

**Duke Psychiatry and Behavioral Sciences Grand Rounds**

*presents*

**“Real-time *in vivo* Measurements of Neurotransmitters:**

**A Fundamental Analysis of Serotonin’s Neurochemistry as a Biomarker for Antidepressant Efficacy”**

**December 4, 2014**

**12:00 - 1:00 pm, Duke North Lecture Hall 2002**

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| **Presenter: Parastoo Hashemi, MSci, PhD**  Assistant Professor of Chemistry  Wayne State University  Dr. Hashemi received an MSci in Chemistry from King’s College in London in 2004. She carried out her PhD under Dr. Martyn Boutelle in the Department of Biomedical Engineering in Imperial College, London and graduated in 2007. She performed her post-doc with Professor Mark Wightman in the Department of Chemistry at UNC Chapel Hill from 2007-2011 and started her independent position in the Department of Chemistry at Wayne State University in 2011. She has pioneered a unique set of analytical tools that define her unique interdisciplinary program of probing the brain’s chemistry with ultra-microelectrodes. |
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**Objectives:  By the end of the session participants should be able to:**

1. **Name at least 4 characteristics of voltammetry that make it an ideal tool for *in vivo* neurochemical analyses.**
2. **Identify at least 3 novel mechanistic insights into serotonin neurochemistry.**
3. **Describe the mechanisms by which the efficacy of commercially available antidepressants can potentially be predicted neurochemically in the pre-clinical stages of drug development.**

Accreditation

The Duke University School of Medicine is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

Credit Designation

The Duke University School of Medicine designates this live activity for a maximum of 1.0 *AMA PRA Category 1 credit(s)* TM.  Physicians should only claim credit commensurate with the extent of their participation in the activity.

CE Credit

Psychiatry Grand Rounds are co-sponsored by the North Carolina Psychological Association and Duke University School of Medicine. The North Carolina Psychological Association is approved by the American Psychological Association to sponsor continuing education for psychologists.  The North Carolina Psychological Association maintains responsibility for this program and its content.  This workshop is offered for 1 hour of continuing education credit.

To receive credit, you must be present for the entire workshop, and you must sign the sign-in and sign-out sheets. No credit will be given to participants who are more than 15 minutes late at the beginning of the workshop. No credit will be given to participants who leave before the close of the workshop.

There are no fees to participants who attend grand rounds.

**To access previously recorded lectures on Mediasite, please visit the Department of Psychiatry & Behavioral Sciences blog (requires duke NetID):** [**http://sites.duke.edu/dukepsychiatry/grand-rounds/**](http://sites.duke.edu/dukepsychiatry/grand-rounds/)