

Fiche mise à jour le 21/03/2022 ■

200616430M : U1177 - M2SV - Médicaments et Molécules pour Agir sur les Systèmes Vivants - Unité de recherche

Responsables

Le responsable ne souhaite pas publier ses coordonnées. Le responsable ne souhaite pas publier ses coordonnées.

Adresse : Faculté des Sciences Pharmaceutiques et Biologiques rue du Professeur Laguesse 83 59006 LILLE

Site : <https://www.deprezlab.fr/>

Descriptif : The mission of the lab is to pioneer new pharmacological modes-of-action with the aim to provide drug prototypes in areas of unmet medical need. Working exclusively on novel targets or novel strategies to tackle challenging modes of action, we position ourselves upstream of traditional players (i.e. pharmaceutical or biotech companies), assuming risk at early stages of the drug discovery value chain. This positioning aims at combining new knowledge on biology and pharmacology with therapeutic innovation. To fulfil its mission, the team designs, synthesizes and evaluates novel compounds (both qualitatively and quantitatively) in living systems (cells, organism, human). Specifically, we design and study compounds that selectively modulate molecular targets to understand (chemical biology) and treat (drug discovery) infectious and metabolic diseases. To reach these goals, our team collaborates actively and shares resources with biologists and medical doctors from various French INSERM and CNRS laboratories (CIIL, Labex Egid, Lille, Institut Necker, Paris) and with specialists in the formulation area (Paris-Orsay, Lille) and molecular modelling (MTI, U973 B. Villoutreix, Paris). In parallel, we have sustained relationships with several university labs abroad: U.Chicago, Ho-Chi-Min Ville, Durham, Leuven, Athens and Brussels. Our unit is the only academic lab in France combining extensive resources in synthetic chemistry, bioanalytics and pharmacological screening and pharmacokinetics, enabling continuing commitment from target identification to drug prototype.

Ecole(s) doctorale(s) de rattachement : non renseignée

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

- infectious diseases (target pathways encoded by bacteria),
- metabolic and immune diseases (human-encoded target pathways)
- quantitative pharmacology: High Throughput Screening, High Resolution Screening (phenotypic, HRMS-guided), pharmacokinetics, new probes and reporters to be used in confocal microscopy.
- medicinal chemistry and structure-based design:
- fragment-based drug discovery, molecular modelling, organic chemistry, in situ target-guided synthesis, chemical library development

Liens avec d'autres structures :

Regroupe :

- [Groupements d'Intérêt scientifique 201823610P - ChemBioFrance](#) (lien non exclusif)

Participe à :

- [Structures Fédératives de Recherche 201220468A - Institut Européen de Génomique du Diabète](#) (lien non exclusif)

Contact: benoit.deprez@univ-lille2.fr

Année de création :2006

Site ESR : Aucun

Classement scientifique ERC :

- PE7 : Systems and communication engineering : Electrical, electronic, communication, optical and systems engineering
- LS1 : Molecules of Life: Biological Mechanisms, Structures and Functions : Molecular biology, biochemistry, structural biology, molecular biophysics, synthetic and chemical biology, drug design, innovative methods and modelling
- 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
- LS7 : Prevention, Diagnosis and Treatment of Human Diseases : Medical technologies and tools for prevention, diagnosis and treatment of human diseases, therapeutic approaches and interventions, pharmacology, preventative medicine, epidemiology and public health, digital medicine

Domaine scientifique :

- 4 : Chimie 2015
- 5 : Biologie, médecine et santé 2006

Etablissements ■

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LILLE -
Université de
Lille (EPE)
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de 2018)

Historique

- Libelle(s) de structure
 - 23/02/2015 : U1177
 - 23/02/2015 : M2SV : Médicaments et Molécules pour Agir sur les Systèmes Vivants

- 08/12/2011 : UMR_S761
- 08/12/2011 : BIOSTRUCTURES ET DECOUVERTE DE MEDICAMENTS
- Responsable
 - 01/01/2006 - 31/12/2019 : Benoit DEPRez (DIR)
- Label et Numéro d'établissement
 - 03/03/2020 : **UMR_S 761**
LILLE - Université de Lille (EPE) (UMR_S 761)
 - 09/04/2018 : **U 1177**
INSERM - Institut national de la sante et de la recherche medicale (U 1177)
 - 08/12/2011 : **U 761**
INSERM - Institut national de la sante et de la recherche medicale (U 1177)
- Classement scientifique ERC
 - 2006 - 2009 : 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
 - 2018 - 2021 : LILLE- Université de Lille
 - 2006 - 2017 : LILLE 2- Université du Droit et de la Santé Lille 2
 - 2006 - 2015 : CHUL- Centre Hospitalier Universitaire de Lille
 - 2006 - 2009 : INSTITUT PASTEUR- Institut Pasteur
 - 2006 - 2009 : CNRS- Centre national de la recherche scientifique