Genome Institute of Singapore

A*STAR

Internship opportunities Genome Institute of Singapore

6 month research projects available

The Genome Institute of Singapore (A*STAR) offers scholarships for international students to pursue a computational biology research project for up to 6 months. Successful candidates will work on a full time research project in the team of Jonathan Göke. Our group works with transcriptomics and genomics data, we develop algorithms for large scale data analysis, and we apply machine learning techniques to integrate genomic and clinical data. Every student will have a dedicated computational project and will also be encouraged to co-author scientific publications.

Requirements:
The scholarships are available for undergraduate students in their third or fourth year, and to Master students. Students should have a background in bioinformatics, computer science, or statistics. Research internships are ideally suited to students interested in pursuing a scientific career. The official language in Singapore is English, so good communication skills in English are essential.

Contact:
Students who are interested in a research internship at the Genome Institute of Singapore can contact Dr. Jonathan Göke for additional details (gokej@gis.a-star.edu.sg). For information about research areas, please visit www.jglab.org or www.gis.a-star.edu.sg.


GIS@Biopolis

Selected Publications

- Göke, J., & Ng, H. H. (2016). CTRL+ INSERT: retrotransposons and their contribution to regulation and innovation of the transcriptome. ***EMBO Reports***, e201642743.
- Göke et al. (2015). Dynamic Transcription of Distinct Classes of Endogenous Retroviral Elements Marks Specific Populations of Early Human Embryonic Cells. ***Cell Stem Cell***, 16(2), 135-141.
- Lu et al. (2014). The retrovirus HERVH is a long noncoding RNA required for human embryonic stem cell identity. ***Nature Structural & Molecular Biology***. 21 (4), 423-425.
- Lu et al. (2013) SON connects the splicing-regulatory network with pluripotency in human embryonic stem cells. ***Nat Cell Biol***15(10) : 1141-52
- Göke et al. (2013). Genome-wide Kinase-Chromatin Interactions Reveal the Regulatory Network of ERK Signaling in Human Embryonic Stem Cells. ***Molecular Cell***, 50(6), 844-855.
- Göke et al. (2012). Estimation of pairwise sequence similarity of mammalian enhancers with word neighbourhood counts. ***Bioinformatics***, 28(5), 656-663.
- Göke et al. (2011). Combinatorial binding in human and mouse embryonic stem cells identifies conserved enhancers active in early embryonic development. ***PLoS Computational Biology***, 7 (12), e1002304.