Announcement of graduate scholarship at the Department of Clinical Sciences, Malmö, diabetics – epigenetics unit

Project name: Identification of causal epigenetic changes in type 2 diabetes

This study aims to understand fundamental epigenetic mechanisms underlying the pathogenesis of type 2 diabetes (T2D) and create epigenetics-based tools for precision medicine using the CRISPR-dCas9 system. Strong links between genetics and epigenetics that seem to impact the risk of T2D have been found. However, still the exact disease-associated epigenetic changes that cause T2D remain unknown. The overall aim of this study is to identify causal epigenetic changes responsible for phenotypes observed in T2D patients using epigenetic editing. This summer project will focus on testing and evaluating designed gRNAs of candidate genes within the CRISPR-dCas9 system in easy to transfect cell lines. The student will gain theoretical and practical knowledge in epigenetic editing using the CRISPR-dCas9 system.

Required qualifications
- Admitted to a master’s programme at the Faculty of Medicine
- Proven experience within the study area

Reference number: V 2021/1606

Duration: 2 months

Preliminary start date: 2021-07-19

Last date to apply: 2021-06-09

Supervisor/contact person: Charlotte Ling, 046–(0)40391213
charlotte.ling@med.lu.se

Application, including reference number, should be sent by e-mail to the contact person. The application must include:
- CV
- Motivation letter focusing on how the study area of the project fits the applicant’s knowledge and experience.
Information regarding scholarships at Lund University

- The scholarship sum is paid out monthly
- The scholarship is intended for the recipient’s education and is not a payment for work at the university.
- The scholarship is exempt from tax.
- The scholarship does not give rise to sickness benefits, compensation from Försäkringskassan, pension, vacation or parental leave.
- The scholarship does not include per diem for national or international travel.
- The scholarship is in line with the guidelines decided by Lund University’s Vice Chancellor: https://www.med.lu.se/intramed/forska_utbilda/stoed_till_forskning/anlag_stipendier/medicinska_fakultetens_anvisningar_foer_stipendier
“Föreskrifter gällande stipendiefinansiering för försörjning under utbildning eller efter avlagd doktorsexamen”