Unité INSERM UMR1073
Nutrition, Inflammation & Microbiota-Gut-Brain Axis
Université de Rouen, UFR Santé
22 Boulevard Gambetta
76 000 ROUEN, FRANCE

Rouen, June 21st, 2023

Our lab is hiring a highly motivated post-doctoral scientist to work on host-gut bacteria interactions. This two years fellowship is funded by the ANR (SUMONING project; *Targeting of SUMOylation by the gut microbiota and dampening of intestinal inflammation*). This project brings together scientists with complementary expertise in the fields of microbiology, immunology, and cellular biology.

Our research project builds on the recent identification of metabolites produced by the gut microbiota, which downregulate intestinal inflammatory responses by acting on SUMOylation, an essential post-translational modification of intestinal proteins[1]. The successful candidate will be responsible for (1) characterizing the signaling pathways triggered by these metabolites that dampen intestinal inflammation and (2) evaluating the anti-inflammatory potential of these metabolites in pre-clinical models of inflammatory bowel diseases. This research project has a high valorization potential.

The candidates should:

- hold a PhD in Cellular Biology, Immunology, Microbiology or a related discipline
- have an expertise in animal experiments (in particular in pre-clinical models of intestinal inflammation)
- have an expertise in cellular biology and/or immunology
- have excellent oral and written communication skills

Our lab has a strong publication and funding track record in the field of intestinal physiology and, more recently, in the role of the gut microbiota in the pathophysiology of intestinal-related diseases. Several state-of-the-art tools and facilities from the University of Rouen Normandy and from the Institute for Research and Innovation in Biomedicine are available to support and improve our research activities. The selected candidate will join a research group which offers a highly dynamic environment, in which teamwork, autonomy, and originality are stimulated and appreciated.

Applications should include a motivation letter, a CV (including publication list), and two reference contacts. Applications should be sent to David Ribet (david.ribet@inserm.fr). The selected candidate will start the latest on December 1st 2023.

For more information, please contact the scientific coordinator of this project:

David Ribet (david.ribet@inserm.fr)
https://cvscience.aviesan.fr/cv/1208/david-ribet
https://medecine-pharmacie.univ-rouen.fr/aden-umr-s-1073-nutrition-inflammation-et-dysfonction-de-l-axe-intestin-cerveau-679066.kjsp

1 - Ezzine C, Loison L, Montbrion N, Bôle-Feysot C, Déchelotte P, Coëffier M, Ribet D. *Fatty acids produced by the gut microbiota dampen host inflammatory responses by modulating intestinal SUMOylation. Gut Microbes* 14, 2108280.