

# **SfN Central Ohio Chapter Annual Meeting**

## **Schedule of Events**

Grass Traveling Lectureship.....4:00 pm  
Dr. Mark Tuszynski  
Blackwell Inn - Ballroom A

Reception and Poster Presentation.....5:15 pm  
Pfahl Hall - 2<sup>nd</sup> Floor

Dinner and Chapter Meeting.....6:15 pm  
Pfahl Hall - 3<sup>rd</sup> Floor



## About the Speaker

Dr. Tuszynski is a Professor of Neuroscience and Director of The Center for Neural Repair at UCSD. His research is on cortical plasticity, cell death in the brain (including some exciting NGF clinical trials), and axonal plasticity/regeneration in the spinal cord.

Some recent citations:

1. Conner JM, Culberson A, Packowski C, Chiba A, Tuszynski MH. Lesions of the basal forebrain cholinergic system impair task acquisition and abolish cortical plasticity associated with motor skill learning. *Neuron*, 2003, 38:819-829.
2. Jones LL, Sajed D, Tuszynski MH. Axonal regeneration through regions of CSPG deposition after spinal cord injury: A balance of permissiveness and inhibition. *J Neurosci*, 2003, in press.
3. Jones LL, Yamaguchi Y, Stallcup WB, Tuszynski MH. NG2 is a major chondroitin sulfate proteoglycan produced after spinal cord injury and is secreted by macrophages and oligodendrocyte progenitors. *J Neurosci*, 2002, 22:2792-2803.
4. Tuszynski MH. Gene therapy for neurodegenerative disorders. *The Lancet Neurology*, 2002; 1:51-57.
5. Conner JM, Darracq MA, Roberts J, Tuszynski MH. Non-tropic actions of neurotrophins: Subcortical NGF gene delivery reverses age-related degeneration of primate cortical cholinergic innervation. *Proc Nat Acad Sci*, 2001; 98:1941-1946.
6. Weidner N, Ner A, Salimi N, Tuszynski MH. Spontaneous corticospinal axonal plasticity and functional recovery after adult CNS injury. *Proc Nat Acad Sci*, 2001; 98:3513-3518.

## Poster Presentations

Daniel Ankeny

Vaccination with myelin-antigens exacerbates loss of axotomized facial motor neurons in mice

Christine Beattie

Zebrafish *topped* is Required for Ventral Motor Axon Guidance

Anthony Brown

The 'Stop and Go' Model of Slow Axonal Transport: Experiments *In Silico*

Greg Butcher

Ribosomal S6 Kinases couple the MAPK cascade to expression of the core clock gene *mPer1*

Randy Christensen

Characterization of a Mild Excitotoxic Injury in the Rat Spinal Cord White Matter

Education Outreach Group

Greg Butcher and Petra Williams

Society for Neuroscience Central Ohio Chapter Poster

John Gensel

Anatomical Evaluation of Damage Produced by Graded Unilateral Cervical Spinal Cord Contusion Injury in Rats

Kristina Kigerl

Lesion Development and Neuroinflammation in Spinal Injured Mice: Correlations with Genetic Susceptibility to CNS Excitotoxicity and Autoimmunity

Doug Kohn

Proteomic Analysis of the Brains from Mice that Lack a Growth Hormone Receptor

## Bo Young Lee

Activity-Dependent Neuroprotection and Creb: Kinase Coupling, Stimulus Intensity, and Temporal Regulation of Creb Phosphorylation

## Thong Ma

Free 3-nitrotyrosine Potentiates Dopamine Mediated Neuronal Cell Death

## John Oberdick

The Purkinje Cell-Specific GoLoco Domain Protein, L7/Pcp-2, is a modulator of Ca<sub>v</sub>2.1 (a<sub>1a</sub>, P/Q-type) Ca<sup>2+</sup> Channel

## Leah Pyter

Photoperiod-Evoked Neuroplasticity: Short Days Reduce Spatial Learning and Memory Performance in Adult Male *Peromyscus leucopus*

## Atsuko Uchida

Arrival, reversal and departure of neurofilaments at the tips of growing axons

## Yanping Yan

Neurofilament proteins are transported along axons in the form of single polymers

