



Master thesis position on ubiquitin and ubiquitin-like modifications in the maintenance of genome stability

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<http://www.imcr.uzh.ch/research/Gari.html>

Starting date: autumn/ winter 2017 or upon agreement.

Background. Maintaining the integrity of the genome is of outmost importance for a cell to remain functional. Apart from direct damage to the DNA, problems during DNA replication are a major source of genome instability.

Project. During your Master thesis, you are going to investigate the function of the AAA+ ATPase WRNIP1 that contributes to replication fork stabilisation under replication stress conditions in an as yet unknown way. In particular you are going to investigate how ubiquitin and ubiquitin-like modifications influence the function of this heavily modified protein. You will learn a variety of techniques in biochemistry, molecular and cellular biology, such as protein purification using *Sf9* insect cells, *in vitro* assays with purified proteins and DNA substrates, and work with tissue culture cells (siRNA and/or CRISPR/Cas9).

You. We are looking for a highly motivated student with a genuine interest in genome stability mechanisms. While you will be directly supervised by a senior PhD student, you should be comfortable when working in the lab and strive to become rather independent. In addition, you should have good communication skills and be an excellent team player.

Apply via e-mail: gari@imcr.uzh.ch.

Your application should include your CV and a short motivation letter stating your research interests.