

SEMINAR

# NEUROMUSCULAR SCIENCES RESEARCH FOR HEALTH AND HUMAN PERFORMANCE

Presentation of Research Studies on Neuromuscular Function Using Advanced Methodologies:  
Transcranial Magnetic Stimulation, Evoked Potentials, EMG, Variability of Biological Signals,  
Electroencephalography, Dynamometry, Accelerometry, Ultrasonography.

COORDINATION:  
PEDRO PEZARAT CORREIA & SANDRO FREITAS



05.07.2023 // 14H00 - 19H00  
FACULTY OF HUMAN KINETICS (FMH)

FREE EVENT,  
BUT REGISTRATION REQUIRED:



<https://bit.ly/43M4Up1>

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UNIVERSIDADE  
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NEUROMUSCULAR  
RESEARCH LAB

# PROGRAM

- 14h00 - 14h15 Opening | Pedro Pezarat Correia, Sandro R. Freitas
- 14h20 - 15h00 Transcranial Magnetic Stimulation: Research Application and Technical Considerations  
| Duane Button
- 15h05 - 15h30 Neural Adaptations to Strength Training: Insights From Neuroscience and Human Movement  
Variability - Preliminary Results | João Oliveira
- 15h35 - 16h00 From the Basics to the Application of Hoffman Reflex in Neurophysiological Research:  
The Analgesic Effects of Acute Exercise and Long-Term Training Through Metaboreflex  
Desensitization | André Gonçalves
- 16h05 - 16h30 Using Eletromyography to Study Neuromuscular Coordination Adaptations to Strength Training  
| Paulo Santos
- 16h30 - 17h00 Break
- 17h00 - 17h25 Concurrent Training: Unraveling the Interference Effect on Neuromuscular Adaptations  
| Miguel Gomes
- 17h30 - 17h55 Does Exercise That Induces Muscle Damage Also Change the Peripheral Nerves Properties?  
| Dorina Lungu
- 18h00 - 18h35 Brain-muscle Connection During Rapid Knee Movements in (Semi)Professional Soccer  
Players with vs. No History of Hamstring Injury | José Pedro Correia
- 18h40 Closing

# SPEAKERS



**ANDRÉ GONÇALVES**  
Faculty of Human Kinetics, University of Lisbon



**DORINA LUNGU**  
Faculty of Human Kinetics, University of Lisbon



**DUANE BUTTON**  
Professor and Researcher of Memorial University (Canada)



**JOÃO OLIVEIRA**  
Faculty of Human Kinetics, University of Lisbon



**JOSÉ PEDRO CORREIA**  
Faculty of Human Kinetics, University of Lisbon



**MIGUEL GOMES**  
Faculty of Human Kinetics, University of Lisbon



**PAULO SANTOS**  
Faculty of Human Kinetics, University of Lisbon



**PEDRO PEZARAT CORREIA**  
Faculty of Human Kinetics, University of Lisbon



**SANDRO FREITAS**  
Faculty of Human Kinetics, University of Lisbon