

NAME OF SPECIALTY SECTION \_\_\_\_Neurotoxicology\_\_\_\_\_

## **ANNUAL REPORT: 2016-2017**

May 1, 2016 to April 30, 2017

### **I. Officers/Committees:**

<u>Officers</u>	<u>2016-2017</u>	<u>Current: 2017-2018</u>
President:	Abby A Li	Mary E Gilbert
Vice President:	Mary E Gilbert	Michelle L Block
Vice President-Elect:	Michelle L Block	Lucio Costa
Secretary/Treasurer:	Ronald B Tjalkens	Ronald B Tjalkens
Past President	William K Boyes	Abby Li
Councilors:	Mamta V Behl	Vanessa Fitsanakis
	Helen J K Sable	Helen J K Sable
PDA Representative:	Marissa Sobolewski	Marissa Sobolewski
GSLC Representative:	Megan Elizabeth Culbreth	David Edmondson

### **Committees:**

**Distinguished Neurotoxicologist Award Committee:** William Boyes (Chair), Michelle Block, Aaron Bowman, Marion Ehrich, Steven Lasley.

**Conference Award Committee:** Michelle Block (Chair), Abby Li, William Boyes, Helen Sable

**Trainee Poster Award Committee:** William Boyes (Chair), Helen Sable and 40 NTSS Members as Judges

**Nomination Committee:** Aaron Bowman (Chair)

### **II. Activities:**

**2017 SOT Annual Meeting Reception** was held in Baltimore, Maryland on Tuesday, March 14, 2017.

Approximately 250 people were in attendance.

Dr. Abby Li called the meeting to order at 7:00 pm on March 14.

Business Meeting Speaker: Dr. Deborah Cory-Slechta, University of Rochester, Distinguished Neurotoxicologist Awardee, 2017.

**Meeting Minutes:** see powerpoint slides, Attachment I

### **Awards: Conference Travel Award Recipients:**

1. Pallavi Pilaka, Virginia Commonwealth University, Undergraduate Awardee
2. Shelbie Burchfield, Northeast Ohio Medical University, Graduate Student Awardee
3. Gelareh Alam, Northeast Ohio Medical University, Post-doctoral Awardee

### **Trainee Poster Presentation Award Recipients:**

**PostDoctoral Trainees**

- 1<sup>st</sup> place poster – Kimberley Keil, UC Davis, Advisor Pamela Lein  
2<sup>nd</sup> place poster – Katherine O'Shaughnessy, ORISE/US EPA, Advisor Mary Gilbert  
3<sup>rd</sup> place poster – Suren Bandara, UC Davis, Advisor Pamela Lein

#### **Graduate Student Trainees**

- 1<sup>st</sup> place poster – Monica Langley, Iowa State U, Advisor Anu Kanthasamy  
2<sup>nd</sup> place poster – Jennifer Panlilio, Penn State University, Advisor Alura/Hahn  
3<sup>rd</sup> place poster – Diana You, NE Ohio Medical Centre, Advisor Aleksunes/Richardson

#### **SOT Recognition of Outstanding NTSS Members:**

**Jason Richardson, Ph.D., DABT, ATS** received the **2017 SOT Achievement Award** for his significant contribution to toxicology. Dr. Richardson is Professor of Pharmaceutical Sciences and Acting Associate Dean for Research College of Pharmacy at Northeast Ohio Medical University.

**William Boyes, Ph.D.** was selected to receive the SOT 2017 **Ocular Toxicology Specialty Section Career Achievement Award**. Dr. Boyes is an Environmental Health Scientist at the US Environmental Protection Agency.

**Stephen Gilbert, Ph.D., DABT**, was selected to be a **Global Senior Scholar Exchange Program (GSSEP) Host** for SOT. Dr. Gilbert is the Director and Founder of the Institute of Neurotoxicology and Neurological Disorders.

