



Expression of interest - Marie Skłodowska-Curie Individual Fellowships (IF)

DESCRIPTION:

University of Ljubljana (UL) was established in 1919 on the foundations of a long-established pedagogical tradition. It is a very large university, encompassing 26 member institutions: 23 faculties and 3 academies with 50.000 students, taking over 300 different undergraduate and postgraduate study programmes.

The University of Ljubljana is leading research institution in Slovenia, creating around 50% of research results in the country. In 2012 it was awarded the logo HR Excellence in Research following the adopted strategy for researchers' career development 2012-2016. UL is also at the top of EU13 research Universities with more than 160 FP7 projects, and is an important member of numerous international networks. UL is listed amongst the top 500 universities in the world according to the ARWU Shanghai, Times THES-QS and WEBOMETRICS rankings.

For more information on UL please visit our [website](#).

The goal of Individual Fellowships is to enhance the creative and innovative potential of experienced researchers wishing to diversify their individual competence in terms of skill acquisition through advanced training, international and intersectoral mobility.

More information on MSCA call go to:

<http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/calls/h2020-msca-if-2014.html>

UL is searching for a top-class post-doctoral researcher of any nationality interested in developing collaborative Marie Skłodowska Curie individual fellowship application in the field of biology, microbiology and molecular biology – supervisor: Prof. Darja ŽGUR BERTOK Ph.D.

University of Ljubljana, Biotechnical faculty is **playing a leading role** (publications in top international scientific journals) in the investigation of **antibiotics of Escherichia coli** (bacteriocins, regulation of their expression, their ecological role and application), **the SOS DNA damage repair system and E. coli virulence factors**.

Our laboratory is equipped with:

- Innova 2300, shaker for cultivation of bacterial cultures, New Brunswick Scientific
- Systems for gel electrophoresis and SDS PAGE, Western blot
- G BOX system for recording and analysing agarose and acrylimide gels, Bioimaging system Syngene
- Thermocyclers (PCR and Real-time PCR)
- UV/VIS spectrometer lambda B10, Perkin Elmer
- Ultracentrifuge L8-M, Beckman
- Centrifuge Sorvall superspeed RC2-B, Sorvall
- Akta FPLC system, Amersham Biosciences, HPLC
- CO2 incubator for cell cultures, Binder
- Laminar flow cabinet M12
- Aviv 75 spectropolarimeter
- Nikon microscopy (inverted and fluorescent)

RESEARCH FIELDS:

- Bacterial genetics,
- bacterial virulence factors,
- antibiotic resistance,
- environmental source of pathogenic bacteria,
- regulation of gene expression and
- pathogenesis of Escherichia coli.

ELIGIBILITY CRITERIA:

- Doctoral degree or at least 4 years full-time research experience (preferably in biology, microbiology or molecular biology)
- Must not have resided nor carried out his/her main activity (work, studies, etc.) in Slovenia for more than 12 months in the 3 years immediately prior to the call deadline.

EXPRESS YOUR INTEREST

Send us your **Expression of Interest** (CV (curriculum vitae) and brief description of your research area).

Please send your application by e-mail no later than Thursday 25. July 2014 to: MSCA@uni-lj.si