Project: Initial Training Network for Neurological Disorders orchestrated by cytokines (NeuroKine)

Research Topics: Generation of novel mouse lines to elucidate the role of interleukin-23 in inflammatory disease of the CNS

Interleukin (IL)-23 plays a critical role in autoimmune inflammation of the central nervous system. Although the function of this cytokine in expansion of T helper type 17 cells has been widely studied, many aspects of its regulation and biological activity still remain elusive. In order to investigate in more detail the role of IL-23 in various stages of inflammatory response, reliable animal models are necessary. Therefore, the aim of the current project is to generate novel mouse lines using advanced gene-editing tools, which would enable: 1) cell-specific over-expression and 2) tracking and depletion of IL-23-expressing cells.

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