Lund University Diabetes Centre [www.ludc.med.lu.se](http://www.ludc.med.lu.se) is one of the strongest centers for diabetes research in the world. Lund University is one of Europe's leading universities. The University has 47,000 students and 7,200 staff from all over the world, based mainly in Lund, Malmö and Helsingborg. We work with 680 partner universities in more than 50 countries.

Lund University invites applications for the following position:

**Post-doctoral scholarship**

**Placement:** Department of Experimental Medical Science  
**Ref No:** V 2017/825  
**Duration:** The scholarship can be drawn for a total of 24 months, the scholarship will be reviewed every 6 months.  
**Starting time:** As soon as possible  
**Last day for applying:** July 14th, 2017

**Research Environment:**  
The lab (headed by Nils Wierup) [www.wierup-lab.org](http://www.wierup-lab.org) is part of the Lund University Diabetes Centre [www.ludc.med.lu.se](http://www.ludc.med.lu.se).

**Project subject - Mechanisms of gastric bypass-induced diabetes remission**

**Project Details:**  
The fact that GBP causes remission of T2D makes this group of patients suitable for identification of curative processes for T2D. We now focus on T2D- and GBP-induced expression changes in the small intestine.

It is not well studied how the intestinal mucosa is affected by GBP or if alterations in the gut play a role in remission of T2D in humans. Recent animal studies point towards a role for the jejunum (alimentary limb) in the remission of T2D. However, unbiased assessment of global gene expression is lacking. We perform transcript profiling, using RNAseq in jejunal specimens taken during surgery and from the same location one year postGBP during gastroscopy in obese diabetic subjects.

Pathway analysis suggests that certain unexpected biochemical processes are activated after GBP. We now aim to validate these changes at the protein level in patient tissue as well as in established animal models. To address functional roles we will use Villin-Cre mice to target genes of interest specifically in the gut. The
mice will be subjected to glucose-tolerance tests, assessed for gut morphology (e.g. L-cell density and glucose-transporter expression/localization), and given \(^3\)H-glucose to measure intestinal glucose uptake. We will also use intestinal cell lines and siRNA or CRISPR silencing to address the function of hits.

**Qualifications:**

We are seeking a highly motivated person with a PhD (Degree 2014-2017) in a relevant area and at least one first authorship publication. Excellence in molecular biology and state of the art histology. Proven skills in bioinformatics is meriting. A strong background in the diabetes field is a merit but not necessary. Excellence in the English language (written and spoken) is a prerequisite.

Eligible candidates must have obtained their PhD within the last three years. Moreover, eligible candidates must not have held positions at Lund University within the last two years.

**The application should contain:**

The application should include: CV, publication list with top 5 publications indicated, personal letter, reference letter from at least one internationally recognized senior scientist, diplomas of university degree and high school grades.

For further information please contact:
Nils Wierup, Research group leader
E-mail: nils.wierup@med.lu.se

**Application**

Application must state the reference number V 2017/825 and should be sent to HR Officer by e-mail: Sofia.Sonnerstedt@med.lu.se, CC to nils.wierup@med.lu.se

**Information regarding post doc scholarships at Lund University**

- The scholarship amounts are paid quarterly.

- The scholarship follows the regulations laid down by the University Vice-Chancellor (LS 2010/68, A13).

- The scholarship is intended for the holder’s own education/professional development and does not constitute remuneration for work or other service that has been carried out or will be carried out on behalf of the University.

- The scholarship does not give any entitlement to sickness benefit, parental allowance, holiday pay or pension.

- The host faculty/department and the scholarship holder shall draw up in writing an agreed plan for the studies/development.
• The Scholarship holder is to be informed about the length of the stay, assured social conditions, and continual review of the scholarship holder’s development.

• The Scholarship holder is to be informed about insurance covering the scholarship holder and the need to check his/her own insurance requirements.

• The scholarship holder is to be treated equally to students/researchers in the same situation but with different sources of funding.

• The scholarship holder is to be assured and to contribute to a good working environment.

• The Scholarship holder is to be informed about the risk of possible retrospective taxation in Sweden in cases where the scholarships are administered and paid out by LU and the scholarship holder gains employment at LU shortly after the period of the scholarship.

• There may be a risk of the scholarship holder being taxed in his/her home country; the scholarship holder should investigate this before the period of the scholarship.