Swiss Institute of Bioinformatics

UNIL | Université de Lausanne

Post-doctoral position in the lab of Prof. Gfeller at the Ludwig Center for Cancer Research at University of Lausanne

Job description

We are looking for a highly motivated postdoctoral candidate to join our lab in Computational Cancer Biology.
Understanding the differences between malignant and healthy cells that are visible to the immune system is a key issue in cancer immunology and immunotherapy. To this end, both new experimental and computational approaches are playing an important role. The task of the recruited post-doc will be to develop machine learning tools to better predict immunogenic peptides and help understanding fundamental mechanisms of antigen presentation in cancer cells. To develop and train algorithms, the successful candidate will have access to recent HLA peptidomics data, including data generated by our collaborator, Dr. Bassani-Sternberg. Combining cutting-edge machine learning algorithms with novel experimental data will position us in a unique niche to make substantial contributions in antigen predictions in cancer, that could then guide immunotherapy approaches such as cancer vaccines.

Together with our experimental collaborators, we are located on the Epalinges campus of UNIL. Lausanne offers one of the best translational research environments in the field of cancer and immunotherapy with several world-renowned Institutes (Ludwig Center for Cancer research at UNIL, ISREC at EPFL, Oncology Department at CHUV) and cutting-edge computational infrastructures (Swiss Institute of Bioinformatics).

Profile requirements

PhD in Biology, Math, Physics or Computer science with demonstrated experience in Bioinformatics and at least one first-author paper in a peer-reviewed journal. Experience with protein sequence analysis and machine learning algorithms is a plus.

The candidate should have a strong interest in cancer and immunology-related research and excellent collaborative skills with experimental biologists. Good knowledge in programming and the ability to work in English (oral + written) are required.

Application

Please send your full application including motivation letter, CV, list of publications and the name of two or three references to: david.gfeller@unil.ch. Interviews are expected to take place in Autumn 2016.

Starting date

From 1st of October 2016.

Duration of contract

1 year (renewable).

Website

LICR webpage: http://www.unil.ch/licr/research/gfeller