

Postdoctoral Fellow and Ph.D. student in Computational Systems Biology at the Luxembourg Centre for Systems Biomedicine

The Luxembourg Centre for Systems Biomedicine (LCSB) was created within the Health Technologies Initiative from the Government of Luxembourg as one of the research priorities of the University of Luxembourg. The LCSB is an Interdisciplinary Centre of the University, independent of the faculties and it combines experimental and computational approaches to analyze complex biological systems and disease processes from a systems biology perspective. The Computational Biology Group (CBG) provides the LCSB with a solid infrastructure in developing theoretical framework for computational modeling on biomedical problems, especially in the area of network biology. The CBG group includes researchers with theoretical, computational and wet lab backgrounds, thereby providing an unusual interdisciplinary environment.

The Computational Biology Group seeks highly skilled and motivated Postdoctoral fellow and Ph.D. student to work on an exciting project on the application of network biology approaches to study the role of the niche in stem cell fate determination. In particular, the selected candidate shall develop a computational model of cell-cell interactions, using single-cell transcriptomics data, to identify signaling cues determining stem cell phenotypes. Computational predictions will be experimentally validated in animal models in collaboration with experimental partners.

Requirements of the ideal candidate:

- Ph.D. or Master degree in computer science, engineering, physics or a related discipline
- Strong computational skills
- Prior experience in mathematical modelling of biological networks is desired
- A strong first-author publication record in the fields of Bioinformatics and Computational Biology is required for the Postdoctoral candidate
- Excellent working knowledge in English.

We offer:

- Opportunity to do research into biomedical problems within a highly dynamic research institution (LCSB) and in collaboration with internationally recognized partners
- An exciting international environment
- A very competitive salary

For further information, please contact:

Prof. Dr. Antonio del Sol

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Applications should contain the following documents:

- A detailed curriculum vitae
- cover letter mentioning the reference number
- description of past research experience and future interests
- name and addresses of two or three referees

All applications should be sent preferably in electronic version as soon as possible to the following address:

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