

Neurotoxicology

ANNUAL REPORT: 2022–2023

May 1, 2022 to April 30, 2023

I. Officers/Committees

Officer

President: Jason Cannon
Vice President: Marissa Sobolewski
Vice President-Elect: Vanessa Fitsanakis
Secretary/Treasurer: Muhammad Hossain
Past President: Jason Richardson
Councilors: Briana De Miranda
Marcia Ratner
Shannah Witchey
Alyssa Merrill
Postdoctoral Representative:
Graduate Student Representative:

2022–2023

Jason Cannon
Marissa Sobolewski
Vanessa Fitsanakis
Muhammad Hossain
Jason Richardson
Briana De Miranda
Marcia Ratner
Shannah Witchey
Alyssa Merrill

2023–2024

Marissa Sobolewski
Vanessa Fitsanakis
Rodrigo Franco
Muhammad Hossain
Jason Cannon
Megan Culbreth
Marcia Ratner
Anna Kreutz
Alyssa Merrill

Committees:

SOT Session Proposal Committee:

Jason Cannon, Marissa Sobolewski
Vanessa Fitsanakis
Jason Richardson
Nikolay Filipov
Alison Bernstein

Distinguished Neurotoxicologist Committee:

Jason Richardson (Chair)
Briana De Miranda
Vanessa Fitsanakis
Muhammed Hossain
Deborah Cory-Slechta
David Jett

Poster Competition:

Briana De Miranda
Marcia Ratner

Travel Award Committee:

Jason Cannon
Marissa Sobolewski
Vanessa Fitsanakis

I. 2022 Membership total: 279

II. Key Outcomes in 2022–2023:

- A. NTSS members received the Distinguished Toxicology Scholar Award and the Toxicologist Mentoring Award.
- B. Four NTSS members served on SOT Council.

III. Activities

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

Sponsored:

- 1 Platform
- 2 Symposia

- 1 Workshop

B. 2023 Awards Recipients:

- Distinguished Neurotoxicologist (William Boyes)
- Travel Award Winner (Ashley Adamson)
- Travel Award Winner (Dipro Bose)
- Travel Award Winner (Sebastian Gutsfeld)
- Travel Award Winner (Isha Mhatre-Winters)
- Travel Award Winner (Luke Liu)
- 1st Place (tie) Graduate Student Poster (Novel Discovery of the Choroid Plexus (CP)-Subventricular Zone (SVZ) Regulatory Axis: Evidence from Small-sized Extracellular Vesicles Released from the CP to Altered Adult Neurogenesis in SVZ and Implications in Manganese-induced Non-motor Syndromes, Luke Liu)
- 1st Place (Tie) Graduate Student Poster (Oxidative damage from Parkinson's disease associated environmental toxicants is attenuated by LRRK2 kinase inhibition, Neda, Ilieva)
- 2nd Place Graduate Student Poster (Oxidative DNA Damage Epigenetically Decreases Gene Expression in Brca1 KO Fetal Brains Exposed In Utero to Saline or Ethanol, Kian Afsharian)
- 3rd Place Graduate Student Poster (Natural history of acute and subchronic electrophysiologic responses to acute intoxication with the organophosphate diisopropylfluorophosphate in male and female rats, Peter Andrew)
- 1st Place Postdoctoral Poster (Juvenile exposure to manganese sensitizes to rotenone induced neuropathology and is not ameliorated by genetic inhibition of IKK2/NFkB signaling in microglia in a mouse model of Parkinson's disease, Savannah Rocha)
- 2nd Place Postdoctoral Poster (Environmental and pharmacological regulators of vesicular dopamine dynamics, Meghan Bucher)
- 3rd Place Postdoctoral Poster (APOE-Genotype and Sex Alters Effects of Organochlorine Pesticide DDT in Humanized APOE Mice, Isha Mhatre-Winters)

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

2023 SOT Workshop:

Expanding our knowledge on neurological disease etiologies: current research on the neural exposome

- D. Communication Activities:
 - 1. Newsletter publication frequency: Yearly
 - 2. Communication Highlights: Highlights included on our NTSS newsletter (see NTSS website)
 - 3. Highlights of website enhancements: Newsletter, special issues, job announcements, other items of interest to the NTSS membership placed in a prominent position on the website.
- E. Mentoring Activities: NTSS members participate in SOT mentorship activities; none run directly through NTSS.

IV. 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.

The NTSS leadership actively fosters and maintains an inclusive environment through a concerted effort to recruit a diverse and inclusive roster of candidates for leadership selection. Additionally, inclusion and diversity are part of our scoring matrix in endorsements of proposals for the annual meetings.

- 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?

We would like the funds to update the website.

- 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.)?

The announcement of decreased SOT funding for mentorship programs: "Education and Career Development Committee for mentoring initiatives has been paused and will no longer support funding for the sections" is concerning and will limit future emerging plans for NTSS to directly support mentoring initiatives.