

Project title: Gut hepcidin: from physiology to therapeutics

Annonce mise en ligne le/Offer posted on: 25/06/2021

PROJET/RESEARCH PROJECT

Iron is essential for almost all living organisms and takes part in a number of important physiological processes including oxygen transport, DNA replication and enzymatic reactions. Because iron excess or scarcity can cause severe cellular damages, it needs to be tightly regulated. Hepcidin is the key hormone mainly produced by the liver maintaining systemic iron homeostasis in the organism, in response to high iron, infection or inflammation.

We recently demonstrated that, in contrast to liver-derived hepcidin that acts as an endocrine hormone, hepcidin can be produced locally in the skin and the intestine. We developed new mouse models to study its role in inflammatory/infectious conditions.

The project of the post-doc will be to explore the local role of hepcidin in the setting of psoriasis and colitis, two inflammatory diseases with increasing incidence worldwide, for which new therapies are urgently needed.

The post-doc will use a combination of in vivo (mouse models in which hepcidin is specifically overexpressed or invalidated in keratinocytes or intestine epithelial cells) and ex vivo approaches for which the team has the expertise and all the tools. We have access to biopsies of patients suffering from psoriasis or inflammatory bowel diseases.

STRUCTURE D'ACCUEIL/LOCATION

Team « Iron and Immunity» is part of the Endocrinology Metabolism and Diabetes of the Institut Cochin located in the center of Paris, 22 rue Méchain – 75014 Paris, France.

Institut Cochin is one of the biggest biomedical French Research Center located in the center of Paris that provides a multidisciplinary scientific environment and very efficient core-facilities.

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CONTRAT/FINANCIAL SUPPORT

Type: CDD

Funding:

Début/Beginning: 01/09/2021

Durée du contrat/Length of contract: 31/08/2024

Structure employeur/organization

INSERM

CNRS

UNIVERSITE

Applicants should send their CV, letter of motivation and name of 2 references.

Envoyez votre CV, lettre de motivation et deux contacts de recommandations à :

- Carole PEYSSONNAUX
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