INSTITUT DES SCIENCES DU CERVEAU DE TOULOUSE

Conférences de l'IFR96

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Lundi 14 juin à 14h

Salle du Conseil
Université Paul Sabatier
118 route de Narbonne, Bât administratif

Tissue type Plasminogen activator: A JANUS serine proteases with critical brain functions and dysfunctions

Résumé:

Despite the fact that an estimated 2% of the human genome codes for proteases, only a small fraction of these enzymes has well-characterized functions.

Our research are focused on the molecular and cellular mechanisms by which serine proteases and their inhibitors influence the pathophysiology of the central nervous system, with a particular interest for two serine proteases, the tissue-type plasminogen activator (tPA) and plasminogen (Plg).

After quite a long period of pessimism due to the lack of translation from the bench to the beside, the area of cerebral ischemia has now regained much interest thanks to the development of new tools and technologies bringing molecular/cellular/animal biology closer to the clinical situations.

Our team has fully participated to this exciting period of progress, thanks to our constant effort to develop a real translational approach, going from the molecule to the integrated pathophysiology, offering multiple possibilities to identify new ways to understand, predict and treat stroke.