

In-person only, conducted in English. 対面開催のみ.
Pre-registration is not necessary. 予約不要.

MECHANISMS OF NEUROSTEROID ACTION IN THE NERVOUS SYSTEM: A FOCUS ON THE PERIPHERAL NERVOUS SYSTEM

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14:00-15:00

Seminar room A, 2F, CoMIT

Since the former evidence of biologic actions of neurosteroids in the central nervous system, the peripheral nervous system (PNS) has been reported as a target of this class of steroids. The neurosteroids are indeed synthesized and active in the PNS, performing important functions and controlling various peripheral cell types. Namely, the PNS is a target for neurosteroids, in their native or metabolized form. In detail, previous and recent evidence indicate that the progestogens, such as the derivative allopregnanolone, exert important functions in the PNS, thus contributing to its physiologic processes. In my presentation, I will survey the recent findings on the genomic and non-genomic actions of neurosteroids in nerves, ganglia, and cells forming the PNS, focusing on the mechanisms regulating the peripheral neuron-glia crosstalk. Then, I will refer to the pathophysiological significance of the neurosteroid signaling disturbances in the PNS, in order to identify new molecular targets for promising pharmacotherapeutic approaches.