Integrative Neuroscience & Cognition Center
INCC-UMR 8002 Seminar series - 2020

Monday, September 28th 2020 at 11:00h

Conference Room R229 (2nd floor)
Centre Universitaire des Saints Pères
45 rue des Saints Pères, 75006 Paris

Piotr Topilko

Institut Mondor de Recherche Biomédicale
Hôpital Henri Mondor, France

Schwann cell metamorphosis in type 1 neurofibromatosis

Neurofibromatosis type 1 (NF1) is one of the most common (1/3000 births) rare genetic disorders caused by mutations in the *NF1* tumor suppressor gene. Nearly all NF1 patients develop benign nerve sheath tumors called neurofibromas (NFs) which number may reach into the thousands. In addition, some NFs progress into malignant peripheral nerve sheath tumors (MPNST) that are invariably lethal. Despite important advances in deciphering mechanisms driving development of NFs and their malignant transformation there is still no treatment options to block development of neurofibromas or to prevent their malignant transformation. In this context we have set up unique GEM model that faithfully recapitulates development of benign and malignant neurofibromas. Exploring this model allowed us to perform important discoveries concerning the cells at the origin of NFs, the role of inflammation in development of those tumors, the new mechanism driving malignant transformation and pave the way for development of new therapeutics to defeat this devastating disease.

Host: cendra.agulhon@parisdescartes.fr

More information: https://incc-paris.fr/events