

Master's Thesis in Structural Biology (cryo-EM)



The Research Institute of Molecular Pathology (IMP) in Vienna pursues world-class research in basic molecular biology. It is located at the Vienna BioCenter and largely sponsored by Boehringer Ingelheim. With over 200 scientists from 40 countries, the IMP is committed to scientific discovery of fundamental molecular and cellular mechanisms underlying complex biological phenomena.

The newly established Plaschka lab has an open position for a Master's student at the Institute of Molecular Pathology (IMP). The lab uses structural biology and biochemical methods to study the mechanisms of mRNA regulation.

The successful candidate will carry out research on an essential multi-subunit complex involved in mRNA regulation. He/she will be exposed to a variety of molecular biology techniques, including biochemical preparation of the complex from insect cells (cloning, purification) and structure determination by cryo-electron microscopy (cryo-EM).

The ideal applicant will be highly motivated, have a strong interest in structural biology and have experience in standard biochemistry methods. We offer an exciting research project, outstanding infrastructure, and an excellent opportunity to learn both biochemistry and cryo-EM. The position is available from **spring 2019**, and remains open until it is filled. The student will receive a monthly stipend of € 500,-.

To apply please send a CV and cover letter to:

Dr. Clemens Plaschka

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www.imp.ac.at

www.viennabiocenter.org

Further reading

C. Plaschka^{*#}, P.-C. Lin^{*#}, C. Charenton, K. Nagai[#]. Prespliceosome structure provides insight into spliceosome assembly and regulation. *Nature* (2018) 558, 419–422. ^{*}These authors contributed equally. [#]Co-corresponding authors.

M. E. Wilkinson^{*}, P.-C. Lin^{*}, C. Plaschka^{*}, K. Nagai. Cryo-EM studies of pre-mRNA splicing: from sample preparation to model visualization. *Annual Reviews of Biophysics* (2018) in press, ^{*}These authors contributed equally.