



CIBIO - Centre for Integrative Biology
Trento, Italy

Trento, 25 Sept 2016.

Research associate, PhD and postdoctoral fellowships in computational metagenomics

The laboratory of Computational Metagenomics (<http://segatalab.cibio.unitn.it/>) at the Centre for Integrative Biology at University of Trento is seeking enthusiastic computational biologists to join the group on a recently funded ERC Starting grant and other already funded ongoing projects.

The laboratory employs experimental meta'omic tools and novel computational approaches to study the diversity of the microbiome and its role in human dysbiosis and infections. Current projects bring together computer scientists, microbiologists, statisticians, and clinicians.

We have immediate openings for postdocs, PhD students, and scientific programmers / data analysts with one or more of the following qualifications:

- strong background in scientific programming (incl. python or R) and the Unix environment
- strong experience in metagenomics and microbiome data analysis
- solid statistics/biostatistics/machine learning background
- familiarity with DNA extraction and sequencing library preparation
- experience in microbial genomics

In exceptional cases, we will consider applications of computer scientists without experience in bioinformatics and metagenomics.

The successful candidates will have to deal with in-house shotgun metagenomic data as well as large metagenomic datasets from international research consortia and will develop new computational tools to analyze microbiome integrating metagenomics, metatranscriptomics, metabolomic, and metaproteomic datasets. Large-scale comparative genomic analysis will also be performed exploiting the richness of metagenomic data analyzed with strain-level resolution. The successful candidate will take advantage from our international network of collaborations and can also spend some time in our wet lab for targeted validation experiments and, if interested, can have teaching responsibility.

If you are enthusiastic about computational biology and metagenomics and you are a talented quantitative researcher our laboratory can provide the ideal setting to perform cutting-edge research and to boost your career.

Interested candidates should send a CV, cover letter, and the contact information of at least one professional referee to nicola.segata@unitn.it

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