



## Postdoctoral researcher position in the “Comparative developmental neurobiology” team of the Institut Jacques Monod

The team “Comparative developmental neurobiology” at the Institut Jacques Monod in Paris, France, is recruiting a postdoctoral researcher to study the evolution of neuronal circuitry and behavior using the insect visual system as a model. The project is funded by an ERC starting grant.

The recruited postdoc should have a strong interest in neuronal circuitry and/or neuronal evolution. They should preferably have extensive experience in molecular biology and some experience in transgenesis or working with non-traditional genetic model organisms.

The goal of the project is to compare the circuits that underlie specific behaviours in different insects. Since studying circuitry in non-model organisms is rendered difficult by the absence of relevant genetic tools or extensive connectomic studies, the recruited researcher will introduce genetic tools for trans-synaptic tracing in non-*Drosophila* insects and will use them to identify neurons that participate in circuits that control visually-guided behaviours. They will compare the circuitry between the different insects to understand how conserved or divergent these circuits are and how this could impact specific behaviours. The choice of the insect and the neurons to be targeted will be guided by pre-existing single-cell transcriptomic experiments. The host lab has expertise in the use of non-traditional genetic model organisms ([doi.org/10.1126/science.1243529](https://doi.org/10.1126/science.1243529)), as well as in the generation and analysis of single-cell sequencing datasets ([doi.org/10.1016/j.cell.2018.05.021](https://doi.org/10.1016/j.cell.2018.05.021)) and is currently developing comparative analytical approaches ([doi.org/10.1016/j.coisb.2018.08.001](https://doi.org/10.1016/j.coisb.2018.08.001)).

The recruited researcher will integrate the team of Comparative Developmental Neurobiology led by Nikos Konstantinides at the Institut Jacques Monod, which is a joint CNRS/Université Paris Cité research unit of around 350 people. The IJM is housed in a recent University building on the Paris Rive Gauche campus located in the 13th arrondissement of Paris and hosts research teams with diverse interests ranging from neuronal development to evo-devo and epigenetics. The working language of the lab is English.

The deadline for the call is December 20<sup>th</sup>. Potential applicants should submit their applications here: <https://emploi.cnrs.fr/Offres/CDD/UMR7592-NIKKON-005/Default.aspx?lang=EN>. If you have any questions, please contact Nikos Konstantinides ([nikos.konstantinides@ijm.fr](mailto:nikos.konstantinides@ijm.fr)).

