



7th International Symposium on  
**GAIT & BALANCE IN MULTIPLE SCLEROSIS**  
Neuroplasticity and Rehabilitation in MS

**SEPTEMBER 8TH & 9TH, 2017**

Hilton Portland & Executive Tower • Portland, Oregon

This conference focuses on how neuroplasticity influences and underlies rehabilitation in MS. The morning session will provide an introduction to neuroplasticity and motor learning in rehabilitation and describe approaches, including behavioral and imaging paradigms, for measuring neuroplasticity. The afternoon session will focus on applications of neuroplasticity to rehabilitation of gait and balance in MS. The conference will end with a clinically oriented session with case studies and videos demonstrating the application of neuroplasticity to the rehabilitation of gait and balance in patients with MS.

#### SYMPOSIUM OBJECTIVES

After attending this symposium, attendees will be able to:

- Describe how neuroplasticity underlies functional changes in neurorehabilitation
- Describe how neuroplasticity can be measured, using imaging technologies, behavioral paradigms, and non-invasive brain stimulation
- Describe mechanisms of adaptive neuroplasticity, including regrowth of synapses, dendritic arbors and axonal processes, and reorganization of neuronal networks
- Understand the clinical research supporting specific approaches to optimize adaptive neuroplasticity in MS
- Apply research findings to clinical rehabilitation interventions to improve motor function in people with MS

#### WHO SHOULD ATTEND

Multiple sclerosis clinicians or researchers, including:

- physicians (neurologists, psychiatrists)
- physical therapists
- occupational therapists
- rehabilitation scientists
- nurses
- physician assistants

FOR MORE INFORMATION VISIT: [www.ohsubrain.com/msgait](http://www.ohsubrain.com/msgait)

**OREGON HEALTH & SCIENCE UNIVERSITY**  
OHSU Multiple Sclerosis Center in collaboration with  
VA Portland Health Care System – MS Center of Excellence West



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**AGENDA - FRIDAY EVENING SEPTEMBER 8, 2017**

6 – 9 pm Poster presentations and reception with opening remarks

Michelle H. Cameron, MD, PT, MCR

*Oregon Health & Science University and VA Portland Health Care System – Portland, OR*

**AGENDA - SATURDAY SEPTEMBER 9, 2017**

8:00 am Registration & continental breakfast

**MORNING SESSIONS**

8:30 am Introduction and welcome

Kathleen M. Zackowski, PhD, OTR, MSCS

*National Multiple Sclerosis Society – New York, NY*

*Kennedy Krieger Institute and Johns Hopkins*

*University – Baltimore, MD*

8:45 am Neural plasticity: foundation for  
neurorehabilitation

Jeff A. Kleim, PhD

*Arizona State University – Tempe, AZ*

9:35 am Assessing neuroplasticity via neuroimaging  
with magnetic resonance imaging and  
transcranial stimulation

Brett W. Fling, PhD

*Colorado State University – Fort Collins, CO*

10:25 am BREAK

10:45 am Motor learning strategies and measurement

Sook-Lei Liew, PhD, OTR/L

*University of Southern California – Los Angeles, CA*

11:50 am Plasticity-based technologies in  
neurorehabilitation: evidence and prospects  
for treatment

Randolph J. Nudo, PhD

*University of Kansas Medical Center –*

*Kansas City, KS*

12:45 pm LUNCH

**AFTERNOON SESSIONS**

1:45 pm Functional and structural brain plasticity  
in MS

Luca Prosperini, MD, PhD

*Sapienza University – Rome, Italy*

2:35 pm Neuroplasticity and motor learning

Lara Boyd, PT, PhD

*The University of British Columbia –*

*Vancouver, BC*

3:25 pm BREAK

3:45 pm Clinical strategies to enhance  
neuroplasticity in persons with MS

Herb Karpatkin, PT, DSc, NCS, MSCS

*Hunter College – New York, NY*

4:50 pm Final words

Gail L. Widener, PT, PhD

*Samuel Merritt University – Oakland, CA*

5:30 pm End of program

**CONFERENCE STEERING COMMITTEE**

Michelle H. Cameron, MD, PT, MCR; Gail L. Widener, PT, PhD; Kathleen M. Zackowski, PhD, OTR, MSCS

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## CALL FOR POSTERS

Please send abstracts on topics related to gait and balance in multiple sclerosis to Gail Widener at [gwidener@samuelmerritt.edu](mailto:gwidener@samuelmerritt.edu) by June 2nd, 2017 for review.

**Abstracts must meet the following criteria:**

- A maximum of 300 words
- Title contain a maximum of 150 characters (including spaces)
- Authors names (last name followed by initials separated by commas) and affiliations must follow the title
- Research abstracts must include the following headings: Background and Purpose, Methods, Results, and Discussion
- Case report abstracts must include the following headings: Background and Purpose, Case Description, Outcomes, and Conclusion
- Use 12 point font, single spaced

*\* The top five posters from trainees will be selected to receive waived symposium registration.*

## CONTINUING MEDICAL EDUCATION

### ACCREDITATION

The School of Medicine, Oregon Health & Science University (OHSU), is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

*\* All symposium attendees will be provided with a certificate of attendance for hours attended.*

### PHYSICIAN CREDIT

American Medical Association: Oregon Health & Science University School of Medicine designates this live activity for a maximum of 6.5 *AMA PRA Category 1 Credits™*. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

## HOTEL ACCOMODATIONS

Hilton Portland & Executive Tower  
921 SW Sixth Avenue  
Portland, OR 97204

Local: 503-226-1611  
Toll free: 1-800-HILTONS

Guests call the toll free number 1-800-HILTONS and reference "7th International Gait & Balance Symposium" to receive the group rate for this event.

*\*A discounted room rate for a Standard Room starting at \$169/ night plus tax is being provided until the cut-off date of August 9, 2017 OR until the group block is sold-out, whichever comes first.*

## REGISTRATION

**\$170 Regular**

**\$136 Before July 15 (discounted 20%)**

**\$100 Trainee, OHSU and VA employee**

*\* Physician CME credit memo \$25 extra.*

Registration fee includes poster reception with hors d'oeuvres and drinks, and symposium with continental breakfast, breaks, and lunch.

Space is limited.

To register visit [www.ohsubrain.com/msgait](http://www.ohsubrain.com/msgait)

## CONTACT

For more information visit [www.ohsubrain.com/msgait](http://www.ohsubrain.com/msgait). For questions contact Dawn Christensen at 503 494-7661 or email [chrisdaw@ohsu.edu](mailto:chrisdaw@ohsu.edu)

**Oregon Health & Science University**

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