**Megan Culbreth, Ph.D. candidate** from Dr. Michael Aschner's lab at Albert Einstein College of Medicine was selected to receive the **Outstanding Graduate Student Leadership Committee Award**

**2017 SOT Annual Meeting Courses/Sessions:** NTSS Endorsed sessions presented in 2017 included 2 Continuing Education Courses; 2 Symposia; 4 Workshops; 1 Roundtable

**Endowment Fund Details:** Three Conference Travel Awards funded through the Endowment Fund. Balance as of March 2017 \$76,957

**Newsletters:** A fall newsletter was prepared and distributed to the membership in November, 2016.

**Contributions to SOT website:** 2017 Poster and Travel Awardee winners were added to the NTSS website

#### **Other Specialty Section 2016-2017 Activities:**

1. NTSS reviewed and endorsed 9 proposals for Continuing Education Courses, Symposia, Workshops, and Round Tables. Nine of these were accepted by Scientific Programming Committee and presented at the meeting this year.
2. **New Battelle Laboratory support for poster award established this year allowing** NTSS to substantially increase the award amounts for the NTSS poster competition. Special thanks to Battelle scientists: Kale Vijay, Satheesh Anand, Amy Zmarowski
3. Nineteen graduate student and 13 postdoctoral student extended abstracts and poster presentations were evaluated.

# **Neurotoxicology Specialty Section (NTSS)**

**Annual Reception**

**Welcome**

**March 15, 2017**

# **Quick Announcements of Other Neurotoxicology Meetings of Interest**

Ed Levin: International Neurotoxicology Meeting  
Others?

# SOT Symposia, Workshops, Roundtable and Continuing Education Sessions

- THANK YOU TO ALL WHO SUBMITTED PROPOSALS!
- 2017: 2 Symposia, 4 Workshops, 1 Roundtable, 2 CE Courses
- Planning ahead for 2018 needs to happen now!
- One of NTSS's most important function
- Promotes neurotoxicology-relevant content at SOT
- Generated by members of NTSS

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# **NTSS and SPC Proposal Process**

**NTSS Pre-review deadline:  
April 15<sup>th</sup>—earlier the better**

**Contact Presidents of other relevant specialty  
section for their pre-review deadline**

**SOT Deadline:  
May 15, 2017 11:59 pm ET**

# DOs and DON'TS for SOT Session Proposals: **THE DOs**

1. Review the SOT website  
[http://www.toxicology.org/ms/SciSess\\_proposal.asp](http://www.toxicology.org/ms/SciSess_proposal.asp)
2. Submit draft proposals directly to up to three SS/SIG(s) that are potential endorsers for their review/feedback prior to formal submission to SOT.
3. Clearly state in the overall abstract the session objectives and how the different speakers contribute to those objectives.
4. Give your speakers guidance on how to write well-developed abstract so that a scientist not in your field can understand the significance and relationship to the overall topic.
5. If you submitted last year and did not make it, try again!



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**Please contact NTSS  
Officers if you have any  
questions about how to  
develop proposals**

# 2016–2017 NTSS Officers



**President**  
Abby Li



**Vice-President**  
Mary Gilbert



**Vice-President Elect**  
Michelle Block



**Secretary/Treasurer**  
Ron Tjalkens



**Past-President**  
Will Boyes



**Past-Past President**  
Aaron Bowman



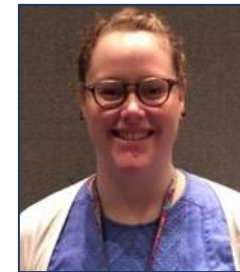
**Councilor**  
Mamta Behl



**Councilor**  
Helen Sable



**Post-Doctoral  
Representative**  
Marissa Sobolewski



**Graduate Student  
Representative**  
Megan Culbreth

# Thank you Outgoing Officers

- **Megan Culbreth:** Graduate Student Rep
  - Winner of SOT 2017 Outstanding Graduate Student Leadership Committee Award
- **Marissa Sobolewski:** Post-doc Rep (re-elected)
- **Mamta Behl:** Councilor
- **Abby Li:** President
- **Special thanks to Aaron Bowman: Past/Past President**

# New Officers



**Vice President Elect**  
Lucio Costa



**Councilor**  
Vanessa Fitsanakis



**Graduate Student Rep**  
David Edmondson

# General Fund

- **Treasurer:** Ron Tjalkens
- **Balance 12/2016:** \$14,652.00
- **Supported by NTSS member fees:** PLEASE JOIN
- **NEW Battelle Laboratory support for poster award**
  - Allows NTSS to substantially increase the award amounts for the NTSS poster competition.
  - Looking forward to continued partnership with Battelle
  - *Thank you to Battelle scientists: Kale Vijay, Satheesh Anand, Amy Zmarowski*
- **Estimated reserve after SOT 2017:** \$1800.00

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# Toshio Narahashi Neurotoxicology Fellowship Endowment Fund

