



DAY 1, JUNE 30 (MONDAY) – Auditorium at the Center for Biotechnology and Life Sciences (CBLS #100)

08:00 – 17:00 Exhibitors, CBLS Lobby

Chair of the Organizing Committee: Mariusz Furmanek, PhD, PT
Dean of the College of Health Sciences: Patrick Vivier, MD, PhD
President of the University of Rhode Island: Marc B. Parlange, PhD
President of the ISMC: Gene Tunik, PhD, PT

09:40 – 10:05 Jonathan R. Wolpaw, MD: *Heksor: The CNS substrate of a skilled behavior*

10:05 – 10:45 Coffee break, CBLS Foyer

11:35 – 12:00 **David A. Rosenbaum, PhD:** *Preparedness in thought and action*

12:00 – 13:00 Lunch – Mainfare Dining Hall (Hope Commons, 19 Butterfield Rd)

13:00 – 15:00 POSTER SESSION I: “Motor control theory and mechanisms” – CBLF Foyer

16:40 – 16:50 Q&A

17:30 – 20:00 Welcome Reception, CBLs lower lobby

07:30 – 12:00 Registration, CBLS Lobby

07:30 – 08:30 Continental Breakfast, CBLS Foyer

08:30 – 08:45 Yoga Session I: “Breathwork for mindfulness”, CBLS #010

08:00 – 16:00 Exhibitors, CBLS Lobby

PART III: ADVANCES IN UNDERSTANDING NEUROPHYSIOLOGICAL MECHANISMS

Chairs: Alaa A. Ahmed, PhD & Mark L. Latash, PhD

09:00 – 09:25 **Stuart N. Baker, PhD:** *Relative contributions of corticospinal and reticulospinal tracts to control of the primate upper limb*

09:25 – 09:50 **Reza Shadmehr, PhD:** *The potent vectors of the cerebellum*

09:50 – 10:15 **Mathew Yarossi, PhD:** *Measuring corticospinal recruitment gain with TMS*

10:15 – 10:45 Coffee break, CBLS Foyer

Chairs: Daniela Corbetta, PhD & Jonathan R. Wolpaw, MD

10:45 – 11:10 **Cristian Cuadra, PhD, PT:** *The dual roles of vestibulospinal reflexes: excitatory and inhibitory influences on limb muscle activity*

11:10 – 11:35 **Richard E.A. van Emmerik, PhD:** *Locomotor coordination, shock attenuation and dynamic visual acuity*

11:35 – 12:00 **2025 Early Career Award Presentation**

Greg Pearcey, PhD, CSEP-CE: *Decoding human motoneuron firing behaviour illuminates diversity in movement control*

12:00 – 13:00 Lunch – Mainfare Dining Hall (Hope Commons, 19 Butterfield Rd)

12:10 – 13:00 ISMC Board Meeting, CBLS #152

PART IV: MOTOR DISORDERS MECHANISMS AND REHABILITATION

Chairs: Ela Plow, PhD & Raoul M. Bongers, PhD

13:00 – 13:25 **Michael W. Jakowec, PhD:** *Astrocytes bridging motor behavior and synaptic plasticity in Parkinson's Disease*

13:25 – 13:50 **Brooke Dexheimer, PhD, OTD, OTR/L:** *Multimodal approaches for identifying lateralized motor learning mechanisms and their implications in early Parkinson's Disease*

13:50 – 14:15 **Giselle M. Petzinger, MD:** *The association of cognitive and motor performance in Parkinson's Disease: understanding the role of cerebellum and related circuitry*

14:15 – 14:45 Coffee break, CBLS Foyer

Chairs: Monica A. Perez, PhD & Danielle Piscitelli, PhD, PT

14:45 – 15:10 **Aiko K. Thompson, PhD:** *Non-invasive neurobehavioral training to improve motor behaviors and functions of the targeted pathway in CNS disorders*

15:10 – 15:35 **Evangelos A. Christou, PhD:** *Ataxic symptoms in essential tremor: can DBS help?*

15:35 – 16:00 **Andrea L. Behrman, PhD, PT, FAPTA:** *The lens matters: walking recovery after pediatric spinal cord injury*

16:00 – 16:10 **Q&A**

Free time (Newport, Narragansett, Providence)

Dinner on your own (make sure to make a reservation)

DAY 3, JULY 2 (WEDNESDAY) – Auditorium at the Center for Biotechnology and Life Sciences (CBLS #100)

07:30 – 12:00 Registration, CBLS Lobby (Poster setup)

07:30 – 08:00 Yoga Session II: “Body awareness” (outdoor in front of the CBLS)

07:30 – 08:45 Continental Breakfast, CBLS Foyer

08:00 – 15:00 Exhibitors, CBLS Lobby

PART V: RECOVERY OF MOTOR FUNCTION

Chairs: Brooke Dexheimer, PhD, OTD, OTR/L & Michael Vesia, PhD

09:00 – 09:25 **Mindy F. Levin, PhD, PT:** *Translation of motor control principles to functional movement improvement after stroke*

09:25 – 09:50 **Monica A. Perez, PhD:** *Strategies to maximize functional restoration following spinal cord injury*

09:50 – 10:15 **Danielle Piscitelli, PhD, PT:** *Motor control as a pathway to recovery in neurorehabilitation*

10:15 – 10:45 Coffee break, CBLS Foyer

Chairs: Andrea L. Behrman, PhD, PT, FAPTA & Michael W. Jakowec, PhD

10:45 – 11:10 **Shirley Handelzalts, PT, PhD:** *Understanding lower-limb coordination deficits to facilitate gait recovery after stroke*

11:10 – 11:35 **Ela Plow, PhD:** *The undamaged motor cortex in stroke: friend or foe?*

11:35 – 12:00 **Manuel F. DaSilva, MD:** *Hand control: intersection of biomechanics, motor control, and implications for clinical practice*

12:00 – 13:00 Lunch, CBLS Foyer

12:15 – 13:15 Journal of Motor Control Board Meeting, CBLS #152

13:00 – 15:00 **POSTER SESSION II** “Motor impairments and rehabilitation” – CBLS Foyer

15:00 – 15:30 **2025 Bernstein Prize Presentation**

Introduction: Mark L. Latash, PhD

T. Richard Nichols, PhD: *Determinants of the force-length characteristic*

15:30 – 15:35 **Annual General Meeting Presentation** – President of the ISMC: Gene Tunik, PhD, PT

15:35 – 15:40 **Best Poster Presentation Awards**

PART VI: HISTORY AND FUTURE OF THE EQUILIBRIUM-POINT HYPOTHESIS

(Tribute to Anatol G. Feldman, PhD)

15:40 – 15:50 David A. Rosenbaum, PhD

15:50 – 16:00 Mindy F. Levin, PhD, PT

16:00 – 16:10 Gene Tunik, PhD, PT

16:10 – 16:20 Danielle Piscitelli, PhD, PT

16:20 – 16:30 Raoul M. Bongers, PhD

16:30 – 16:40 Mark L. Latash, PhD

16:40 – 16:50 **Concluding statement by Anatol G. Feldman, PhD**

18:30 – 19:00 Aperitif (Mosby Center, 230 S Ferry Rd)

19:00 – 21:00 Closing dinner, (Mosby Center, 230 S Ferry Rd), dress code: smart casual