

## Postdoctoral position in immunometabolism.

Postdoctoral research fellow position available in the “Phagocytes in metabolic diseases” group led by Emmanuel Gautier (<http://www.emmanuelgautierlab.com/>) at the UMRS 1166 in Paris, France.

The UMRS 1166 (Research unit on cardiovascular and metabolic diseases) is a dynamic research center located in Paris that comprises internationally recognized groups focusing on cardiovascular and metabolic diseases (<https://recherche-cardiovasculaire-metabolique.fr/>).

We seek to hire a highly motivated candidate to investigate the role of macrophages in metabolic diseases. The candidate will work with research assistants and scientists to study how macrophage homeostasis and functions are altered in metabolic diseases and how this in turn impact metabolic diseases-associated comorbidities. To this aim transgenic mice and pre-clinical mouse models of metabolic diseases will be used as well as patient clinical samples.

Highly motivated scientists with a strong interest in immunometabolism are encouraged to apply. The candidate should have a PhD in Life Sciences with a strong knowledge in immunology and/or metabolism as well as in molecular and cellular biology. Solid experience with animal experimentation is mandatory. Experience in flow cytometry, imaging and molecular biology would also be appreciated. Strong writing and oral communication skills will be needed. The candidate should have demonstrated innovation, initiative, problem-solving attitude, and ability to work well both independently and as a member of a team. Working languages will be French and English.

The position offers creative and stimulating working conditions in a dynamic and international research environment. Salary will be in accordance with the Sorbonne University scale, depending on experience.

CV, list of publications, short description of previous research projects and experience, and contact information for (at least) two referees should be sent by email to: [emmanuel-laurent.gautier@inserm.fr](mailto:emmanuel-laurent.gautier@inserm.fr)

### *Publications related to the project:*

- Tran S, Baba I, Poupel L, Dussaud S, Moreau M, Gélinau A, Marcelin G, Magréau-Davy E, Ouhachi M, Lesnik P, Boissonnas A, Le Goff W, Clausen BE, Yvan-Charvet L, Sennlaub F, Huby T, Gautier EL. *Impaired Kupffer cell self-renewal alters the liver response to lipid overload during non-alcoholic steatohepatitis.* *Immunity.* 2020 Sep 15;53(3):627-640.
- Askia H, Dussaud S, Chaves de Oliveira M, Oliveira A, Poupel L, Rebiere C, Ouhachi M, Manuel R, Merabtene F, Genser L, Aron-Wisnewsky J, Moreau M, Yvan-Charvet L, Ferreira A, Huby T, Clément K, Marcelin G, Gautier EL. *Obesity-elicited macrophages shape CD9hi progenitor fate to promote adipose tissue fibrosis and dysfunction.* *bioRxiv* 2023.09.26.559540; doi: <https://doi.org/10.1101/2023.09.26.559540>.
- Fima R, Dussaud S, Benbida C, Blanchet M, Lanthiez F, Poupel L, Brambilla C, Moreau M, Boissonnas A, Gautier EL\*, Huby T\*. \*Equal contribution. *Loss of embryonically-derived Kupffer cells during hypercholesterolemia accelerates atherosclerosis development.* *bioRxiv* 2023.09.26.559586; doi: <https://doi.org/10.1101/2023.09.26.559586>.
- Gélinau A, Marcelin G, Ouhachi M, Dussaud S, Volland L, Baba I, Rouault C, Yvan-Charvet L, Clément K, Tussiwand R, Huby T, Gautier EL. *Dietary fibers benefits on glucose homeostasis require type 2 conventional dendritic cells in mice fed a high-fat diet.* *bioRxiv* 2023.04.19.537402; doi: <https://doi.org/10.1101/2023.04.19.537402>.
- Huby T, Gautier EL. *Immune cell-mediated features of non-alcoholic steatohepatitis.* *Nat Rev Immunol.* 2022 Jul;22(7):429-443.
- Marcelin M, Ferreira A, Liu Y, Atlan M, Aron-Wisnewsky J, Pelloux V, Botbol Y, Ambrosini M, Fradet M, Rouault C, Hénégar C, Mutel S, Hulot JS, Poitou C, Torcivia A, Nail Barthelemy R, Bichet JC, Gautier EL, Clement K. *PDGFR $\alpha$ -mediated switch to CD9<sup>high</sup> progenitors controls fibrotic adipose tissue alteration in obesity.* *Cell Metabolism.* 2017 Mar 7;25(3):673-685.