

The spinal cord: Basic research to clinical practice.

May 21, 2019, Marseille.

Institut Neurosciences Timone
27, Bd Jean Moulin

8h30-9h00: Registration Check in
9h00-9h10: Welcome and Introduction

Keynote Speakers:

9h10-9h50: **Gareth Miles** (University of St Andrews) "Functional analyses of human iPSC-based models of ALS reveal potential pathogenic mechanisms"

9h50-10h30: **John Martin** (City College of New York) "Modulating neural activity to repair the corticospinal system after spinal cord injury"

Motor session

10h50-11h15: **Nicolas Wanaverbecq** (Marseille, INT) "Do CSF contacting neurons modulate spinal motor network in the mouse?"

11h15-11h40: **Patrick Decherchi** (Marseille, ISM) "Biomaterials for spinal cord repair"

11h40-12h05: **Pierre Hugue Roche** (Marseille, APHM) "Early management of spinal cord injury - where do we stand"

12h05-12h30: **Marjorie Kerzoncuf** (Marseille, INT) "Management of spasticity after spinal cord injury: current techniques and future directions".

Sensory session

16h10-16h35 : **Cyril Rivat** (Montpellier, Institut des neurosciences). Functional interaction between μ opioid and FLT3 receptors in sensory neurons produces analgesic tolerance and hyperalgesia

16h35-17h00 : **Emmanuel Bourinet** (Montpellier, IGF) Low threshold voltage gated calcium channels regulates pathological integration of neuropathic pain in spinal dorsal horn circuits.

17h00-17h25: **Matilde Cordero-Erausquin** (Strasbourg, INCI). Implication of the cortico-spinal pathway in sensory-motor control.

17h25-17h50: **Aziz Moqrich** (Marseille, IBDM). Functional significance of primary sensory neurons diversity: A focus on chronic pain

18h00: Wine and Cheese.

Imaging session

14h00-14h25 : **Christophe Leterrier** (Marseille, INP) "The nano-architecture of the axonal cytoskeleton revealed by superresolution imaging».

14h25-14h50 : **Hervé Rigneault** (Marseille, Institut Fresnel) "Coherent Raman imaging: techniques and applications in neurosciences."

14h50-15h15: **Franck Debarbieux** (Marseille, INT) "Intravital dynamic imaging of neuroinflammatory cellular events following implantation of a neuroprosthesis in the traumatized spinal cord"

15h15-15h40: **Guillaume Duhamel** (Marseille, CRMBM) "In vivo measurement of the myelin by inhomogeneous magnetization transfer (ihMT)".

Registration contact:

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The scientific committee:

Frédéric Brocard, Virginie Callot, Aziz Moqrich and Geneviève Rougon

Thanks:

