018.

CVSS sponsored two symposiums and a workshop for the 2017 SOT Annual Meeting. Specialty Sections are responsible for proposing workshops, CE courses and symposia. CVSS has a rich history in this regard. We encourage you to submit ideas for the 2018 SOT Annual Meeting to CVSS.

Thank you for giving me the honor of serving you.

Vijayapal (Vijay) Reddy (v.reddy@lilly.com)
Call for CVSS Officers

Get an insider’s look into how SOT works, Develop Leadership Experience, Broaden your Network and Contribute to your Specialty Section.

Open Positions:
Vice President-Elect & First year Councilor

Duties can be found at https://www.toxicology.org/groups/ss/CVSS/positions.asp

Submit a short Bio to Jennifer Duringer, (jennifer.duringer@oregonstate.edu)

---

Did you miss a Poster at the meeting?
SOT provides you an alternative- Eposters
A convenient way to view the posters in the SOT Mobile App:
https://cms.psav.com/esot2017

---

Call for 2018 SOT Proposals

Mar 11-15 San Antonio, Texas

Consider proposing a Symposium, Workshop or Continuing Education course for the 2018 Annual Meeting.

Topics of CVSS interest
Non-clinical animal models, translational medicine, species to species extrapolation, toxicity testing in 21st century, advances in animal testing, alternatives to animal testing, comparative toxicology, species sensitivity, in vivo animal models, in vitro animal models, mode of action or mechanisms of action.

- SOT 2017 proposal preparation guidance: SOT scientific proposal information
Comparative & Veterinary Specialty Section Sponsored Annual Meeting Events

CVSS Lunch Meeting
Monday, March 13th 2017
12:15 – 2:00 pm
**RSVP required by March 6th, space is limited**
Please RSVP at: http://toxchange.toxicology.org/p/su/rd/survey=b6d2a91ce7f9-11e6-afb2-4040f7e9a909

CVSS sponsored Symposium
Tuesday, March 14, 2017
2:00 – 4:45 PM
Emerging Concepts in Nonclinical Development of Immuno-Oncology Agents: Enabling Translation of Non-Clinical Pharmacology and Safety Evaluation to First-in-Human Clinical Trials

Dr. Vijayapal Reddy and Dr. Jacqueline Kinyamu-Akunda
(Chair and Co-Chair)

Endorsers:
- Immunotoxicology Specialty Section
- Comparative & Veterinary Specialty Section
- Toxicologic and Exploratory Pathology Specialty Section
2017 CVSS Travel Award Recipients

Brandon W. Lewis
Abstract # 1929:
Early Postnatal Secondhand Smoke (SHS) Exposure Disrupts Bacterial Clearance and Abolishes Th2 Responses in Muco-Obstructive Lung Disease.
Comparative Biomedical Sciences,
Louisiana State University

Logeswari Ponussamy
Abstract # 1340
Epigenetic Aberrations during Acquisition of Doxorubicin Resistance in Breast Cancer Cells;
Department of Environmental Toxicology, Texas Tech University.

Travel Awards Submission Criteria:
https://www.toxicology.org/groups/ss/CVSS/submit.asp
2017 Roger O. McClellan Endowment Award Recipient

Katharine A. Horzmann
School of Health Sciences,
Purdue University, West Lafayette, IN

Abstract # 1219

Developmental Toxicity of Trichloroethylene (TCE) in Zebrafish (Danio rerio)

Trichloroethylene (TCE), an industrial degreaser and solvent, is a significant environmental toxicant that contaminates over half of all Superfund sites in the United States and is one of the three most commonly identified chemicals of concern in cancer cluster outbreak investigations. While TCE is recognized as a known human carcinogen by the International Agency for Research on Cancer, TCE has also been linked to congenital cardiac defects, immune and reproductive system dysfunction, and neurodegenerative disease. Environmental exposure to TCE typically occurs through ingestion and inhalation of contaminated ground water sources and the US Environmental Protection Agency has a maximum contaminant level of 5 ppb. However, ground water levels of TCE have been reported at over 10,000 ppb at Superfund sites. The developmental toxicity of TCE near regulatory levels needs further characterization in order to better assess the risk of this environmental toxicant. In this study, the zebrafish model was used to evaluate the acute developmental toxicity of near regulatory level concentrations of TCE by monitoring survivability, percent hatching, morphological measurements, and neurobehavior. Zebrafish embryos were dosed immediately after fertilization with 0, 5, 10, 50, or 500 parts per billion (ppb; μg/L) TCE, or 0.5 ppb 1-trichloromethyl-1,2,3,4-tetrahydro-β-carboline (TaClo), a TCE metabolite. Embryos were exposed to the chemical through 72 hours post fertilization (hpf; the end of embryogenesis), rinsed, and kept in filtered aquaria water until 120 hpf. The percent survival and hatching were not significantly different between treatment groups (p > 0.05). Minor morphological measurements indicated that the 5 ppb and 10 ppb TCE treatment groups as well as the 0.5 ppb TaClo groups had significantly shorter head lengths compared to the other treatments (p< 0.05). The 10, 50, and 500 ppb treatment groups had a significantly smaller head width compared to the other treatments (p < 0.05). No significant differences were observed between TCE treatment groups during the evaluation of neurobehavior in the visual motor response assay (p > 0.05). The morphologic alterations suggest that developmental TCE toxicity is still a concern near regulatory concentrations and that TCE should remain a priority environmental toxicant.

Do not miss
Great Opportunities to NETWORK!!!
Student and Postdoctoral Scholars Events
http://www.toxicology.org/events/am/AM2017/program.asp#SP

Mark your Calendars for
2017 CVSS Annual
Meeting Events
See you all
in
Baltimore!!