

# POSTDOC OPPORTUNITY:

## Microtubule regulation within *Drosophila*

The **Conduit lab** is moving to the **Institut Jacques Monod** in **Paris** and is seeking to recruit a motivated **postdoc** to work on projects aiming to understand how microtubule formation and organisation are regulated within cells. The **IJM** is situated in the heart of Paris and offers state-of-the-art facilities and a dynamic research environment.

We study how cells control microtubule nucleation and organisation in order to generate specialised microtubule arrays, such as the mitotic spindle or the polarised microtubule networks within neurons. We focus on gamma-tubulin ring complexes ( $\gamma$ -TuRCs), which template and catalyse new microtubule formation at microtubule organising centres (MTOCs), such as the centrosome or Golgi.

The lab primarily uses *Drosophila* as an animal model system and we span scales, relating the molecular structure and composition of  $\gamma$ -TuRCs to their recruitment and activation within cells.

We are seeking a new team member who has a passion for research and discovery. Specific projects will be discussed with applicants and can vary from studying microtubule nucleation using single-molecule nucleation assays to examining the regulation of microtubule nucleation within neurons. The choice of project will depend largely on the applicant's interests and skills. Applicants are expected to have, or be near to completing, a PhD in a relevant field, and should have, or be near to having, at least one first-author publication in a journal of good standing.

Postdoctoral funding is initially available from October 2020 for up to 2 years, and selected applicants will be encouraged and supported to apply for external postdoctoral grants/fellowships.

Interested applicants are invited to apply informally by writing to Paul Conduit ([paul.conduit@ijm.fr](mailto:paul.conduit@ijm.fr)). They should include a cover letter outlining their motivation, interests and research experience, and a CV that includes contact details for multiple referees.

Details of our work can be found on our website:

<http://conduitlab.zoo.cam.ac.uk>

### selected publications

Mukherjee A, Brooks P, Bernard F, Guichet A, Conduit PT (2020). Microtubules originate asymmetrically at the somatic Golgi and are guided via Kinesin2 to maintain polarity in neurons. *eLife*. DOI: 10.7554/eLife.58943

Tovey CA, Tubman CE, Hamrud E, Zhu Z, Dyas AE, Butterfield AN, Fyfe A, Johnson E, Conduit PT. (2018).  $\gamma$ -TuRC heterogeneity revealed by analysis of Mozart1. *Current Biology*.

