



Lorenza Penengo Group

Postdoctoral Position

Interferon signalling in the control of DNA replication and genome stability

Timely and accurate **DNA replication** in dividing cells is crucial to maintain the integrity of the human genome. To ensure the fidelity of genome duplication, a complex series of processes has been evolved, known as **DNA damage response (DDR)**, to cope with chromosomal lesions by activating various cell cycle checkpoints, promoting DNA repair system or inducing cell death. The mechanisms underlying the cellular DDR and DNA replication stress are complex and are tightly controlled by **post-translational modifications**, including phosphorylation, acetylation, methylation, poly (ADP-ribosyl)ation, and modification by ubiquitin and ubiquitin-like proteins.

Historically interested in investigating the **role of ubiquitin system in the regulation of genome integrity**, more recently we extended our interest to understand how the microenvironment affects this regulation, by exploring the connection between **chronic inflammation and genomic instability**.

WHAT WE OFFER: Our lab is part of the Institute of Molecular Cancer Research, IMCR, which is a worldwide renowned Centre dedicated to genome stability. The candidate will be exposed to its vibrant and friendly atmosphere and its international scientific environment.

For more information visit our webpage: <http://www.imcr.uzh.ch/research/Penengo.html>

WHAT WE EXPECT: We are looking for a **highly motivated and enthusiastic postdoctoral fellow** to join our research group. The candidate should be able to **work independently** while being a **good team player**, hold a PhD in Biochemistry, Biology or related areas and have a good background in molecular and cellular biology. Additional experience in protein biochemistry and microscopy would be an asset. Prior experience in the broader area of genome stability is welcome. While initial funding is available, you will be encouraged, and should be competitive, to apply for external fellowships. Hence, you should be **first author of at least one excellent peer-reviewed publication**.

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Interested in the position? Send an email to Prof Dr Lorenza Penengo: penengo@imcr.uzh.ch
Your application should include a motivation letter stating your research interests, your CV, and the names of two to three referees.