KU LEUVEN

VIB

Postdoc position in Bioinformatics, Metagenomics and the Human Microbiome

The Raes lab (VIB, KU Leuven) is looking for a postdoc in the computational analysis of microbiome data, with a particular emphasis on human-associated microbial communities in health and disease.

Projects will focus on (i) bioinformatics/statistics method development for joint host and microbiota data analysis, multi-omics and clinical data integration and/or (ii) their application to large scale datasets generated within the Flemish Gut Flora project cohort (n>5000), in a wide range of disease cohorts as well as in international projects (e.g FP7 MetaCardis, H2020 AD-Gut).

We look for an excellent track record in (meta-)omics data analysis and strong scientific drive. We provide a stimulating and fun environment to pursue your scientific dreams.

VIB-KULeuven is an exciting, interdisciplinary research institute with excellent facilities and leading research groups in e.g. gastroenterology, oncology, immunology, microbiology & virology, clinical genetics/-omics, molecular biology and translational research. The Raes lab is located on the Gasthuisberg campus of the KU Leuven (Fac. of Medicine) and has on-site robotic sample processing, high-throughput computing resources as well as next-gen sequencing facilities (mi/next/hiSeq. PacBio, oxford nanopore). Postdoc salaries in Belgium are in the range of 2000-2300 euros/month after taxes and including health insurance.

Requirements

- PhD in bioinformatics, computational biology, datamining, biostatistics, population and/or statistical genetics, human microbiota, numerical/microbial ecology or equivalent
- Good programming skills (perl/python/ruby/java/C++ etc, SQL, R), proficiency in Unix/Linux and cluster expericence
- A strong track record in omics data analysis (e.g. (meta)genomics, transcriptomics, proteomics, metabolomics, epigenomics, genotyping data) is a plus
- Experience in clinical datamining/machine learning, biomarker detection is a plus

Interested candidates are encouraged to send their CV, along with a letter stating their interest and contact details of two references to raeslab@vib.be . Informal enquiries can also be addressed to the same email address. Further info on http://www.raeslab.org

Interested? Check out some of our recent work! (lab members in bold)

Falony G*, Joossens M*, Vieira-Silva S*, Wang J* et al (2016) Population-level analysis of gut microbiome variation. **Science** 352:560-4

Lima-Mendez G*, Faust, K*, Henri, N*, et al (2015) Determinants of community structure in the global plankton interactome. **Science** 348:1262073.

Vieira-Silva S*, Falony G* et al (2016) Species-function relationships shape ecological properties of the human gut microbiome. **Nature Microbiology** doi:10.1038/nmicrobiol.2016.88

Sabino J*, Vieira-Silva S* et al (2016) Primary sclerosing cholangitis is characterized by intestinal dysbiosis independent from inflammatory bowel disease. **Gut** pii: gutjnl-2015-311004

Forslund K*, **Hildebrand F***, Nielsen T*, **Falony G***, Le Chatelier E* et al (2015) Disentangling the effects of type 2 diabetes and metformin on the human gut microbiota. **Nature** 528:262-6

Faust K*, Lahti L* et al (2015) Metagenomics meets time series: Unraveling microbial community dynamics. **Current Opinion in Microbiology** 25:56-66