

Computational Toxicology Specialty Section

ANNUAL REPORT: 2024–2025

May 1, 2024 to April 30, 2025

I. Officers:

<u>2024–2025</u>	<u>2025–2026</u>
President: Kevin Cross Vice President: Fjodor Melnikov Vice President-Elect: Alessandro Brigo Secretary: Holly Mortensen Treasurer: Lisa Truong Past President, Councilor: Minjun Chen Councilor: Joel Cohen Councilor: Adrian Green Postdoctoral Representative: Heather Ciallella Graduate Student Representative: Elena Chung	President: Fjodor Melnikov Vice President: Alessandro Brigo Vice President Elect: Zhoumeng Lin Past President, Councilor: Kevin Cross Secretary: Dakota Robarts Treasurer: Lisa Truong Councilor: Lennart Anger Councilor: Adrian Green Postdoctoral Representative: David Umbaugh Graduate Student Representative: Pei-Yu Wu

Committees:

Executive committee (chair: Kevin Cross), awards committee (chair: Fjodor Melnikov), nominations committee (chair: Minjun Chen), Website Liaison (Fjodor Melnikov), Outreach Liaison (chair: Elena Chung) membership outreach (chair: Heather Ciallella), scientific sessions committee (Alessandro Brigo), newsletter (Adrian Green)

II. 2025 Membership total: 235

III. Key Outcomes and Accomplishments in 2024–2025:

The Computational Toxicology Specialty Section accomplished the following activities throughout the year.

- In-person meeting/mixer
- Sponsored session(s) at the Annual Meeting
- Endorsed session(s) at the Annual Meeting
- Trainee awards conferred
- Scientist investigator awards conferred
- Paper of the year award
- Newsletter(s)
- Webinars
- Business meeting (communicated operations/finances to members)
- Utilized/expanded Endowment Fund(s) for Component Group

IV. Collaborative Partnerships with Other SOT Organizations:

The Computational Toxicology Specialty Section collaborated with the following organizations within SOT.

- Drug Discovery Toxicology
- Regulatory and Safety Evaluation

V. Communication Methods:

The Computational Toxicology Specialty Section stayed in contact with its members throughout the year through the following mechanisms.

- Emails through SOT Headquarters
- Specialty Section website
- Newsletter(s)
- Through Graduate Student/Postdoc Representatives
- LinkedIn

VI. Promotion of Inclusivity

The Computational Toxicology Specialty Section maintained an inclusive organization through the following activities.

- Nominate a diverse slate of candidates for elections
- Solicit equitable input from all executive committee leaders
- Utilize standardized rubrics for judging awards/posters
- Include inclusive descriptions of Awards
- Highlight trainee research
- Solicit member feedback for development of Specialty Section activities (such as webinar topics)
- Provide volunteer activities for the membership to be engaged
- Use multiple approaches to communicate with membership
- Support the Yves Alarie Diversity Award

VII. Mentoring and Career Development Activities:

The Computational Toxicology Specialty Section hosted the following mentoring activities throughout the year for its membership.

- Actively recruit members to be part of the SOT Mentor Match system
- Actively solicit for CTSS awards including: post-doc and student travel
- Sponsor “winners webinars” highlighting early career awardee work

VIII. Awards Given:

Trainee	4
Early Career	3
Mid Career	1
Late Career	0

IX. Strategic Plan:

The Computational Toxicology Specialty Section supported the following SOT Strategic Priorities.

- Proactively pursue impactful scientific content

- Support the development and and application of tools that advance toxicology
- Effectively communicate scientific advances
- Foster connectivity across scientific disciplines
- Develop a talent pool of toxicologists for the future
- Provide training and education that reflects the needs of members
- Enhance member recognition and visibility at all levels

X. Scientific Topics of Interest:

The Computational Toxicology Specialty Section is interested in seeing the following topic areas developed into sessions at future SOT Annual Meetings.

- Artificial Intelligence/machine learning in computational toxicology – where are we now?
- Artificial Intelligence use in regulatory assessments
- Artificial Intelligence in Data Science – Pros and Cons
- Virtual Control Groups within *in vivo* repeat-dose toxicology studies

XI. Feedback to the Society:

- A. What is the one thing the Society should be doing that it currently does not do (or does not do effectively) that would be of importance/benefit to the members of the Specialty Section?

The new SOT mentorship program has negatively impacted the CTSS mentorship program, causing confusion and reducing the success of specialty section programming.

- B. What is the one thing the Society is currently doing that impacts the Specialty Section that should be changed (e.g., stopped, modified, etc.)?

Specialty Sections cannot easily contact or solicit non-members, grad students and post-docs. directly to recruit additional members or inform them of award opportunities.