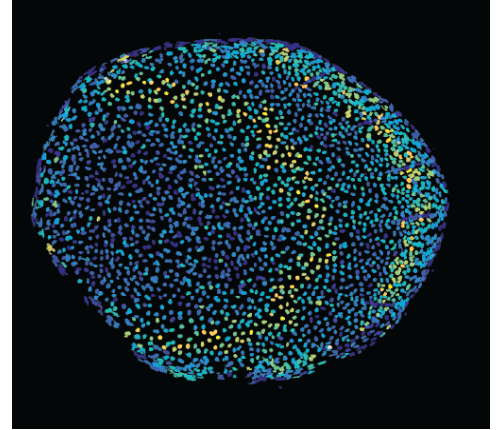
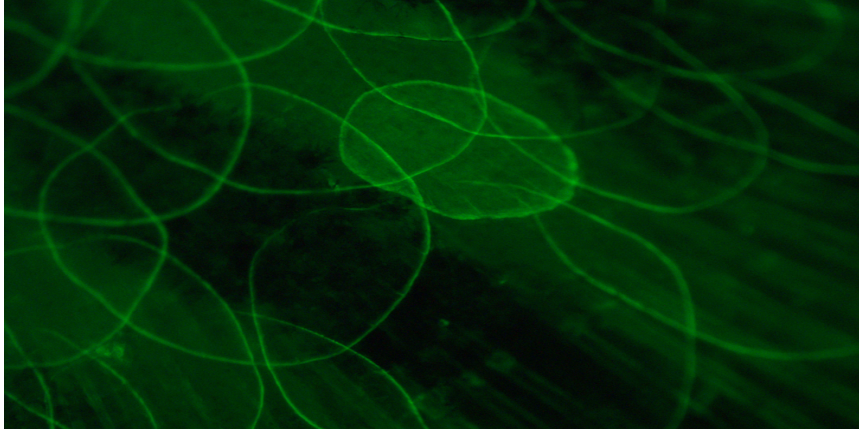




UNIVERSITÉ  
DE GENÈVE

FACULTÉ DES SCIENCES  
Département de génétique  
et évolution

## Postdoc/senior scientist position at the University of Geneva (Switzerland) Physical principles of regeneration in zebrafish



We are looking for outstanding and highly motivated scientists to perform research **at the intersection of physics and developmental biology** in the lab lead by Prof. De Simone (funded position).

We are interested in how signals orchestrate cell behaviour for regenerating tissues to get to their right form. We tackle the mechanisms of regeneration combining *in vivo* live imaging, data analysis, and theory. Our model system is the regenerating zebrafish scale, a bone disk accessible to microscopy.

How are signals organized in time and space to coordinate morphogenesis? How are these signals integrated with mechanical forces? How is tissue growth coordinated with bone formation?

### Do you see yourself in one of these profiles?

- Your background is in cell/developmental biology and you are fascinated by imaging. You want to develop a highly quantitative project on signalling dynamics in morphogenesis. Coding and/or zebrafish experience are a plus.
- Your background is in physics/engineering and your PhD in experimental biology. You want to strengthen your experimental skills, learn zebrafish as a model system and develop a project on the physics of bone regeneration.
- You are strong in bioinformatics and “omics” is your home. You would like to apply these methods to an exciting and largely unexplored regenerative system, by combining single cell transcriptomics and microscopy.

Contact for applications: [alessandro.desimone@unige.ch](mailto:alessandro.desimone@unige.ch)

For more details: <https://genev.unige.ch/research/laboratory/alessandro-desimone>