



**Post-doctoral position in Plant Molecular and Developmental Biology
Strasbourg (France)**

A post-doctoral position funded by the French National Research Agency (ANR) is available for 3 years starting in fall/winter 2018-2019 at the Institute of Plant Molecular Biology (<http://www.ibmp.cnrs.fr/>), located in the center of Strasbourg (France).



**Institut de biologie
moléculaire des plantes**

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Research topic :

Post-transcriptional control of stem cell niche activity in plants

Growth and development are driven by stem cell populations, which are groups of undifferentiated cells that self-renew and also differentiate in response to multiple signal transduction pathways. Despite extensive study of the transcriptional and epigenetic networks that control stem cell populations in plants, the post-transcriptional mechanisms involved in balancing stem cell proliferation and differentiation, in humans as well as in plants, are largely unknown. Upstream open reading frames (uORFs) located within the leaders of many mRNAs act as translation repressors that, in plants, are regulated by TOR (target of rapamycin)—a central controller of growth. The successful candidate will investigate the mechanism of TOR function in uORF-mRNA translation and the role of uORFs in post-transcriptional regulation of the activity of a stem cell niche using the shoot apical meristem of *Arabidopsis* as a model.

The PostDoc position is a part of a collaborative project involving a consortium of two French teams: the team from CNRS IBMP in Strasbourg where the project will be carried out and a team from CNRS ENS in Lyon.

We are seeking for a motivated, serious, hardworking and independent researcher with excellent molecular genetics skills and practical experience in developmental biology. Experience in bioinformatics is a plus. He/She should have good knowledge in molecular biology, signal transduction as well as protein biochemistry. Applications will be accepted until the vacancy has been filled.

Candidates should send a brief summary of research experience, a CV, a list of publications, and names and e-mail addresses of three references to Lyuba Ryabova (lyuba.ryabova@ibmp-cnrs.unistra.fr). Review of applications will begin immediately.

***Lyuba Ryabova, PhD
Directeur de Recherche***

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