- **Steward:** Pam Lein
- **As of 2017 SOT Endowment Fund:** \$76,957
- **3 Travel Awards:** \$800
- **Deadline for 2018 SOT meeting:** November 7, 2017

**Many thanks to NTSS Member and  
Institutional Contributions**

# Toshio Narahashi Neurotoxicology Fellowship Endowment Fund

- Help defray cost of travel expenses to the annual Society of Toxicology national meeting
- Eligibility
  - Undergraduates, post-baccalaureates, graduate students, and post-doctoral fellows
- Trainees must attend the annual meeting
- 2016 review panel: Michelle Block (chair), Abby Li, Will Boyes, Helen Sable



# Toshio Narahashi Endowment Trainee Conference Award



**Pallavi Pilaka**  
**Undergraduate**  
Virginia Commonwealth  
University



**Shelbie Burchfield**  
**Graduate**  
Northeast Ohio Medical  
University



**Gelareh Alam**  
**Post-doctoral Fellow**  
Northeast Ohio Medical  
University

# Distinguished Neurotoxicology Award

- Recognizes NTSS members who have made important high-impact scientific, regulatory, or service contributions to our field

▪

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- This year, we established clear criteria, defined procedures, encouraged nominations, and convened a committee to evaluate applications. Details of this process can be found on the NTSS website(<https://www.toxicology.org/groups/ss/NTSS/awards.asp>).

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- 2016–17 review panel: Drs. William Boyes (chair), Michelle Block, Aaron Bowman, Steven Lasley, and Marion Ehrich carefully evaluated three nominations.

# Deborah Cory-Schlechte University of Rochester

2017 Distinguished  
Neurotoxicologist Award

# 2017 SOT Recognition of NTSS Members



**Jason Richardson, Ph.D., DABT, ATS** received the **2017 SOT Achievement Award** for his significant contribution to toxicology. Dr. Richardson is Professor of Pharmaceutical Sciences and Acting Associate Dean for Research College of Pharmacy at Northeast Ohio Medical University.



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**Megan Culbreth, Ph.D. candidate** from Mikki Aschner's lab at Albert Einstein College of Medicine was selected to receive the **Outstanding Graduate Student Leadership Committee Award**



# 2017 NTSS Poster Competition

**Chairs:** Will Boyes and Helen Sable

**Graduate student posters: 19**

**Postdoctoral posters: 13**

# Thank You Judges!

Joshua Allen  
Aaron Bowman  
Will Boyes  
Jason Cannon  
Rodrigo Franco Cruz  
Chris Curran  
T.V. Damodaran  
Derek Drechsel  
Ayse Basak Engin  
Paul Eubig  
Nick Filipov  
Vanessa A. Fitsanakis  
Tim Flanigan

Ellen Fritsche  
Mary Beth Genter  
Mary Gilbert  
Joshua Harrill  
Jean Harry  
Katja Hempel  
David Herr  
Helena Hogberg  
Muhammad Hossain  
Mary Jeanne Kallman  
Arthi Kanthasamy  
Prasada Kodavanti  
Steve Lasley

Ed Levin  
Abby Li  
Chris Newland  
Andrew Ottens  
Bhaja K. Padhi  
Carey Pope  
Gale Richardson  
Kristen R Ryan  
Helen Sable  
Susan Schantz  
Tim Shafer  
Christoph van Thriel  
Remco Westerink  
Yukun Yuan

# Winners of 2016 NTSS Poster Competition

## Graduate Students

- Third Place:

Diana You

Advisors (Aleksunes & Richardson)

# Winners of 2016 NTSS Poster Competition

## Graduate Students

- Second Place:

Panlilio, Jennifer

Advisors: Alura/Hahn

# Winners of 2016 NTSS Poster Competition

## Graduate Students

- First Place, Battelle Best Student Poster Award

Monica Langley

Advisor: Kanthasamy

# Winners of 2016 NTSS Poster Competition

## Postdoctoral Students

- Third Place:

Suren Bandara

Advisor: Lein

# Winners of 2016 NTSS Poster Competition

## Postdoctoral Students

- Second Place:

Katie O'Shaughnessey

Advisor: Gilbert

# Winners of 2016 NTSS Poster Competition

## Postdoctoral Students

- First Place:

