Fiche mise à jour le 13/01/2022
200716389N : MMDN Mécanismes Moléculaires dans les Démences Neurodégénératives - Unité de recherche

Responsables

Le responsable ne souhaite pas publier ses coordonnées. **Directeur** - Tangui MAURICE à partir du 01/01/2019
tangui.maurice@umontpellier.fr
Le responsable ne souhaite pas publier ses coordonnées.

Adresse : UNIVERSITE DE MONTPELLIER CC105 Place Eugène Bataillon 34095 MONTPELLIER CEDEX 05
Site : https://mmdn.umontpellier.fr/fr/
Descriptif : The lab « Molecular Mechanisms in Neurodegenerative Diseases » (MMDN) is an interdisciplinary lab dedicated to research on the biology of ageing and of neurodegenerative diseases, from cells to humans. The overall scientific aim of MMDN is to improve our understanding of the molecular and social bases of "normal" ageing, as well as of neurodegenerative diseases, such as Alzheimer¿s disease (AD), Parkinson¿s disease (PD), prion and Hungtinton¿s (HD) diseases, and to suggest new approaches for diagnosis, care and treatment. Our research is based on 3 specific themes : 1- Processes in ageing: from single cells to humans. Ageing is a continuum process that begins at conception, continues during development and for as long as we live. The main originality of the lab is that we are able to study ageing from the level of single neurons, to the level of human populations. 2- Conception and development of experimental models. Our goal is to identify and understand the early mechanisms of neurodegenerative processes before deleterious signs appear. We are developing various and complementary systems for the analysis of ageing and neurodegeneration, both in vitro (cell cultures) and in vivo (zebrafish, mice, rats, and primates). 3- Therapeutic strategies. Using our various animal models, we develop specific strategies in dealing with prion diseases and with AD. Regarding prion diseases, we have used an original approach consisting in lentiviral gene transfer of dominant negative prion protein. Regarding AD, we developed anti-Ab immunotherapy and pharmacotherapy aimed at original targets involved in endogenous neuroprotection, like the s1 chaperone.
Ecole(s) doctorale(s) de rattachement :

- ECOLE DOCTORALE DE L' ECOLE PRATIQUE DES HAUTES ETUDES
- SCIENCES CHIMIQUES ET BIOLOGIQUES POUR LA SANTÉ (CBS2)

Rattachée au(x) thème(s) de recherche suivant(s):

- Maladies Neurodégénératives
- Modèles animaux
- Neuroprotection
- Vieillissement
- Longévité

Liens avec d'autres structures :
Aucun
Contact:
Année de création :2007
Site ESR :

- Alliance Languedoc-Roussillon Universités, depuis le 01/01/2020

Classement scientifique ERC :

- LS5 : Neuroscience and Disorders of the Nervous System : Nervous system development, homeostasis and ageing, nervous system function and dysfunction, systems neuroscience and modelling, biological basis of cognitive processes and of behaviour, neurological and mental disorders

Domaine scientifique :

- 5 : Biologie, médecine et santé 2007

Etablissements

test Image not found or type unknown	INSERM - Institut national de la sante et de la recherche medicale (U 1198) (établissement tutelle à partir de 2007)

test	EPHE PARIS - Ecole Pratique des Hautes Etudes Paris (U 1198) (établissement tutelle à partir de 2007)	**Etablissement référent**
test	MONTPELLIER - Université de Montpellier (EPE) (U 1198) (établissement tutelle à partir de 2015)	
test	PSL - Université Paris sciences et lettres (U 1198) (établissement tutelle à partir de 2020)	

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Historique

- Libelle(s) de structure
  - 23/08/2011 : MMDN
  - 23/08/2011 : MÉCANISMES MOLÉCULAIRES DANS LES DÉMENCES NEURODÉGÉNÉRATIVES
- Responsable
  - 01/11/2007 - 31/12/2018 : Jean-Michel VERDIER (DIR)
- Label et Numéro d'établissement
  - 13/05/2020 : **U 1198**
    PSL - Université Paris sciences et lettres (U 1198)

    - 02/12/2015 : **U 1198**
      EPHE PARIS - Ecole Pratique des Hautes Etudes Paris (U 1198)
    - 02/12/2015 : **U 1198**
      INSERM - Institut national de la sante et de la recherche medicale (U 1198)
    - 23/08/2011 : **U 710**
      INSERM - Institut national de la sante et de la recherche medicale (U 1198)
    - 27/07/2011 : **U 710**
      EPHE PARIS - Ecole Pratique des Hautes Etudes Paris (U 1198)
- Classement scientifique ERC
    - 2007 - 2020 : LS3- Cell Biology, Development, Stem Cells and Regeneration : Structure and function of the cell, cell-cell communication, embryogenesis, tissue differentiation, organogenesis, growth, development, evolution of development, organoids, stem cells, regeneration, therapeutic approaches
    - 2007 - 2010 : LS6- Immunity, Infection and Immunotherapy : The immune system, related disorders and their mechanisms, biology of infectious agents and infection, biological basis of prevention and treatment of infectious diseases, innovative immunological tools and approaches, including therapies
- Etablissements
    - 2015 - 2021 : MONTPELLIER- Université de Montpellier
    - 2007 - 2014 : MONTPELLIER 2- Université Sciences et Technologies du Languedoc Montpellier 2
    - 2007 - 2010 : CNRS- Centre national de la recherche scientifique