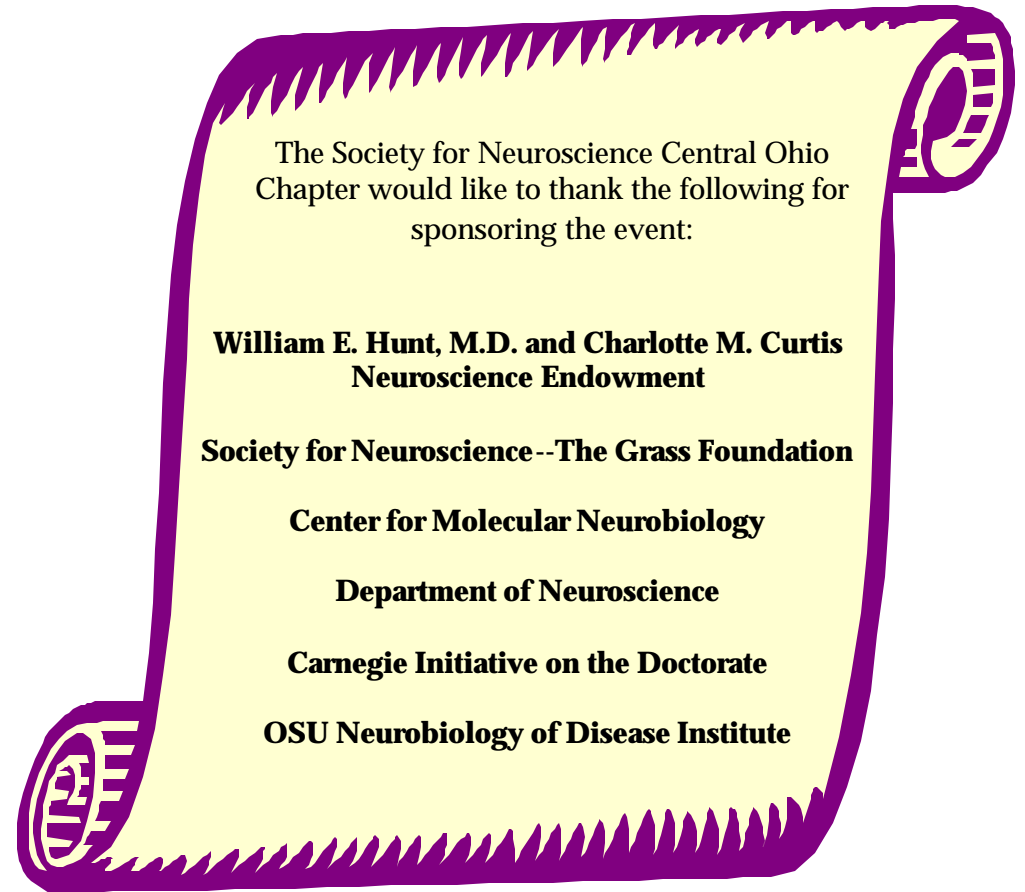
## Tae Young Yune

JNK3 is required for p75-dependent death of neurons and oligodendrocytes after CNS trauma

## Business Meeting Agenda

1. Sponsorship
  - Society for Neuroscience/Grass Foundation
  - William E. Hunt & Charlotte M. Curtis Neuroscience Endowment
  - Center for Molecular Neurobiology
  - Dept. of Neuroscience
  - The OSU Neurobiology of Disease Institute
  - Carnegie Initiative on the Doctorate
  - Neuroscience Graduate Studies Program (NGSP)
  
2. Chapter History (largely thanks to Jacque Bresnahan)
  - Chapter formed in early 70's
  - Meetings once/mo.
  - Officers included (many of whom were on the original SCI-PPG that began in early 70's):
    - Leopold Liss (Neuropathology)
    - Bill Hunt (Neurosurgery)
    - Elizabeth and Sam Corson (Psychiatry: worked on autonomic phenotypes in learning using classical conditioning)
    - Norman Allen, Nancy Clendenon (Neurology: Allen lab worked on neurochemistry)
    - Leo Lipitz (Biophysics: retinal processing?)
    - Don and Pat Meyer (Psychology)
    - Lloyd Horrocks (Neurochemistry)
    - George Martin & Jim King (Neuroanatomy)
    - Jacque Bresnahan, Georgia Bishop, Helen Cooke, Gopi Tejwani
  - Last official meeting was in 1991
  - "Chapter" activities since then have included
    - a. Grad Student Travel Award Nominations
      - i. 2001: Greg Emch, Rick Roger's lab
      - ii. 2002: Gretchen Neigh-McCandless, Randy Nelson's lab
      - iii. 2003: Tony Harrington, Sung-Ok Yoon's lab
      - iv. 2004: Greg Butcher, Karl Obrietan's lab
  
    - b. Grass Traveling Lectureship

- i. Moses Chao, 2002
    - ii. Mark Tuszynski, 2004
  - c. BAW Spring 2004
  - d. Chapter Organizational Meeting held October 8, 2003
    - Officers selected
      - i. John Oberdick, Neuroscience, President and Representative
      - ii. Ben Givens, Psychology, Vice President
      - iii. David Beversdorf, Neurology, Secretary
      - iv. Christine Beattie, Neuroscience, Treasurer
  - e. Annual Meeting 2004
    - i. OSU SfN members = 114
    - ii. Active members = 60?
    - iii. Diversity of membership
- 3. Dues
  - Purpose
    - Dinner/reception at annual meeting
    - Travel support for more students
  - How much?
    - \$60/faculty (w/grant; \$30 if currently unfunded)
    - \$20/student-postdoc
    - 31 X \$60 = \$1860 from faculty, 22 X \$20 = \$440 from students/postdocs = \$2300 total
  - Could dues be paid from grants? Agency account
- 4. News
  - Greg Butcher awarded an SfN Travel Award
  - BAW (Randy Nelson)
  - High-School Outreach (Petra Williams and Greg Butcher)
- 5. Thank-you's
  - Keri Knowles
  - Cheryl Yoder



The Society for Neuroscience Central Ohio Chapter would like to thank the following for sponsoring the event:

**William E. Hunt, M.D. and Charlotte M. Curtis  
Neuroscience Endowment**

**Society for Neuroscience--The Grass Foundation**

**Center for Molecular Neurobiology**

**Department of Neuroscience**

**Carnegie Initiative on the Doctorate**

**OSU Neurobiology of Disease Institute**