

*The Labile Brain: Neuroplasticity
Across the Lifespan*

Preliminary Program

**25th Annual Symposium of the
Central Virginia Chapter of the
Society for Neuroscience (CVCSN)**



Virginia Tech Carilion Research Institute

Roanoke, VA



MARCH 7-8, 2013



MEETING AT A GLANCE

The Labile Brain: Neuroplasticity Across the Lifespan 25th Annual Symposium of the Central Virginia Chapter of the Society for Neuroscience (CVCSN)

* Oral Presentations will take place in M106 of the Virginia Tech Carilion School of Medicine and Research Institute Building.*

A Poster Session and Reception will take place in the First Floor Atrium on Thursday afternoon. Posters should be hung prior to the meeting and remain up until after lunch on Friday.

Thursday March 7, 2013

1:00-2:00PM Registration Atrium

2:00-2:10 Welcome

2:10-2:30 Postdoctoral Presentation

Kenneth Kishida, Ph.D., Virginia Tech Carilion Research Institute, Roanoke, VA

"Sub-second measurements of dopamine release in humans undergoing DBS electrode implantation for treatment of Parkinson's disease"

2:30-3:00 **Josh Burk, Ph.D.**, College of William and Mary, Williamsburg VA

"Cortical cholinergic mechanisms and attention"

3:00-4:00 **Keynote Lecture, Darwin Berg, Ph.D.**, University of California San Diego, San Diego, CA

"Nicotinic Control of Neural Nets"

4:00-6:00 **Poster Session and Reception in the 1st Floor Atrium**

Friday March 8, 2013

8:00 – 9:00 AM Registration Atrium/Continental Breakfast VTC Cafe

9:00-9:30 **Thomas Krahe, Ph.D.**, Virginia Commonwealth University, Richmond VA

"Experience-dependent plasticity in the visual thalamus of the mouse"

9:30-10:00 **Alev Erisir, M.D., Ph.D.**, University of Virginia, Charlottesville VA

"Structure of Plastic and Stable Synapses"

10:00-10:30 Refreshment Break

10:30-11:30 **Keynote Lecture, Marina Wolf, Ph.D.**, Chicago Medical School, Chicago, IL

“Plasticity of group I mGluR-AMPA interactions in the nucleus accumbens during cocaine withdrawal: basis for anti-craving drugs?”

11:30-12:00 Annual Meeting and Award Presentations

Noon-1:00 PM Lunch VTC Cafe

1:00-2:00 Postdoctoral Presentations

Noel Derecki, Ph.D., University of Virginia, Charlottesville VA

“Ameliorating pathology in an *Mecp2*-null mouse model of Rett syndrome: monocytes take center stage”

Quentin Fischer, Ph.D., Virginia Tech Carilion Research Institute, Roanoke VA

“Stimulation pattern differentially affects synaptic plasticity outcome in adult rats with and without mild traumatic brain injury”

Edward (Greg) Hawkins, Ph.D., Virginia Commonwealth University, Richmond VA

“Ethanol-induced hypercontraction requires acetylcholine receptor function and is prolonged by mutations in the *eat-6* gene”

2:00-2:30 Rosalyn Moran, Ph.D., Virginia Tech Carilion Research Institute, Roanoke VA

“Brain connectivity in aging: theory and practice ”

2:30-3:00 Refreshment Break VTC Cafe

3:00-3:30 Jamie Tyler, Ph.D., Virginia Tech Carilion Research Institute, Roanoke VA

“Modulation of Neural Circuit Activity by Mechanical Energy”

3:30-4:30 Keynote Lecture, Alvaro Pascual-Leon, M.D., Ph.D., Harvard Medical School, Boston MA

“Characterizing and guiding human brain plasticity and network dynamics”

4:30-5:00 closing remarks