



Post-doctoral researcher

How do animals regenerate? Computational analysis of live imaging data

The team of Michalis Averof, at the **Institut de Génomique Fonctionnelle de Lyon (IGFL)** in France, is recruiting a post-doctoral researcher to study the morphogenesis of regenerating legs. The project will investigate the cell dynamics that underpin leg formation during regeneration (the spatiotemporal patterns of cell division, apoptosis, cell rearrangements and cell shape changes) and ask whether this process mirrors the mechanism of leg development in the embryo. The project is funded by an ERC Advanced Grant.

Candidates should have a strong background in computational analysis of live image (timelapse) recordings, preferably in the context of morphogenesis. The research will be carried out in the crustacean *Parhyale hawaiensis*, a new experimental model that combines good regenerative abilities with genetic tractability and live imaging (see Science 343: 788-791). At present, *Parhyale* is the only model organism where the entire process of limb regeneration can be imaged continuously at single-cell resolution (eLife 5: e19766, eLife 5: e21583). Transgenic lines expressing fluorescent markers and live imaging methods are well established in the lab, and quality image datasets are already available.

The researcher will be integrated in the Averof lab (www.averof-lab.org), in the new laboratories of the IGFL at the École Normale Supérieure de Lyon, an exciting environment for research at the interface of development, physiology and evolution and genomics. The working language of the team is English.

The researcher will receive a salary and health/social security coverage from the CNRS. The contract will be initially for one or two years, with possible extensions until the end of the project (December 2021). The starting date is negotiable.

This call has an open deadline; applications will be examined until the relevant position is filled. Potential applicants are encouraged to contact Michalis Averof as early as possible, sending a brief description of interests and a CV to michalis.averof@ens-lyon.fr.

