

This Fall, at the Vienna BioCenter, Silvia Ramundo (GMI) and Javier Martinez (Max Perutz Labs) offer an exciting project for your Master Thesis:

## “Why do chloroplasts recruit RNA processing factors to deal with protein quality control?”

### About the Ramundo and Martinez Labs:

The **Ramundo Lab** investigates the chloroplast unfolded protein response (cpUPR). This signaling pathway allows photosynthetic eukaryotes to sense the accumulation of damaged proteins in their chloroplasts and mitigate the resulting stress by reprogramming nuclear gene expression.

The **Martinez Lab** studies the conversion of precursor RNAs into mature, functional RNAs. This process entails phosphorylation and dephosphorylation of RNA termini, the ligation of RNA exons during pre-tRNA splicing and the “unconventional” cytoplasmic splicing of the Xbp1-mRNA to encode a critical transcription factor for the orchestration of the UPR.

### About the position and the research project:

You will characterize the function of RNA processing factors during the chloroplast UPR in the single-celled organism *Chlamydomonas reinhardtii*. You will have the opportunity to master state-of-art techniques in molecular biology and biochemistry and develop critical thinking in a creative Lab atmosphere within the vibrant Vienna BioCenter.

### Candidates:

Please apply if you love gene expression and RNA Biology! We are looking for bright and energetic students with a passion for science and good organizational skills. A substantial experience at the bench is highly preferred (but not strictly required).

### Contact:

Please get in touch with us by November 30<sup>th</sup> enclosing a CV and a short motivation letter. We will conduct interviews during December.

**Silvia Ramundo**, Group Leader [silvia.ramundo@gmi.oeaw.ac.at](mailto:silvia.ramundo@gmi.oeaw.ac.at)

**Javier Martinez**, Group Leader [javier.martinez@meduniwien.ac.at](mailto:javier.martinez@meduniwien.ac.at)



### About the Max Perutz Labs and the Gregor Mendel Institute:

The **Max Perutz Labs** ([www.maxperutzlabs.ac.at](http://www.maxperutzlabs.ac.at)), a joint venture between the University of Vienna and the Medical University of Vienna, aims to achieve a deep mechanistic understanding of fundamental biomedical processes and to provide an excellent education in molecular biology.

The **Gregor Mendel Institute** (<https://www.oeaw.ac.at/gmi/home>) is an international research institute founded by the Austrian Academy of Sciences. Its main goal is to promote excellent curiosity-driven research within the field of plant molecular biology.

Both Institutes are located at the [Vienna BioCenter](https://www.viennabiocenter.com), one of Europe's hotspots for Life Sciences.

#### MAX PERUTZ LABS

Vienna BioCenter (VBC) • Dr.-Bohr-Gasse 9 • 1030 Vienna  
Tel: +43 1 4277 24001 • [office@mfpl.ac.at](mailto:office@mfpl.ac.at)  
[www.maxperutzlabs.ac.at](http://www.maxperutzlabs.ac.at)

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