

Dose Response Specialty Group of the Society for Risk Analysis

- DRSG was founded in 1994 as a specialty group of the Society for Risk Analysis
- Open to all interested in biological and mathematical relationships between exposure to chemical, physical, or microbial hazards and effects on human populations and environmental species
- Topics of interest include, but are not limited to:
 - ❑ the shapes and positions of dose-response curves and their underlying biological meaning;
 - ❑ population distributions that describe interindividual variability in susceptibility and ranges of response;
 - ❑ probabilistic approaches for projecting responses in unknown populations to assist in regulatory benefits analyses; and
 - ❑ integrated use of mechanistic, animal, and epidemiological data to aid in estimation of risks at low doses
- Multidisciplinary expertise spans the fields of toxicology, medical microbiology, pharmacology, biostatistics, forensic sciences, and environmental sciences



2017–2018 EXECUTIVE COMMITTEE



Chair
Weihshueh Chiu
(Texas A&M)



Chair-Elect
Ingrid Druwe
(NCEA/U.S. EPA)



Past Chair
Ken Bogen
(Exponent Health Sciences)



Vice-Chair
Jacqueline
MacDonald Gibson
(UNC)



Secretary/Treasurer
Paul Schlosser
(NCEA/U.S. EPA)



Trustee-at-Large
Allen Davis
(NCEA/U.S. EPA)



Trustee-at-Large
Sarah Henry
(U.S. FDA, retired)

JOIN THE OPEN DRSG MONTHLY WEBINARS

- **Open teleconferences** are held the first Tuesday of every month (noon -1 p.m. Eastern Time) to discuss and plan symposia, proposed workshops, open forums, and other DRSG-sponsored activities on dose response issues. *New members and guests are welcome, so please join us!* **Join the mailing list to receive announcements!**
- **Six teleseminar presentations in 2017**
 - ❑ **February 2: Facilitated Discussion** • Mentoring in Risk Assessment
 - ❑ **April 4: Dr. Leo Transande** • Health and Economic Consequences of Endocrine Disruptors in the US and EU
 - ❑ **May 2: Dr. Wayne Landis** • Exposure-response in environmental toxicology and risk assessment, from receptors to ecological landscapes
 - ❑ **August 1: Drs. Jonathan Samet, George Daston, and Lauren Zeise** • Using 21st Century Science for Risk-related evaluations: An Overview of the NAS Risk21 Report
 - ❑ **September 5: Dr. Qiang Zhang** • Understanding the Biochemical Origin of Sigmoidal Dose Responses: Ultrasensitive Response Motifs
 - ❑ **October 3: Dr. Jeff Gift** • Overview of EPA Approaches for the Dose-Response Analyses of Inorganic Arsenic Health Outcomes
- See <http://www.sra.org/drsg/list-previous-teleseminars> for titles and slides from past teleseminars!

DOSE RESPONSE ASSESSMENT:

The process of characterizing quantitative relationships between the expected or observed incidence or degree of responses and exposure levels of chemical, physical, and biological hazards in animals, people, and the environment

ISSUES OF INTEREST

- Measuring and modeling variability in dose-response relationships
- Normal and susceptible animals and humans
- Host, agent, and environmental variability in dose-response
- Low-dose extrapolations
- Incorporating information on modes of action and repair/protection into dose-response assessments
- Selection of surrogate agents in absence of quantitative data for agents of concern
- Tissue dosimetry
- Harmonization of cancer and noncancer endpoints for chemicals, chronic and acute adverse effects for microbial pathogens

JOIN THE GROUP

- **WEBSITE:** Go to <http://www.sra.org/drsg/> – Our website includes minutes of meetings and teleconference discussions, notices of current events, etc. (see “Membership/How to Join” to learn how to become a member)
- **LINKED-IN:** Go to <http://www.sra.org/drsg/> and click on the “Join Group” button to join our **Linked-In** group
- **MAILING LIST:** To join the DRSG mailing list, please send a blank email to: drsg-l-subscribe@indiana.edu and our listserver administrator will then add you to our mailing list!

MEET THE GROUP

- **Annual DRSG Business Meeting** – Mon (12/11) at 12:10–12:45 pm in **Salon A**
- **DRSG mixer** – Tuesday (12/12) from 6:00 – 7:30 in **Skyview**. This year’s mixer is jointly held with the Exposure Assessment Specialty Group, Applied Risk Management Specialty Group, and the Microbial Risk Assessment Specialty Group
- **2017 Student Award winners – Congratulations!**
 - ❑ **Qiran Chen** – The Correlation between Liver Tumor Incidence and Early-stage Liver Weight Change - An Analysis Using NTP Data
 - ❑ **Alexandre Chabrelie** – Horizontal Gene Transfer Under Dynamic System Conditions for Understanding Dose-Response Relationships for Antibiotic Resistance Risks
- **DRSG also sponsors many sessions at the Annual Meeting!**
 - ❑ **Sunday Workshops: WK1S, WK6S**
 - ❑ **Monday: M3-J, M4-I, M4-J; Posters P.40-P.56, P.116, P.171-P.173**
 - ❑ **Tuesday: T2-I, T3-D**
 - ❑ **Wednesday: W3-I, W3-J, W4-I**
 - ❑ **Thursday Workshops: WK11T**

Society for Risk Analysis: a multidisciplinary, interdisciplinary, scholarly, international society that provides an open forum for all those who are interested in risk analysis

Contact SRA:
phone: 703-790-1745
email: sra@burkinc.com
<http://www.sra.org/>