

OFFER: Postdoctoral Contract for Bioinformatics and Biostatistics of Microbiome data

DESCRIPTION:

The candidate will be responsible for (meta)genomic analysis of the intestinal microbiota and multidimensional data integration (metagenomics, metabolomics, epigenetics, immunologic, clinical etc.) and pathway/disease modelling. He/she will work in the context of the H2020 European Project Early Cause- Causative mechanisms & integrative models linking early-life-stress to psycho-cardio-metabolic multi-morbidity, which started in January 2020 and will last for four years. This project investigates biological mediators and environmental moderators of comorbidities in humans and animal models, with a focus on microbiome-mediating mechanisms.

The candidate will join the Research Group of Microbial Ecology, Nutrition & Health at IATA-CSIC in Valencia (Spain). The team has coordinated one of the largest European projects on the human microbiome and its role in metabolic and mental health (7FP EU project "MyNewGut). Currently, it is involved in many other national and European initiatives (MSCA-IF miVaO; MICRO-ILCs; MicrobiomeSupport, CIRCLES) in this field.

REQUIREMENTS AND EXPERTISE

- Next Generation Sequencing applied to metagenomics (assembly, annotation, etc.).
- Bioinformatics and Statistics for analysis, integration and visualization of multi-omics data
- Statistics: supervised and unsupervised analysis (linear discriminant analysis, latent modelling, PCA, clustering, machine learning tools based on deep learning, etc.)
- Computational languages: Java, Phyton, R/Bioconductor
- Good English communication skills.
- Good publications record.
- Initiative, independent thinking and capability to work in collaborative, international and multidisciplinary environments.

CONTRACT CONDITIONS

- Full time contract
- Salary according to candidate's experience.
- Duration up to four years.

APPLICATIONS

Send your CV and contact details of 2 reference researchers that are familiar with you to Ana Agusti (aagusti@iata.csic.es)/Yolanda Sanz (yolsanz@iata.csic.es) until 28th February 2020, indicating in the subject of the e-mail subject: "Offer for Bioinformatics"

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