

**Submitted on** Friday, 3/20/2015 7:01 PM

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**I am a current member of the ASNR (Symposium organizers must be ASNR members):**

Yes

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**Title of Symposium:** Novel Applications of FDA Approved Drugs in Neurologic Rehabilitation

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**Description of Submitted Symposium (please limit to 2000 characters):** There are relatively few new medications available to assist in the rehabilitation of persons who have sustained a major neurological illness or injury, such as a stroke or spinal cord injury. There are, however, several classes of FDA approved drugs designed for other applications that show promise as being potentially therapeutically beneficial in neurologic rehabilitation.. Many of these drugs have not received significant interest from industry because they may not show significant prospects for generating financial return. This symposium will address the potential uses of these drugs, and review the lessons learned from their initial application. We will use these findings to make recommendations for potential testing in new clinical trials, and for new drug developments centered around these drug classes

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**Length of time required for symposium?:** 90 minutes

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**Additional Presenters (Limited to 4 additional presenters, list full name and email address)**

**Please Note: Any Non-member speakers must receive prior approval from the Program**

**Chair.:** Rajiv Ratan MD PhD Raj Monica Gorassini PhD [mag4@ualberta.ca](mailto:mag4@ualberta.ca) Sunghee Cho PhD [suc2002@med.cornell.edu](mailto:suc2002@med.cornell.edu) George Hornby PT PhD [g-hornby@northwestern.edu](mailto:g-hornby@northwestern.edu)

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**What is the role of each presenter?:** Rajiv Ratan will present an overview of drug availability and use in neurorehabilitation, and review classes of drugs that have had limited exploration to date Monica Gorassini will review the role of monoamine receptors and drugs that act on them in relation to spasticity in spinal cord injury. George Hornby will review findings regarding the role of serotonin agents in mediating locomotion in persons with spinal cord injury or stroke. Sunghee Cho will show evidence that daidzein, a soy isoflavone, increases genes that are involved in the genetic program for cholesterol homeostasis, especially ApoE, and synaptic elements.

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**Objective 1:** To understand the major classes of drugs used for enhancing functional recovery in neurologic rehabilitation, and to examine their benefits and limitations

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**Objective 2:** To know about new drug classes, particularly those linked to monoamines as tools for promoting locomotion or for managing spasticity in neurologic disorders.

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**Objective 3:** To understand the role of monoamines in mediating spasticity in persons with spinal cord injury

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**Target Audience:** Neurologists, Psychiatrists, Residents, Physical Therapists, Neuroscientists and Pharmacologists

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**Type of Educational Activity:** Symposia

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**Lecture - oral didactic presentation:** No

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**Forum - open dialogue and discussion among all participants:** No

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**Panel Discussion - 3 to 6 faculty engaged in dialogue:** Yes

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**Please explain:** There is a need for initial description and some didactic presentation here, but this can be followed by more informal discussion and review

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**Please explain:** Limited drug choices in neurologic rehabilitation

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**How do you know the practice gap exists? (You must answer this question for your symposium to be considered):** Consensus of Experts

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**Please describe:** there is wide acceptance that there are limited drug choices in neurologic rehabilitation

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**What Desirable Physician Attribute(s) will your symposium address? (Select all that apply):** Patient care, Medical knowledge

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**At the end of the educational session, what will your learners have gained? (check all that apply - you must answer this question for your symposium to be considered):** Knowledge (information)

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**Please indicate any other needs for the symposium.:**

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**By clicking "submit form" below, I agree to adhere to all deadlines and requirements as set forth by the ASNR Executive Office and understand if I do not adhere to these deadlines and requirements I may be disqualified from presenting at the meeting.:**

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**Line:**

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**Response ID:** 1570