

Computational Toxicology

ANNUAL REPORT: 2022–2023

May 1, 2022 to April 30, 2023

I. Officers/Committees

<u>Officer</u>	<u>2022–2023</u>	<u>2023–2024</u>
President:	Nigel Greene	Minjun Chen
Vice President:	Minjun Chen	Kevin Cross
Vice President-Elect:	Kevin Cross	Fjodor Melnikov
Secretary:	Fjodor Melnikov	Holly Mortensen
Treasurer:	Alessandro Brigo	Alessandro Brigo
Past President:	Catrin Hasselgren	Nigel Greene
Councilors:	Anne Loccisano	Joel Cohen
Postdoctoral Representative:	Lisa Truong	Lisa Truong
Graduate Student Representative:	Emily Golden	Heather Ciallella
	Elena Chung	Elena Chung

Committees:

- Executive Committee (chair: Nigel Greene)
- Awards Committee (chair: Anne Loccisano)
- Nominations Committee (chair: Nigel Greene)
- Website Liaison (Fjodor Melnikov)
- Outreach Liaison (chair: Minjun Chen)
- Membership Outreach (chair: Nigel Greene)

II. 2022 Membership total: 247

III. Key Outcomes in 2022–2023:

- A. Members of the CTSS Executive Committee were involved in the development of several proposals for the 2023 Annual Meeting to further the uptake and awareness of Computational Toxicology at SOT. In total, CTSS sponsored 9 sessions, of which, 7 were accepted for inclusion in the 2023 Scientific Program.
- B. The mentorship program was reviewed and feedback from participants was favorable. The program was renewed in 2023.

IV. Activities

- A. SOT Annual Meeting Activities (e.g., courses, scientific sessions, receptions):

Computational Toxicology Specialty Section Meeting

Date and Time: Wednesday, March 22nd, 2023, from 12 pm – 1:30 pm PT

Summary: The CTSS luncheon included a brief welcome by the CTSS President, highlights were announced regarding the 2022-2023 events and accomplishments, recognition to sponsors and supporters, and was followed by an award ceremony.

B. 2023 Awards Recipients:

CTSS Paper of the Year Award

“Toward Quantitative Models in Safety Assessment: A Case Study to Show Impact of Dose-Response Inference on hERG Inhibition Models.” Int J Mol Sci. 2022, 24: 635. by Fjodor Melnikov (Genentech Inc.)

The Yves Alarie Diversity Award - Chao Ji, PhD, EIT (Indiana University Bloomington)

CTSS Student Award – Tong Wang (Rowan University)

CTSS Elsevier Award – Elena Chung, PhD (Rowan University)

Best SOT-CTSS Abstract Awards - Kai Wang (University of Michigan); Isaac Mohar (Gradient); Mohan Rao (Neurocrine)

Top 10 SOT-CTSS Abstract Awards - Louis Groff (USEPA); Mark Cronin (Liverpool John Moores University); Brianna Paisley (Eli Lilly); Martyn Chilton (Lhasa Limited); Kimberly To (Inotiv); Anders Wallqvist (US Army); Liang Xu (USFDA/NCTR)

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

Overview of Bioinformatic Sequence Analysis and Applications in Toxicology

(Co-sponsored with SOT Arab Toxicologists Association)

Date: December 6th, 2022

Duration: 1 hour

Speaker 1: Dr. Ahmed Abdelmoneim, BVMS, MSc, PhD

Speaker 2: Dr. Tamer Mansour, MBChB, MS, PhD

Artificial Intelligence Enables Structural Toxicity Testing for Endpoint and Multiple-Timestep Assays

(Co-sponsored with AACT)

Date: September 16th, 2022

Duration: 1 hour 10 min

Speaker: Alexandre Ribeiro, PhD

Integrating mass spectrometry non-targeted analysis and computational toxicology to characterize chemicals

(Co-sponsored with MDCPSS)

Date: June 30th, 2022

Duration: 1 hour

Speaker 1: Antony Williams

Speaker 2: Ron Brown

2022 Computational Toxicology Specialty Section Award Winner Presentations

Date: June 29th, 2022

Duration: 1 hour

Speaker 1: Heather Ciallella

Speaker 2: Xuelin Jia

Speaker 3: Adrian Green

Speaker 4: Linlin Zhao

D. Communication Activities:

1. Newsletter publication frequency: Fall 2022
2. Communication Highlights: CTSS has been maintaining a LinkedIn group.
3. Highlights of website enhancements: The CTSS website has been maintained and updated as needed.

E. Mentoring Activities: Initiated a mentorship program, currently 28 mentor/mentee pairs are participating.

V. Feedback and Ideas:

A. In what ways is your group fostering and maintaining an inclusive environment? Please give examples of any current practices used to support inclusion in processes such as 1) leadership selection and promotion, 2) award descriptions and selection, and 3) endorsement of proposals for the Annual Meetings.

CTSS requests volunteers from our membership to participate on our committees.

B. What is one thing 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?

N/A

C. What is one thing that the Society is currently doing that impacts your component group that should be changed (e.g., stopped, modified, etc.)?

N/A