



Template for Division Reports to Council (September 15)

Name of Division: Neuropharmacology

Status of Division Activities:

[1-2 sentences on the status of each activity, if applicable. Describe briefly what worked/didn't work]

A. Annual Meeting Programming and Events:

EB2017

At EB 2017 in Chicago the Neuropharmacology Division sponsored three symposia. One of the symposia (# 1 below) was organized by the winner of the Neuropharmacology Division Early Career Independent Investigator Award (Dr. Ryan Drenan of Northwestern University)

1. MECHANISTIC STUDIES IN CHOLINERGIC NEUROBIOLOGY: FOCUS ON NICOTINIC ACETYLCHOLINE RECEPTORS. Chair: R.M. Drenan
2. THERAPEUTIC PROSPECTIVES FOR CANNABINOIDS: BEYOND MARIJUANA AND PAIN. Chairs: H. Neelakantan and S.J. Ward
3. DEVELOPING NOVEL THERAPEUTIC STRATEGIES TO MODULATE K⁺/CL⁻ COTRANSPORTER 2 (KCC2) FUNCTION Symposium (Sponsored by: ASPET Division for Neuropharmacology) Wed. 3:00 pm— McCormick Place Convention Center, W470B Chairs: P.A. Davies and T.G. Deeb

We also held our traditional NEU “Postdoctoral Scientist Award Finalists” division oral session, chaired by: B. Greenwood-Van Meerveld and M.W. Wood.

The following Symposia at EB 2017 were co-sponsored by the Neuropharmacology Division:

1. NONPHARMACOLOGICAL FACTORS INFLUENCING DRUG ACTION Symposium
Chair: Michael A Nader
2. BEHAVIORAL MODELS OF AGE-RELATED COGNITIVE DECLINE. Chairs:
Kevin Murnane and Jennifer Bizon
3. TOOLS AND TARGETS: OVERCOMING CHALLENGES IN MODERN DRUG
DISCOVERY. Chairs: Don R. Mattison and Craig Beeson
4. CARDIOVASCULAR PATHOBIOLOGY OF INFLAMMASOMES. Chairs: Yang
Zhang and Krishna M. Boini
5. The CRISPR-Cas9 REVOLUTION IN PHARMACOLOGY. Chairs: Karen Tonsfeldt
and Lakshmi A. Devi.

6. GAME-BASED LEARNING AND CLINICAL SIMULATION FOR PHARMACOLOGY. Chairs: Mark J. Hernandez and Kelly M. Quesnelle
7. JULIUS AXELROD SYMPOSIUM: EVOLVING INSIGHTS REGARDING GPCRS: COMPARTMENTATION, SIGNALING AND CLINICAL UTILITY. Chair: Paul A. Insel
8. MUSHROOMING POTENTIAL OF PSYCHEDELICS AS THERAPEUTICS. Chairs: William E. Fantegrossi and Roland Griffiths
9. QUANTITATIVE SYSTEMS PHARMACOLOGY: APPLICATION TO CANCER DRUG DEVELOPMENT AND PERSONALIZED/PRECISION MEDICINE. Chairs: Jessie L.S. Au, Jerry S.H. Lee
10. SCIENCE AND GOVERNMENT: HOW TO MAKE A DIFFERENCE THROUGH ADVOCACY. Chairs: Allyson C. Marshall and Naeem Patil

The Neuropharmacology Division Executive Committee meeting was held on Monday April 24th, 7-8.15am at the Hyatt Regency McCormick Place, Chicago.

The Neuropharmacology Business Meeting was held on Tuesday April 25th, 5.45-6.30 pm am at the Hyatt Regency McCormick Place, Chicago. At this meeting the retiring President (Beverly Greenwood-Van Meerveld), Secretary/Treasurer (Michael Wood) and Communications Officer (Anil Kumar) were presented with plaques in recognition of their service. Retiring student and postdoc members were presented with a certificate. Award winners –see below were also announced here or at the mixer.

The Neuropharmacology Division joined the Behavioral Pharmacology Divisions for a joint mixer on Tuesday April 25th 6.30 to 8.30 pm at the Hyatt Regency McCormick Place, Chicago.

