**Minutes of DRSG Meeting**

**6 April 2021**

Prepared by Dustin Kapraun

**Participants**:

Scott Auerbach, Chair

Matt Wheeler, Past Chair

Jeffry Dean, Vice Chair

Andrew Williams, Chair Elect

Dustin Kapraun, Secretary/Treasurer

Allen Davis, Trustee-at-Large

Sarah Davidson, Trustee-at-Large

Amanda Bernstein, Graduate Student/Postdoctoral Representative

Peg Coleman

Paul Schlosser

Weihsueh Chiu

**Agenda Items**

* **Last Webinar:** Anthony Reardon. Scott will request slides and share those via the website. Andrew will check to be sure Anthony Reardon is okay with us posting this content.
* **SRA DRSG Website:** Training was provided at end of February. Dustin will send meeting notes to Scott. Officers (e.g., Chair and Secretary) can post content on specialty group website.
* **Minutes from last meeting:** https://www.sra.org/specialty-groups/dose-response/minutes-and-items/
* **Next Webinar:** Ideas…
  + Wout Slob gave a talk at SOT about “three fundamental principles” to keep in mind when analyzing dose-response data.
  + Colleen Sutton, re: dermal dose response.
  + Paul Price, re: Probability exposure mixtures, doi:10.1111/risa.13550
* **SRA webinar hosting:** Dustin will share SRA contact information with Andrew.
* **Dose-Response Modeling Resources:** Create a webpage on the DRSG website with links to dose-response modeling software.
  + BMDS
  + PROAST
  + ToxicR
  + PythonBMDS
  + Other R packages: drc; tcpl; drfit; *nlstools*, MCPMod, *DoseFinding; EADRM; ALOHA*
  + BMDExpress
  + BMDFast
  + BMDx
  + BBMD (Kan Shao) (benchmarkdose.org)
  + ToxPOD

Do we need a system for nominating and approving what we post on our website?

* **Mentoring:** Let SRA handle it and we step in as needed? Hold speed mentoring sessions? Host software demonstrations? Weihsueh participated in a mentoring panel at the SRA annual meeting. (Amina Wilkins contacted him to ask him to participate in this.) Make a list of volunteers for different topics? Scott will reach out to SRA to discuss mentoring/volunteering?
* **Proposals for next annual meeting:** Ideas…
  + Factor of two criterion for PBPK models. (Dustin & Paul & John Wambaugh will likely submit a proposal for this.)
  + Bayesian modeling/calibration. What are best practices? Unspoken assumptions – are they acceptable?
  + What is the appropriate order of analysis for dose-response data?
    - BMD modeling on animal d-r data, then use PBPK to estimate human equivalent dose for animal point-of-departure BMD.
    - Convert animal doses from d-r data to internal doses using PBPK model. Do BMD modeling. Then compute human dose for BMD internal dose.
    - In which situations should one of these approaches be used?
  + Intrinsic limitations of modeling/forecasting behavior in complex systems. Mouse/rat vs. human in vitro system. Which one is less wrong? Can we go beyond prioritization? (Scott will likely submit a proposal for this.)
  + Environmental Justice Session. Focus up until now is mostly on differences in exposure. How can dose-response help address environmental justice issues? What about genetic diversity? What about pre-existing or concurrently existing issues, such as environmental issues? Baseline/background chemical/mixture exposures. Non-specific stressors.
* **Student and Postdoc Awards:**
  + When do we start advertising? Abstracts due June 11, and submission opened this month (April), so perhaps go ahead and start advertising.
  + When should there be a webinar associated with the award?
  + How much money?
  + Can we do winner and runner up?
  + Can we consider all relevant abstracts rather than just student abstracts (or just students with abstracts who have also submitted an extended abstract and application for the award). Can we contact people who have submitted relevant abstracts and ask if they are students and if they’d like to apply for awards?