



NORDIC EMBL  
PARTNERSHIP FOR  
MOLECULAR MEDICINE

## Two-year post-doctoral position in Molecular Biology

*We are looking for a postdoctoral researcher in Molecular to the Department of Molecular Biology at Umeå University, Sweden. The opening is temporary with a competitive salary for two years (can be extended) and available immediately or as agreed.*

**Umeå University** is dedicated to providing creative environments for learning and work. We offer a wide variety of courses and programs, world leading research, and excellent innovation and collaboration opportunities. More than 4 400 employees and 34 000 students have already chosen Umeå University. We welcome your application!

**The Department of Molecular Biology** has about 200 employees. The department's main tasks involve research, graduate education, and undergraduate education as well as interactions with the community. For more information, see: [www.molbiol.umu.se](http://www.molbiol.umu.se)

### Project

The Cava lab at the Laboratory of Molecular Infection Medicine Sweden (MIMS) and the Department of Molecular Biology (Umeå University) studies cell wall biology and genetics in bacteria. Our goal is to improve the inventory of players in cell wall biogenesis, remodeling and regulation, characterize the function and interplay of known components, and evolve our work into quantitative studies and computational modeling. Gathered data will have an extraordinary potential as novel targets for the development of antimicrobials.

The recruited postdoc will focus on investigating bacterial cell wall dynamics and discovering novel cell wall regulatory partners. The candidate will perform state of the art UPLC-MS assays coupled with chemometric tools, live microscopy and transposon-sequencing screening amongst other biochemical, cell and molecular biology techniques.

### Qualifications

Candidate must hold a University degree in Molecular Biology or Microbiology equivalent to a European University PhD at the time of recruitment. You should be highly motivated, have very good communication skills with senior colleagues and peers and the ability to interact in a team. You must have a good working knowledge of standard molecular biology and biochemistry techniques (including DNA cloning, protein production and purification) and show proficiency in microbiology and basic microscopy methods. It will be particularly qualifying for the successful candidate to have demonstrated expertise in high-throughput screening methods. You need to be skilled in both oral and written communication in English

### Application

A complete application should be sent in English to Felipe Cava ([felipe.cava@umu.se](mailto:felipe.cava@umu.se)) including: (i) a cover letter summarizing your qualifications and motives for applying, (ii) a curriculum vitae, and (iii) the names and contacts of three references. Application submitted electronically (MS Word or PDF).

### Information

For further information please contact Dr. Felipe Cava, [felipe.cava@umu.se](mailto:felipe.cava@umu.se)

<https://thecavalab.com/>

<http://www.mims.umu.se/groups/felipe-cava.html>

<https://kaw.wallenberg.org/en/research/unearthing-bacterial-cell-wall-diversity-search-new-antibiotics>