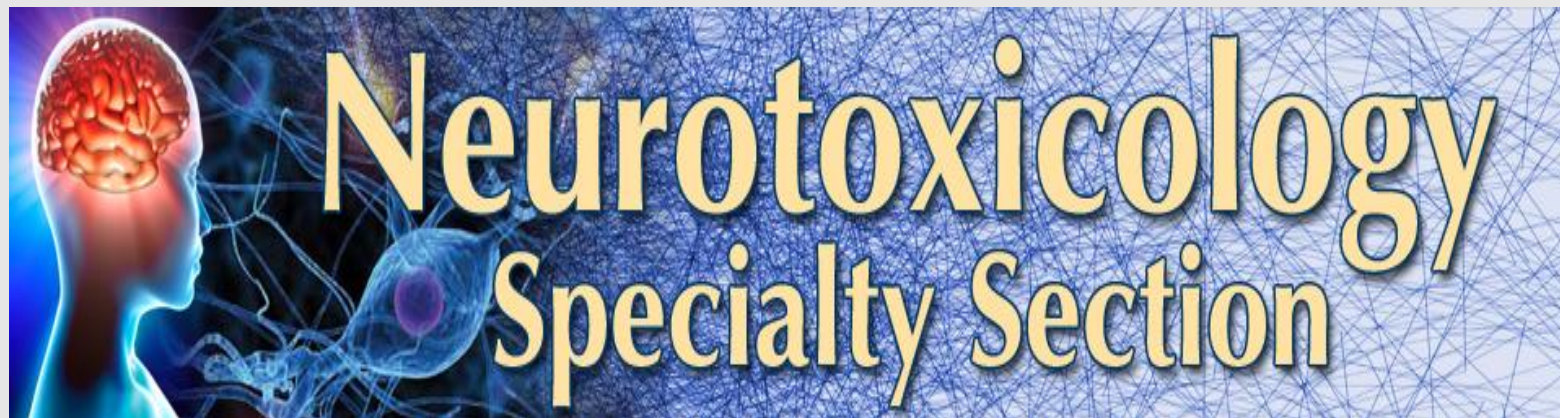
Kimberly Keil

Advisor: Lein



**THANK YOU**

**See you in San Antonio, Texas in 2018**



**Annual Reception  
Welcome**

**March 16, 2016**

# 2015 – 2016 NTSS Officers



President:  
Will Boyes



Vice-President:  
Abby Li



Vice-President-Elect:  
Mary Gilbert



Secretary/Treasurer:  
Ron Tjalkens



Past President:  
Aaron Bowman



Councilor:  
Michelle Block



Councilor:  
Mamta Behl



Post-doctoral  
representative:  
Kiran Dhakal



Graduate student  
representative:  
Megan Culbreth

# New Officers

- Michelle L. Block— VP Elect
- Ronald B. Tjalkens – Secretary/Treasurer
- Helen J. K. Sable – Councilor
- Marissa Sobolewski – Postdoctoral Representative
- Megan Culbreth - Graduate Student Rep

Thanks to Anu Kanthasamy

# General Fund

- Treasurer – Ron Tjalkens
- Balance as of 12/2015: \$14,863
- Supported by NTSS member fees

Membership 356

# **Toshio Narahashi Neurotoxicology Fellowship Endowment Fund**

- Steward: Pam Lein
- New SOT Endowment target: \$50,000
- As of SOT 2016 numbers we had raised: \$67,750
- SOT will match contributions up to \$100,000
- **Thanks to NTSS Member donors!!!**
- **Institutional Contributions:**

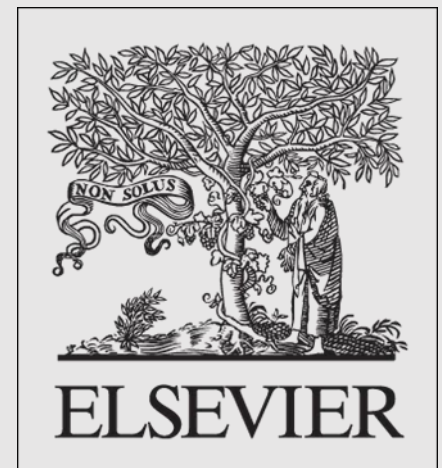
NeuroToxicology

INA

Oklahoma State University

# Corporate Sponsors

## Toshio Narahashi Neurotoxicology Endowment



# NTSS Toshio Narahashi Trainee Conference Award

- The goal is to support the attendance of meritorious trainees in Neurotoxicology to the SOT meeting by relieving potential financial barriers for travel.
  - Scientific merit, and commitment from the trainee's mentor to cover the balance of travel expenses not covered by the award will be key criteria used in the decision process.
  - Attendance at the meeting is mandatory upon acceptance of the award
- Three Awardees selected this year one from each 'level of career' but this may remain fluid dependent upon the constitution of the applications each year

Deadline for submission will be advanced for 2017 meeting to be just after abstract submission deadline in October

Goal is to have awardees selected by early December to meet SOT deadlines for delivery of award in advance of the meeting to allow trainees flexibility in travel plans.

