Postdoctoral fellowship

Design and synthesis of « Trojan horse » siderophore-antibiotic conjugates against pathogenic bacteria

The team «Bacterial Membrane Transport» is located in the Biotechnology School of Strasbourg (ESBS). This team brings together very diverse skills (organic chemistry, molecular biology, biophysic) focused on the elucidation of bacterial iron uptake systems. From this fundamental research we aim to develop new antibiotic strategies against pathogens responsible of severe infections in humans. In this context, the fellow will design and synthesize vectors mimicking bacterial siderophores. These vectors will be then conjugated to different types of antibiotics. The conjugates will use the specificity and efficiency of bacterial iron uptake systems to enter into bacteria. The fellow will be supervised by Dr. Gaëtan MISLIN (CNRS senior scientist, project manager).

Candidates for this position must hold a PhD in organic chemistry. A specialization, or knowledge, in bio-organic chemistry and/or medicinal chemistry would be particularly appreciated. In addition, taking into account the composition of our research team and its location, the candidate must have demonstrated ability to work/evolve in a multidisciplinary environment at the interface between biology and chemistry. Finally, candidates need to be fluent in English (read, spoken, written) and must have a good experience in characterization techniques (NMR, MS, etc.). The efficient use of computer tools (NMRNoteBook, SciFinder, electronic laboratory notebook, etc.) will be also an asset.

Financing : European Project ND4BB *Translocation*

Duration : 12 months

Starting : January/February 2017

Please address your candidature by email to **Dr. Gaëtan MISLIN**

mislin@unistra.fr

Including :

- C.V. with the scientific production (published publications, oral communications)
- Motivation letter
- Two references

References :


Our website (in French) :

http://irebs.cnrs.fr/spip.php?rubrique64