

## Stem Cell Seminar



### **Dr. Wenbin Deng, PhD**

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**Date:** Monday, June 15, 2015

**Time:** 12 noon to 1:15pm

**Location:** Hunter College The West Building, Room 511

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The central nervous system (CNS) has two major cell types: neurons and glia. Our view about how the CNS works has been traditionally neuro-centric, even though glial cells significantly outnumber neurons. Emerging evidence indicates that glial cells are critical for many normal and disease processes in the CNS. Using animal models (genetically-modified or surgically- or chemically-induced disease models), human-induced pluripotent stem cells (iPSCs) and iPSC-based models of CNS disorders, my lab conducts research on neuron-glia interactions and CNS disorders. In my talk, I will discuss our recent results on (1) neuron-glia communications and excitotoxic, oxidative or inflammatory mechanisms of CNS injury; (2) stem cell differentiation toward neuronal and glial lineages for CNS regeneration, nano-medicine and drug discovery studies; and (3) relevance to translational science in the neurologic/brain disorder therapeutic area.

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