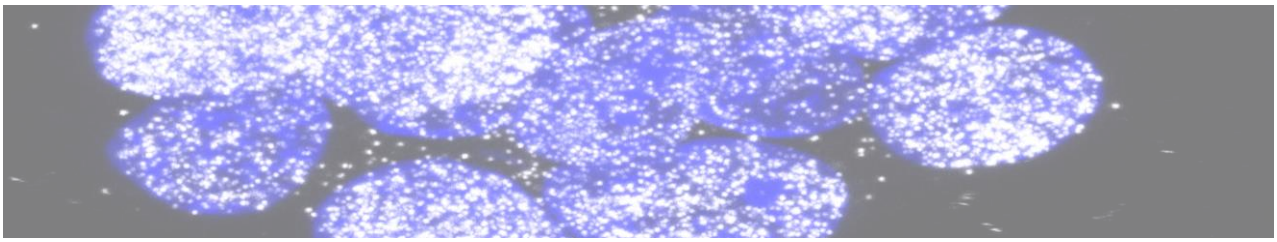
Master's Student Position

The Jachowicz team is looking for a motivated master's student to join our group at IMBA, Vienna BioCenter. The candidate will work on a project investigating the functions of transposable elements in early mouse development and will gain hands-on experience working with embryonic stem cells and various molecular biology techniques.



Jachowicz group: We are an international team of highly motivated researchers studying the regulation and function of transposons and repeats—often referred to as the "dark elements" of the mammalian genome. Our goal is to understand how these elements influence gene expression and 3D genome organization during early lineage specification. We use molecular biology and genomics approaches, applying them to embryonic stem cells and mouse embryos. Our group is part of IMBA at the Vienna BioCenter, one of the most vibrant and innovative life science campuses in Europe.

Project description: More than half of the mammalian genome consists of transposable elements. While their activity is typically deleterious in most cell types, their expression plays a crucial role in early embryonic development. However, how RNAs encoded by these elements are regulated in the nucleus and what functions they serve remain an open question. This project aims to develop tools to study transposon activity in embryonic stem cells and explore their role in gene regulation.

Requirements: We are looking for candidates who are passionate about scientific questions related to gene expression regulation and eager to explore early mammalian development and transposon biology with us. Applicants should be fluent in English and hold a bachelor's degree in biology, biotechnology, or a related field. Candidates should be able to commit to at least six months (priority will be given to those available for a longer time). Prior experience working with mammalian cell cultures (e.g., HEK cells, 3T3 cells, or others) is required, along with a basic understanding of molecular biology. Hands-on experience with PCR, DNA/RNA extractions, or related techniques will be considered a plus.

Offer: We offer the opportunity to acquire a broad range of skills including embryonic stem cells handling and differentiation, transfections, fluorescent in-situ hybridization, confocal microscopy, and molecular biology techniques. Additionally, we provide scientific training and guidance in project planning, troubleshooting, and time management. Successful candidates will receive a contract with a salary.

Send your CV and one-page motivational letter to: joanna.jachowicz@imba.oeaw.ac.at

DR. BOHR GASSE 3 | VIENNA BIOCENTER (VBC) | 1030 WIEN, ÖSTERREICH
T: +43 1 79044 | F: +43 1 79044-110
IBAN: AT221100001270341900 | BIC: BKAUATWW | UID: ATU48243208
HANDELSGERICHT WIEN: FN 187213 P