



"ALEXANDER FLEMING"
Biomedical Sciences Research Center

Call for Expression of Interest

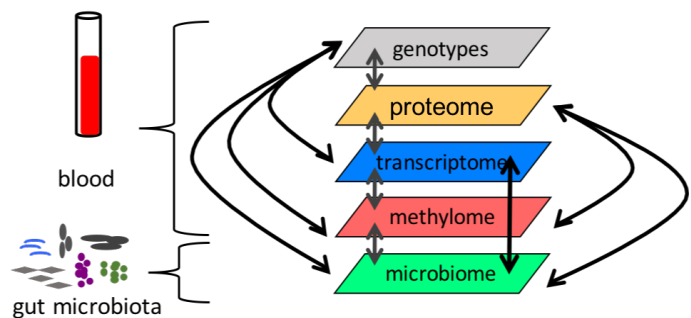
Postdoctoral Fellow, PhD Student, Staff Scientist Positions



The Dimas Lab is recruiting researchers at all levels (postdoc, PhD student, staff scientist) to join our team at **BSRC Alexander Fleming** in Athens, Greece, to work on an **ERC-funded multi-omics human systems biology project**. The group's research is interdisciplinary and covers human genomics, systems biology, statistical genetics, bioinformatics, and molecular biology.

Our group's main project addresses the molecular impact of dietary intake in humans. Dietary restriction is known to extend lifespan and healthspan in multiple species and likely has beneficial effects for human health. To address the molecular impact of a highly structured diet in humans, we have established the FastBio project (www.fastbio.gr). FastBio comprises individuals who follow a structured dietary regime specified by the Orthodox Christian Church (temporal abstinence from meat, dairy products and eggs for ~200 days annually) and individuals who follow a general-population, unstructured diet. We explore **multiple omics** levels at fasting and nonfasting timepoints to capture acute and long-term effects of diet. Molecular effects are studied in the context of embedded genetic variation, through transcriptomics, epigenomics, proteomics, metabolomics and investigation of the gut microbiome. Functional consequences are interrogated through cell culture.

We are seeking highly motivated individuals to join our group and take part in **analysis and integration of genotype, RNA-Seq, EPIC methylation array, Olink proteomics, metabolomics, and 16S rRNA-Seq data** in order to: a) uncover signatures linked to the nutritional environment, b) explore how diet affects molecular pathways linked to disease susceptibility, and c) interrogate whether diet can be used in combination with therapeutic agents to maximise their effect.



Candidates with **relevant experience/skills** will be considered for the following positions:

Postdoc: The ideal candidate will have a PhD in a quantitative discipline such as Computational Biology, Bioinformatics, Statistical Genetics, Biostatistics and related fields. She/he will have experience in analysing large-scale, biological datasets using R, python etc.

PhD student: The ideal candidate will have a degree in Computer Science, Statistics, Computational Biology, or in Biological Sciences, but with strong computational skills. Candidates who also hold an MSc in one of the above fields will be preferred.

Staff scientist: The ideal candidate will have a degree in Computer Science or a related field, and experience in processing and management of large-scale (preferably biological) datasets.



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Requests for more information and expressions of interest (**CV and cover letter, indicating position code: 202202_EoI_FastBio**) should be sent to Dr Antigone Dimas dimas@fleming.gr. For more information contact Dr Dimas at +30 210 9656310 (ext 143).

Deadline: 15 March 2022

BSRC Fleming is a top-ranked Greek non-profit research organisation focusing on scientific and technological excellence, training and innovation in biomedical sciences. The Center was established in 1998, and operates under the supervision of the General Secretariat for Research and Innovation (GSRI) of the Hellenic Ministry of Development and Investments. Competitive funding each year amounts to 75-85% of the total budget of the Center, an achievement that underlies Fleming's strategic prioritization of research and innovation. BSRC Fleming has gained international recognition for its pioneering research towards understanding the molecular and cellular basis of human diseases, such as autoimmune disorders, cancer, neurodegenerative conditions, osteoporosis, pulmonary fibrosis and others, and the development of new approaches for their diagnosis and treatment. Fleming's strength and international visibility lies on its focus and success in developing and characterizing animal models that mimic human disease and the Center has consequently invested heavily on related infrastructures. The Center has achieved top performance indicators of academic and research excellence while practices transparent and fair processes for all personnel recruitment, including researchers ensuring equal treatment of all applicants based solely on scientific merit, academic qualifications and expertise in specific research areas as required.