Award is handled by VP-Elect and Councilors.

Check Spring Newsletter and Award Site in early October for deadline details.



## **NTSS Toshio Narahashi Conference Awardees 2016**

### **Jasmine Brown – US EPA**

Further Evaluation of Developmental Neurotoxicity (DNT) Hazard Screening using Neural Networks from Rat Cortical Neurons on Multi-well Microelectrode Arrays  
Mentor: Tim Shafer

### **Marshall Edwards - U Texas, San Antonio**

Early Juvenile Exposure Of Mice To High-dose Acetaminophen Confers Elevated Serum Eotaxin Levels And Sociability Impairments In Adulthood  
Mentor: Georgiana Gould

### **Dana Laurenstein, NYU School of Medicine**

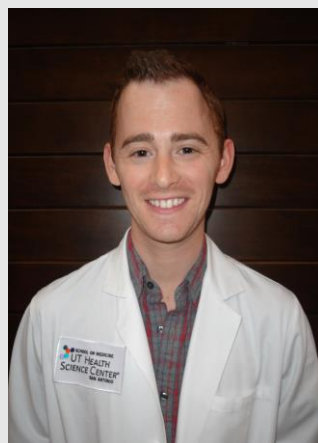
E-cigarette Exposure Induces Neuro-alterations In Mice Exposed During Early Life  
Mentor: Judith Zelikoff

# **\*New\* Neurotoxicology Specialty Section Toshio Narahashi Trainee Conference Award**

**Congratulations to the 2016 winners!!**



**Jasmine Brown**  
U.S. EPA



**Marshall Edwards**  
UT Health Science Center  
at San Antonio

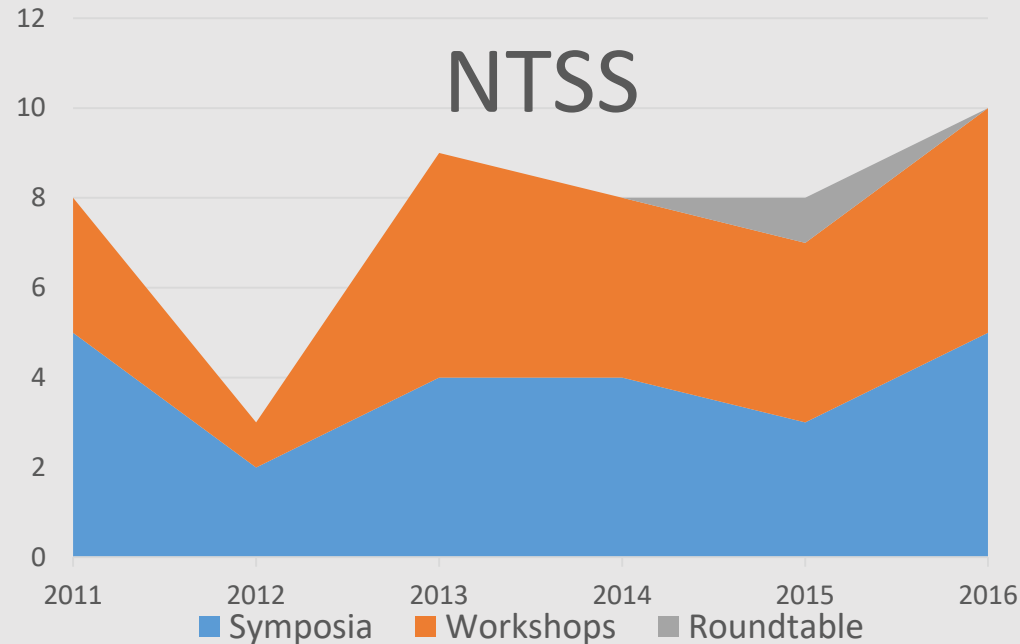


**Dana Lauterstein**  
NYU School of Medicine

# Symposia, Workshops, Continuing Education and Roundtable Sessions

- One of the NTSS most important functions
- Provides neurotoxicology content that we come to the meetings for.
- Generated by members of the NTSS
- Competitively awarded by the SOT Scientific Program Committee