EB2018

At EB2018 the Neuropharmacology Division will again hold a pre-doctoral abstract competition, postdoctoral competition and Early Career Independent Investigator Award competition. At EB2018 the Neuropharmacology Division will convene an Executive Committee Meeting and a Business Meeting as well as a Joint Mixer with the Behavioral Pharmacology Division.

This year the postdoctoral competition submissions will be *via* the EB website with a special designation.

Symposia

We received eight symposium proposals. We guarantee a symposium to our Early Career investigator (Dr. Ferrario- see below) and we reserve a spot for oral presentations from our Postdoctoral Scientist Awards competitors.

Received proposals

1. Neurotransmitter Transporters in Health and Disease (Nancy Zahnise Memorial Symposium). Lynette Daws
2. NeuroMolecular Therapeutics: How Will We Get There? Kathryn Cunningham
3. Targeting Pain: Functional selectivity at the mu opioid receptor. Susruta Majumdar

4. Role of Microglia, Astrocytes and BBB during Neuroinflammation. Anindya Bhattacharya
5. The What, Where, and When of Endogenous Opioid Peptide Actions. Lakshmi Devi
6. New Strategies to Modulate AMPA Receptors in Neurological Disease.
Melissa Barker-Haliski
7. New Paradigms for Targeting Adenosine Receptors: Basic and Translational Applications.
Laura Bohn
8. Molecular Mechanisms of Addiction and Novel Therapeutic Targets. Michelle Mazei-Robison

Symposia accepted and approved by Council for EB2018

1. NANCY ZAHNISER MEMORIAL SYMPOSIUM: THE DOPAMINE TRANSPORTER IN HEALTH AND DISEASE. Chair: Lynette Daws and Habibeh Khoshbouei.
2. THERE'S ALWAYS ROOM FOR DESSERT: EXAMINING THE EFFECT OF INSULIN AND HIGH FAT DIET ON NEUROTRANSMISSION, MOTIVATION AND COGNITION. Chair: Carrie Ferrario and Lawrence Reagan
3. DIVISION FOR NEUROPHARMACOLOGY POSTDOCTORAL SCIENTIST AWARD FINALISTS. Chairs: Stella Tsirka and John Traynor

Symposia to be co-sponsored by NEU for EB2018

1. COMPUTATIONAL APPROACHES TO G PROTEIN-COUPLED RECEPTOR STRUCTURE AND FUNCTION
2. JULIUS AXELROD SYMPOSIUM: THE PLURIDIMENSIONALITY OF G PROTEIN-COUPLED RECEPTOR (GPCR) SIGNALING
3. TEACHING INSTITUTE: FLIPPING NOT FLOPPING: ACTIVE LEARNING STRATEGIES FOR GRADUATE AND HEALTHCARE PHARMACOLOGY
4. TRANSPORTERS AT THE BLOOD-CNS BARRIERS

Division Awards:

EB2017

The Neuropharmacology Early Career Independent Investigator Award winner was Dr. Carrie Ferrario, University of Michigan. Dr. Ferrario received: \$1000 travel award, free meeting registration to Experimental Biology, one year free membership to ASPET, and an invitation to submit a symposium proposal (with the help of a committee member as a mentor) for the EB2017 meeting. She will also serve on the NEU Executive Committee.

Winners of the Neuropharmacology Postdoctoral Scientist Awards were Erin Calipari (1st), Icahn School of Medicine at Mount Sinai, Erin Bobeck (2nd winner) from the Icahn School of Medicine at Mount Sinai. Three people were equal third place winners: Matthew

Robson from Florida Atlantic University, Natalie Scholpa (from the University of Arizona, and Karen Tonsfeldt, the University of California San Diego.

Winners of the best Graduate Student Best Abstract Awards were Melodi Bowman (1st), University of Texas Health Science Center, San Antonio and Colleen Carpenter (2nd place winner), University of Michigan. Three shared 3rd place winner: Julianny Marrero Vega, State University of New York at Buffalo, Eric Wold, University of Texas Medical Branch, and Molly McGinnis, Wake Forest University Health Sciences.

