

## Neurotoxicology

### ANNUAL REPORT: 2022–2023

May 1, 2022 to April 30, 2023

#### I. Officers/Committees

##### Officer

President:  
Vice President:  
Vice President-Elect:  
Secretary/Treasurer:  
Past President:  
Councilors:  
  
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)
- 1<sup>st</sup> 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)
- 1<sup>st</sup> Place (Tie) Graduate Student Poster (Oxidative damage from Parkinson's disease associated environmental toxicants is attenuated by LRRK2 kinase inhibition, Neda, Ilieva)
- 2<sup>nd</sup> 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)
- 3<sup>rd</sup> 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)
- 1<sup>st</sup> 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)
- 2<sup>nd</sup> Place Postdoctoral Poster (Environmental and pharmacological regulators of vesicular dopamine dynamics, Meghan Bucher)
- 3<sup>rd</sup> 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.