2016 NTSS had highest number of total SOT sessions (10) since records began in 2011



# Symposia, Workshop and CE Course proposal for 2017 meeting

[http://toxicology.org/main/sessionProposalSubmit\\_Instr.asp](http://toxicology.org/main/sessionProposalSubmit_Instr.asp)

SOT Deadline: **April 30<sup>th</sup>**, 11:59pm ET

NTSS Pre-review deadline: **April 12<sup>th</sup>**

1. Submit proposal drafts to Abby Li ([abbyli@exponent.com](mailto:abbyli@exponent.com)) if you would like optional pre-review and comments.
2. Pre-proposals will be reviewed by Abby Li, Will Boyes, Mary Gilbert, Aaron Bowman, and Michelle Block.
3. Summary comments returned to submitter within ~ 1 week of submission as time permits.
4. Submit final proposals to SOT.
5. SOT send to NTSS for review and ranking.

# Abby Li's Don't and Do's for SOT Session Proposals

## Don'ts

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## DO's

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# NTSS Webpage and Facebook

Kiran Dhakal – NTSS Postdoc Rep  
Megan Culbreth— Grad. Student Rep



## Neurotoxicology Specialty Section

Like Us On  
**facebook**

[www.facebook.com/Neurotoxicology](http://www.facebook.com/Neurotoxicology)



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Membership/Join  
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News & Events  
Resources  
Reports  
President's Messages  
Photo Gallery  
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### Welcome to NTSS

#### Neurotoxicology Specialty Section of the Society of Toxicology

NTSS members share interests in the adverse effects of chemical, biologic and physical agents on the structure and function of the nervous system:

- Learn [about NTSS](#), its mission, current officers, member benefits and more
- [Join NTSS](#) with membership in SOT—the Society of Toxicology
- Get information about [events](#) including SOT's annual meeting and meetings of interest to NTSS
- Read [news](#) in the field of neurotoxicology
- NTSS sponsors [awards](#)—find out how to apply and who has won
- Check these [resources](#) about neurotoxicology, share your knowledge

### Announcements

[Postdoctoral Funding Opportunity—US EPA](#)

[Postdoctoral Opening University of Wisconsin-Madison Molecular Neurotoxicology](#)

[Dr. Toshio Narahashi Obituary](#)

[SOT Announces Pilot Program for Undergraduate Interns](#)

[NTSS Awards Info and Deadlines](#)

[Newly Renamed Toshio Narahashi Fellowship](#)



<http://www.toxicology.org/isot/ss/NTSS/index.asp>

# Open Announcements

- Ed Levin – INA / NTX
- Joan Cranmer - Manganese Meeting
- Others?



# Thank you Outgoing Officers

- Michelle Block (Councilor)
- Ronald Tjalkens (Secretary/Treasurer)
- Kiran Dhakal – Postdoc Rep
- Megan Culbreth – Grad. Student Rep (re-elected)
- Will Boyes – President

# **2016 NTTS Poster Competition**

**Chair: Aaron Bowman**

*Graduate student posters: 22*

*Postdoctoral posters: 10*

# Thank You 35 Judges! (Phase 1 & Phase 2)

<b>Abby Li</b>	<b>Jason Cannon</b>	Michelle Block
<b>Anumantha Kanthasamy</b>	<b>Jason Richardson</b>	Mohammad Houssain
<b>Arthi Kanthasamy</b>	Jean Harry	Nick Filipov
Bhaja Padhi	JiaRen Liu	Pam Lein
<b>Carey Pope</b>	<b>Jill Harvilchuck</b>	Rodrigo Franco Cruz
Chris Curran	Josh Allen	Steve Lashley
<b>Christina de Zafra</b>	<b>Katja Hempel</b>	Sue Schantz
<b>Derek Drechsel</b>	<b>Krishnan Sriram</b>	TV Damondaran
<b>Donna Lee</b>	<b>Kristen Ryan</b>	Vanessa Fitsanakis
<b>Hassan El-Fawal</b>	<b>Mamta Behl</b>	Will Boyes
<b>Helena Hogberg</b>	Mary Genter	
	Mary Gilbert	

**BOLD = judged both phases**

Graduate students had a minimum of 5 judges scored across both phases

Postdoctoral fellows had a minimum of 4 judges scored across both phases

# Winners of 2016 Toshio Narahashi Poster Competition Graduate Students – 3<sup>rd</sup> Place (\$100)

- **Shivani Ghaisas, Iowa State University**
- Mentor: Anumantha Kanthasamy

**Chronic exposure to manganese causes selective changes in the enteric nervous system and gut physiology leading to altered nutrient metabolism and intestinal motility**

*“Shivani was able to demonstrate that continued exposure to Mn causes selective changes in the enteric nervous system and gut physiology leading to altered nutrient metabolism and intestinal motility.... As the primary author, Shivani has made substantial contributions, from the conceptualization and experiment design stages to the execution, analysis and interpretation of the research reported.”*

# Winners of 2016 Toshio Narahashi Poster Competition Graduate Students – 2<sup>nd</sup> Place (\$200)

- **Miles Bryan, Vanderbilt University**
- Mentor: Aaron Bowman

## **A potential role for phosphatidylinositol-3-kinase (PI3K) in regulating manganese transport through an autophagy-mediated mechanism**

*“Miles has made great progress on his project to understand the connections between major signaling pathways altered by manganese exposure and regulation of manganese cellular homeostasis under toxic Mn exposure conditions as well as Mn insufficiency conditions associated with the pathophysiology of Huntington’s Disease (HD).... He has led the work on this project, under my guidance, and has overseen all experiments and analysis presented.”*

# Winners of 2016 Toshio Narahashi Poster Competition Graduate Students – 1<sup>st</sup> Place (\$300)

- **Katriana Popichak, Colorado State University, Fort Collins**
- Mentor: Ronald Tjalkens

## **Activation Of The Nuclear Receptor Nur77 By A Novel Diindolylmethane Analog Suppresses Inflammatory Gene Expression In Primary Astrocytes**

*“Katriana is extremely dedicated and resourceful in developing new methodologies and invested a great deal of effort to carefully validate methods for DNA and RNA analysis in primary cultured glial cells and neurons... She is meticulous, thoughtful, and very knowledgeable and was consistently the ‘go to’ person for the junior graduate students and undergraduates in the lab whenever they had theoretical or practical questions regarding their projects.”*

# Winners of 2016 Toshio Narahashi Poster Competition Postdoctoral– 3<sup>rd</sup> Place (\$100)

- Kim Keil, Univ. California Davis
- Mentor: Pam Lein

## **DNA Methylation As A Mediator Of 2,2',3,5',6-Hexachlorobiphenyl (PCB 95) Induced Dendritic Arborization**

*“She has not only mastered a large and diverse number of new techniques since joining my laboratory, including neurobehavioral analyses in rodent models, primary neuronal cell culture, advanced microscopy techniques, including STED super resolution microscopy and high content imaging, morphometric analyses of dendritic arborization and sophisticated statistical analyses...These innovative approaches have yielded some startling data that are driving research in the lab in new directions.”*

# Winners of 2016 Toshio Narahashi Poster Competition Postdoctoral – 2<sup>nd</sup> Place (\$200)

- **Marissa Sobolewski, Univ. Rochester**
- Mentor: Deborah Cory-Slechta

**Developmental Mismatch between Fetal and Adult Steroid Concentrations: Enhanced Hormonal Dysregulation in Adult Mice Maternal Exposed to a Mixture of Low Dose Endocrine Disrupting Chemicals**

*“She is extremely bright and a critical thinker; her ability to hone in on important questions and to appraise the literature is remarkable...The project that she is reporting on in this poster is entirely her own and its significance, i.e., the enhanced neurotoxicity of mixtures of endocrine disrupters, clearly breaks new ground.”*



# Winners of 2016 Toshio Narahashi Poster Competition Postdoctoral – 1<sup>st</sup> Place (\$300)

- **Briana Miranda, Univ. Pittsburgh**
- Mentors: Edward Burton and J. Timothy Greenamyre

## **Astrocyte specific expression of DJ-1 attenuates rotenone-induced neurotoxicity; a gene therapy approach**

*“Dr. De Miranda has carried out a large in vivo neuroprotection study along with in vitro experiments to elucidate the mechanisms of astrocytic DJ-1 mediated neuroprotection...the data she will present in her poster for the Neurotoxicology Specialty Section are exciting, since they suggest a novel cell non-autonomous role of astrocytic DJ1 expression in neuroprotection and a possible therapeutic strategy for Parkinson’s disease.”*

**Thank You!**