



### **PhD and Post-Doctoral positions in Genome Integrity at WCMM Linköping:**

A 4-year PhD fellowship and a 2+2 years Post-Doctoral position are available in the laboratory of Genome Integrity headed by Francisca Lottersberger at the Wallenberg Centre for Molecular Medicine, Linköping University, Sweden (<https://liu.se/en/employee/fralo26>).

We seek talented and highly motivated candidates interested in addressing key questions in the field of genome stability, chromatin mobility and telomere maintenance. Applicants with a strong background in chromosome and DNA research and/or live-cell imaging are encouraged to apply.

The integrity of our DNA is continuously threatened by both endogenous and exogenous sources of damage, which have the potential to give rise to mutations and chromosome rearrangements. Eukaryotic cells have evolved DNA Damage Response pathways to recognize and repair such damage. Defects in these pathways promote genome instability, tumorigenesis, and cancer progression. At the same time, the linear, eukaryotic chromosomes are at risk of being mistaken as sites of DNA damage and failure in protecting telomeres from the DNA Damage Response pathways has also been associated with genome instability and tumor progression. In our research group, we use a variety of approaches, including live-cell imaging and chromosomal rearrangement analysis to elucidate the connections between double-stranded DNA breaks response, telomere homeostasis, chromatin dynamics and nuclear structure.

Linköping is a fast-growing city located in south Sweden, about 150 km from Stockholm, and a leading force in high technology, aviation, IT and environment. Its University is ranked among the world's top 30 young universities under 50 yrs. and hosts more than 25,000 students. The Wallenberg Centre for Molecular Medicine (<https://liu.se/en/research/wallenberg-centre-for-molecular-medicine>) is a new centre working in cooperation with Region Östergötland and part of a national network connecting the Universities and the University Hospitals of Gothenburg, Linköping, Lund, Umeå, and the SciLifeLab in Stockholm and Uppsala.

The positions are available starting April 2019 and fully-funded.

Interested candidates should send a motivation letter and their CV to [francisca.lottersberger@liu.se](mailto:francisca.lottersberger@liu.se).