We welcome our two 1st place winners Erin Calipari and Melodi Bowman to the NEU Executive committee

Note: The Neuropharmacology Postdoctoral Scientist Awards and the Neuropharmacology Graduate Student Best Abstract Awards were supported by Division funds. First place winners received \$750 & became NEU Executive Committee members; 2nd place \$500; 3rd place \$250. Each winner will receive complementary registration for EB 2017.

No pre-meeting Travel Awards to attend EB2017 were given because in previous years travel award winners declined the divisional award because they had received a higher dollar amount travel award from ASPET and awardees are restricted to one award.

B. Nominations for Officers:

The following have been nominated to stand for
Chair of the Division

- Kelly Standifer, Professor and Chair, Pharmaceutical Sciences, College of Pharmacy, University of Oklahoma Health Sciences Center
- Dr. Irwin Lucki, Professor and Chair, Department of Pharmacology, Uniformed Services University

Secretary/Treasurer of the Division

- Shaifali Bhalla, Associate Professor, Department of Pharmaceutical Sciences, Northwestern University, Chicago College of Pharmacy
- Daniel Morgan, Assistant Professor, Hershey Medical center, Penn State University

Note: David Sibley was approved as the NEU Liaison for 2017-2018.

C. Non-ASPET meetings supported/sponsored by Division:

The Neuropharmacology Division will host a social at the Society for Neuroscience (SFN) 2017 Annual meeting in Washington DC. NEU division funds did not allow NEU to support any other outside meetings in 2017. No changes are anticipated in 2018.

D. Marketing and Communications Efforts:

(Include website, division membership recruitment, email communications, LinkedIn group activities).

We have appointed a new Communications Officer – Dr. Luisa Torres from Cornell University. Luisa has been very active in communicating with members regarding their achievements for publication in “The Pharmacologist” and in communicating with the Chair and Secretary/Treasurer. Information on NEU members is forwarded to the Publication Office that reviews the information and determines its suitability for publication. The NEU division also uses “The Pharmacologist” to highlight award winners at all levels and travel grant awardees. These are also provided on our web page.

We plan to revive the NEU blog and to consider a “twitter” account.

We also sponsor an ASPET mixer at the Society of Neuroscience (SfN) to recruit new members (see above) and provide a place for ASPET members to meet. This is advertised in the SfN program and on the SfN webpage and to the ASPET membership. We encourage ASPET members to pass on word of this event to their neuroscience colleagues.

E. Executive Committee Communications:

(Include dates of executive committee conference calls and names of committee members attending).

The NEU Executive Committee had a committee conference call on September 12th 2017. Members on the teleconference were John Traynor, Stella Tsirka, David Sibley, Luisa Torres, Stewart Clark, Erin Calipari, Kelly Standifer, Ryan Drenan, Catalin Filipeanu, Sara Jones, Michael Wood, Carrie Ferrario and Melodi Bowman. Carla Burns (ASPET Office was in attendance). Dan Morgan sent apologies and Habineh Khoshbouei was unable to attend due to hurricane Irma. We plan to have such conference calls on a three month basis or more often if needed.

Our Chair and secretary/treasurer positions are elected for two years. We hold our elections one year early so there is a chance for the new incumbents to shadow the present holders of each office.

F. Upcoming Projects, Events, Ideas and Proposals:

We are looking into changing our postdoctoral competition symposium and our Independent investigator symposium to give more time for symposia on innovative topics relevant to the work and mission of the NEU division.

G. Other:

The NEU Division budget for 2017 is \$18,947. This includes \$2000 supplied by Council to support the ASPET mixer at SfN. We are aiming to be at steady state with no surplus and no deficit by the end of 2017.

We are grateful for the additional monies (\$2000) provided by Council to fund the ASPET mixer at SfN. We feel this is an important event to increase membership of

ASPET and to provide a venue for ASPET members to meet at SfN. Over the last two years approximately 100 neuroscientists have attended the event.

Name of person preparing report: John Traynor

Date of submission: September 14th 2017