

Monday, March 4, 2024 - h. 12
Aula Ranise, DIFAR
V.le Benedetto XV, 7, Genova

Seminar | "Modulation of nociception
in spinal cord under normal
and pathological conditions"

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Although the understanding of neuropathic and neuroinflammatory processes has notably improved in the last decades, the molecular nociceptive mechanisms are largely unknown and necessary for more effective and mechanism-based treatment approaches.

In this seminar, underlying mechanisms of neuroinflammation and neuropathic pain development will be discussed, with a focus on the modulatory mechanisms involving the macrophage migration inhibitory factor (MIF), cannabinoid receptor 1 (CB1), transient receptor potential vanilloid type 1 (TRPV1) channel and fatty acid amide hydrolase (FAAH) and acting on synaptic transmission at the spinal cord dorsal horn (SCDH), dorsal root ganglia (DRG) and sciatic nerve level, in an established pain model, such as peripheral neuroinflammation, a phenomenon that influences function of the nerves outside the brain or spinal cord.