

Neurotoxicology Specialty Section

ANNUAL REPORT: 2021–2022

May 1, 2021 to April 30, 2022

I. Officers/Committees

<u>Officer</u>	<u>2021–2022</u>	<u>2022–2023</u>
President:	Jason R. Richardson	Jason R. Cannon
President-Elect/Vice President:	Jason R. Cannon	Marissa Sobolewski
	Marissa Sobolewski	Vanessa A. Fitsanakis
Secretary/ Treasurer:	Alison I. Bernstein	Muhammad M. Hossain
Past President:	Nikolay “Nick” Filipov	Jason R. Richardson
Councilors:	Kristen R. Ryan	Marcia Ratner
	Briana De Miranda	Briana De Miranda
Postdoctoral Representative:	Anke Tukker	Shannah K. Witchey
Graduate Student Representative:	Minhong Huang	Alyssa K. Merrill
Previous Past President:	Lucio G. Costa	Nikolay “Nick” Filipov
Endowment Fund Steward:	Pamela J. Lein	Pamela J. Lein

Committees:

Distinguished Neurotoxicologist Award Committee

Trainee Poster Award Committee

Nomination Committee

II. 2021 Membership total: 316

III. Key Outcomes in 2021–2022:

- A. 3 NTSS members serve on SOT Council
- B. NTSS members received the 2021 Distinguished Toxicology Scholar Award, the 2021 Education Award, the 2021 Translational Impact Award.
- C. NTSS members received the 2022 Translational Impact Award and the 2022 Women in Toxicology Mentoring Award
- D. Endowment fund increased to \$152,611 as of end of year 2021

IV. Activities

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

Symposia – 4
Workshops – 2
CE Course – 1
NTSS Reception

- B. 2022 Awards Information:

1. Travel Award Winners: Rachel Lacroix, Naomi Kramer and Ola Wasel
2. 2022 Graduate Student Best Abstract Awards:
 1. 1st Place: Ola Wasel “Developmental Neurotoxicity of GenX and PFBS Using Zebrafish Model

2. 2nd Place: Neda Ilieva “LRRK2 Kinase Inhibition Protects Dopaminergic Neurons from Parkinson’s Disease-Associated Environmental Toxicants”
3. 3rd Place: Yi-Hua Tsai “Characterization of Cellular Senescence in Adult Rat Model of Acute Diisopropylfluorophosphate (DFP) Intoxication”
3. 2022 Postdoc Best Abstract Awards:
 1. 1st Place: Isha Mhatre-Winters ‘Sex-Specific Responses of Primary Microglia and Astrocytes from Humanized APOE3 and APOE4 Mice to Inflammatory Stimuli”
 2. 2nd Place: David Leuthold “A Novel Battery of Behavior-Based Assays in Larval Zebrafish and its Potential to Elucidate Neurodevelopmental Toxicity Mechanisms with a Focus on Deficits in Learning and Memory”
 3. 3rd Place: Paige Mundy: “Royal Demolition Explosive (RDX) Triggers Seizure Activity in Larval Zebrafish”
4. 2022 Graduate Student Best Poster Awards:
 1. 1st Place: Ferass Sammoura “DDT and its Metabolite DDE Increase Levels of Amyloid Precursor Protein and Secretion of Amyloid Beta”
 2. 2nd Place: Arturo Barahona “The Effects of Organochlorine Pesticide DDT and its Metabolite DDE on Amyloid Beta Pathology in the 5xFAD Mouse Model of Alzheimer’s Disease”
 3. 3rd Place: Alyssa Merrill “Effects of Gestational Low-Dose Perfluorooctanoic Acid on Maternal and Anxiety-Like Behavior in Dams”
5. 2022 Postdoc Best Poster Awards:
 1. 1st Place Tie: Megan Culbreth “Optimization of an Animal Component-Free System for High-Throughput Phenotypic Profiling of Human Neural Progenitor Cells”
 2. 1st Place Tie: Paige Mundy “Royal Demolition Explosive (RDX) Triggers Seizure Activity in Larval Zebrafish”
 3. 2nd Place Tie: David Leuthold “A Novel Battery of Behavior-Based Assays in Larval Zebrafish and its Potential to Elucidate Neurodevelopmental Toxicity Mechanisms with a Focus on Deficits in Learning and Memory”
 4. 2nd Place Tie: Anna Kreutz “In Vitro-In Vivo Extrapolation (IVIVE) for Neurodevelopmental Toxicokinetics and In Vitro Point of Departure Evaluation of Putative Developmental Neurotoxicants”

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

N/A

D. Communication Activities:

1. Newsletter publication frequency: Yearly
2. New or significant announcements/blogs: Updated on website
3. Highlights of website enhancements: Included in newsletters

E. Mentoring Activities: No formal mentoring activities

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.

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. 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.

The major support needed relates to the need for reduced oversight and bureaucracy related to the ability of NTSS to post relevant material for our members on the NTSS 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.)?

Limiting the content of relevant material that can be posted to the NTSS website.

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

No major changes anticipated