



# Post-doctoral positions on cell polarization

**The Martin lab has three open postdoctoral positions on cell communication and polarization.**

How does a cell orient in response to a chemical cue? This basic problem is at the core of how cells interact with their environment for behaviors as diverse as feeding, identifying an invader or finding a mate for sexual reproduction. Our lab uses one of the simplest eukaryotic models, the fission yeast *S. pombe*, to understand fundamental principles of gradient sensing. We previously showed that these cells use a *speed-dating* process to find a mate for sexual reproduction, where dynamic polarity patches secrete pheromones and become stabilized in response to those produced by the other mating type. We are launching an ERC-funded research program to understand gradient decoding at the molecular level, and how mechanisms may be modulated in natural variants.

Research projects will use a mix of approaches including quantitative imaging, optogenetics, molecular genetics and genomics. Postdoctoral candidates will join our vibrant research group, which is located on the highly international and interdisciplinary University of Lausanne campus, with immediate access to lake and mountains and a rich cultural life. Please visit our website for more information on our group, research interests and publications: <http://www.unil.ch/martinlab>

## Requirements

- PhD thesis (or planned defense at time of application)
- Good publication record
- Curious and open mind with high motivation to excel in science
- Strong interest in cell and molecular biology
- Prior expertise in yeast genetics, quantitative imaging and/or genomics would be an asset.

## Job description

Start date upon agreement, from October 2021; 100%; 1-year contract that can be renewed upon mutual agreement for up to a maximum of 5 years; generous salary according to the University of Lausanne pay scale.

## How to Apply

Please apply on [this link](#) with your full application including motivation letter, CV, list of publications and the names and email addresses of 2-3 referees. For further information, please contact [Sophie.Martin@unil.ch](mailto:Sophie.Martin@unil.ch)

