Computational Toxicology Specialty Section

ANNUAL REPORT: 2021-2022
May 1, 2021 to April 30, 2022

I. Officers/Committees:

Officers	2021-2022	2022-2023
President:	Catrin Hasselgren	Nigel Greene
Vice President-Elect:	Minjun Chen	Kevin Cross
Vice President:	Nigel Greene	Minjun Chen
Secretary:	Fjodor Melnikov	Fjodor Melnikov
Treasurer:	Kevin Cross	Alessandro Brigo
Past President	David T. Szabo	Catrin Hasselgren
Councilors:	David T. Szabo	Catrin Hasselgren
	Patricia Ruiz	Lisa Truong
	Anne Loccisano	Anne Loccisano
PDA Representative:	Adrian Green	Adrian Green
Grad Student Representative:	Emily Golden	Emily Golden

Committees: Executive committee (chair: Catrin Hasselgren), awards committee (chair: Patricia Ruiz), nominations committee (chair: Catrin Hasselgren), Website Liaison (Fjodor Melnikov), Outreach Liaison (chair: Nigel Greene), membership outreach (chair: Catrin Hasselgren)

II. 2021 Membership total: 274

III. Key Outcomes in 2021-2022:

A. Members of the CTSS committee submitted three (all accepted) proposals for the 2021 Annual Meeting to further the uptake and awareness of Computational Toxicology at SOT. In total CTSS sponsored 6 sessions in the 2022 scientific program.

B. Instated a new Mentorship program to support the development of junior scientists

IV. Activities:

A. 2022 SOT Annual Meeting Activities (e.g., courses, scientific sessions, or virtual receptions):
Computational Toxicology Specialty Section Virtual Meeting
Date and Time: Wednesday, March 30, 2022 from 12 pm – 1:30 pm PT
Summary: The CTSS luncheon included a brief welcome by the CTSS President, highlights were announced regarding the 2021-2022 events and accomplishments, recognition to sponsors and supporters, and was followed by an award ceremony.

B. 2022 Awards Information:

CTSS Paper of the Year Award
"Revealing Adverse Outcome Pathways from Public High-Throughput Screening Data to Evaluate New Toxicants by a Knowledge-Based Deep Neural Network Approach", Environ. Sci. Technol.2021, 55, 10875−10887 by Heather L. Ciallella, Daniel P. Russo, Lauren M. Aleksunes, Fabian A. Grimm, and Hao Zhu

The Yves Alarie Diversity Award - Linlin Zhao, PhD (received whilst at Genentech Inc., currently at Amazon)

CTSS Student Award - Xuelian Jia (Rutgers Center for Computational and Integrative Biology)

CTSS Postdoctoral Travel Award - Adrian Green, PhD (North Carolina State University)

Best SOT-CTSS Abstract Awards - Yun Hao (University of Pennsylvania), Natalie Mesens (Janssen Pharmaceuticals), Mohan Rao (Janssen Pharmaceuticals)

Top 10 SOT-CTSS abstract awards - Alexandre Borrel (Silent Spring Institute), M. T. Smith (UC Berkeley), Mark D. Nelms (RTI International), Candice Johnson (Instem), Rachael E. Tennant (Lhasa Limited), Martyn L. Chilton (Lhasa Limited), A. Tandon (Sciome LLC)

C. Other Educational Activities Conducted (e.g., webinars, in person meetings):

Co-sponsored Webinar with MDCPSS - Practical Application of Computational Models to Predict Release Kinetics and Toxicity of Compounds Released from Medical Devices
Date: June 2, 2021
Duration: 1.5 hours
Speaker 1: Rob Brown, Risk Science Consortium, LLC
Speaker 2: David Saylor, US Food and Drug Administration
Attendees: 189

CTSS Webinar - Application of in vitro and in silico data in predictive modeling of human organ toxicity
Date: June 23, 2021
Duration: 1 hour
Speaker: Ruili Huang, PhD, National Center for Advancing Translational Sciences, NIH
Attendees: 162

CTSS Webinar - Moving from One-Size-Fits-All to Fit-for Purpose TTC Values
Date: August 5, 2021
Duration: 1 hour
Speaker: Ron Brown, PhD, Risk Sciences Consortium
Attendees: 685

Joint CSS & CTSS Webinar - Integrating Computational Tools into Carcinogenicity Assessments
Date: December 14, 2021
Duration: 1 hour
Speakers: Mark Cronin, PhD, Liverpool John Moores University, Liverpool, UK & Federica

Madia, PhD, Joint Research Centre, Ispra, Italymin
Attendees: 240

Joint CSS & CTSS Webinar - Integrating Computational Tools into Carcinogenicity Assessments II
Date: February 15, 2022
Duration: 1 hour
Speakers: Emilio Benfenati, PhD, Instituto Negri, Milan, Italy & Raymond Tice, PhD, RTice Consulting, Hillsborough, NC, USA
Attendees: 248

CTSS Webinar - The Predictive Toxicogenomics Space (PTGS) Modeling Tool Captures Diverse Cellular and Organ Toxicity Mechanisms and Serves for *In Vitro* Model-Driven Prediction of Drug-Induced Liver Injury
Date: April 27, 2022
Duration: 1 hour
Speaker: Roland Grafström, Professor & Pekka Kohononen, PhD, Karolinska Institutet, Stockholm, Sweden
Attendees: 177

D. Communication Activities:
1. Newsletter publication frequency: Fall 2021
2. New or Significant Announcements/blogs:
3. Highlight of Website enhancements: The CTSS website has been maintained and updated as needed.
4. CTSS member participation on the SOT Specialty Section Collaboration and Communication Group (SSCC)

E. Mentoring activities: Initiated a mentorship program, currently 13 mentor/mentee pairs are participating.

V. Feedback and Ideas:

A. In what ways is your group fostering and maintaining an inclusive environment? CTSS requests for volunteers from our membership to participate on our many committees.

B. This opportunity is open to all members.

C. How might SOT better support your group's activities (perhaps something the Society should be doing that we currently do not do, or do not do effectively, that would be of importance/benefit to the members of your component group?):
Note: If funding is listed, please provide detail on the membership need that the funding would support.

D. What is one thing that the Society is currently doing that impacts your component group that should be changed (e.g., stopped, modified, etc.)? Mentoring sessions for students and postdocs are a universal goal for all specialty sections and request the Specialty Section Collaboration and communication (SS-CC) coordinate best practices for different session types. Further, recommend they work with SOT to establish a specialty section wide event at SOT annual meeting.

E. What changes do your component group anticipate making in the way in which it operates in the coming year?