



Dnr: V2021/2515

**LUNDS**  
UNIVERSITET

Medicinska fakulteten

*Institutionen för experimentell medicinsk  
vetenskap*

Lund University is one of Europe's leading universities. Here, history and tradition lay the ground for the study and research environments of tomorrow. We offer education and research within engineering, science, law, social sciences, economics and management, humanities, theology, fine art, music and theatre. Through interaction with business and the community we ensure that knowledge and innovations benefit society. 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:** V2021/2515

**Duration:** 6 months. The scholarship can be drawn for a total of two years.

**Starting time:** By agreement

### **Description:**

The Virus Biophysics group conducts research in physical and medical virology with focus on human herpesviruses. Our research has been at the forefront in this area for several years. The group is led by Dr. Alex Evilevitch and consists of both research and technical staff. The laboratory is located at the Biomedical Center in Lund, Sweden. You can read more about our research at [www.virus-biophysics.lu.se](http://www.virus-biophysics.lu.se)

Within the research group we foster an environment that is developing and stimulating for all employees and scholarship holders. We are now seeking a postdoctoral scholar in any of these fields: biophysics/virology/cell- and molecular biology/microbiology/biochemistry to study mechanism of herpesvirus infection and latency and participate in development of novel antiviral compounds.

One of the major challenges of healthcare in fighting herpes viral infections is the reservoir of latently infected cells, where the viruses go 'dormant' while getting passed on as the cell divides and thus showing no signs of infection. At any point, latent herpesviruses can reactivate, leading to so-called lytic

infection, producing many copies of themselves within their host, ultimately killing the cell. This latency-reactivation cycle that has been poorly understood and has challenged scientists for decades. In your postdoctoral project, you will investigate the fundamental mechanisms that underlie this tenacious viral infection cycle which will also help to reveal targets for the development of novel antivirals. Specifically, you will investigate how physical-chemical interactions between the molecules in the cell nucleus and viral genome regulate cell's "decision" between dormant and active states of viral replication.

### **Qualifications**

A postdoc has to have completed a doctoral degree (PhD or an equivalent degree) and have the following requirements fulfilled for employment:

- PhD in physics / chemistry / biophysics / structure biology / cell biology / virology / microbiology

Great emphasis will be placed on personal qualities.

Other merits include:

- research experience in fluorescence imaging
- research experience in atomic force microscopy (AFM)
- research experience in molecular virology

You will also be required to participate in conferences, grant- and paper writing, and student training.

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:**

Please submit your application with curriculum vitae and PhD Diploma.

### **Information:**

Associate Professor, Alex Evilevitch  
Tel: +46 (0) 46-222 09 47  
E-mail: Alex.Evilevitch@med.lu.se

### **Appointment procedure:**

Applications with CV is to be sent to Associate Professor Alex Evilevitch via email: Alex.Evilevitch@med.lu.se

Dnr V2021/ 2515 shall be indicated on the application.

### **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.