



"ALEXANDER FLEMING"  
Biomedical Sciences Research Center

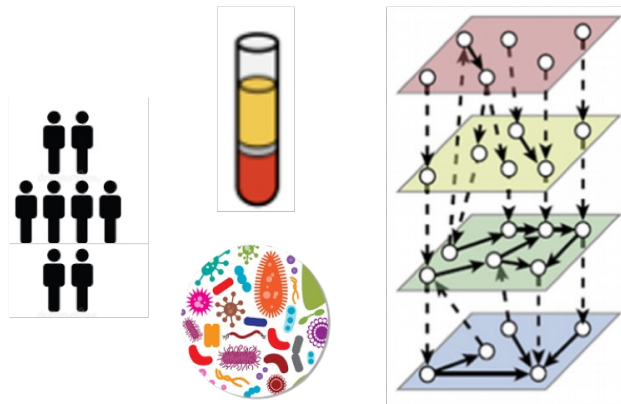
## Call for Expression of Interest

### Computational & Wet Lab Postdocs | Research Scientist

#### Exploring the molecular impact of intermittent dietary restriction in humans



Dietary restriction slows ageing, has a positive impact on health, and increases lifespan in model organisms. In humans, dietary restriction also has beneficial effects, but a lot remains to be elucidated. The FastBio (Fasting Biology) project aims to identify the molecular impact of intermittent dietary restriction by addressing **multiple molecular phenotypes and primary cell responses** *in vitro* in individuals who follow a restricted diet for ~200 days annually. FastBio includes the study of genomic, transcriptomic, epigenomic, metabolomic, proteomic and gut microbiome data and molecular signatures are compared to those from the general population. Our goal is to integrate data across molecular phenotypes in order to uncover comprehensive biological signatures linking dietary restriction to pathways underlying longevity, cellular ageing, and to risk for age-related disease. In parallel, we are addressing the functional consequences of dietary restriction through the study of immune system cells and of their enhanced responses *in vitro*.



**Computational positions (postdoc, research scientist):** We are seeking motivated, curious scientists to take part in analysis and integration of real multi-omics data, at the genotypic, gene expression, DNA methylation, proteomic, metabolomic and metagenomic levels. Ideally, candidates should have a biological background complemented by computational skills or vice versa, and experience in analysing large-scale, biological datasets.

**Wet lab position (postdoc):** We are seeking a motivated, curious postdoctoral researcher to study specific cell populations from PBMCs *in vitro*. Candidates must have experience in cell culture of primary immune cells and in flow cytometry-based techniques (e.g. immunophenotyping, cell sorting). This position would be ideal as a career development opportunity.



Our group is based at the "Alexander Fleming" Biological Sciences Research Center in Vari, close to Athens, in Greece. The project is funded through an ERC grant and the group's research is interdisciplinary, covering human genomics, systems biology, statistical genetics, bioinformatics, and molecular biology.

Informal requests for more information are welcome. Please contact Dr Antigone Dimas at [dimas@fleming.gr](mailto:dimas@fleming.gr) and at +30 210 9656310 (ext 143). Expressions of interest (CV and cover letter, indicating position code: **202207\_EoI\_FastBio**) should be sent to the above email address.

Deadline for submission is **15 September 2022** but we are seeking to fill in the positions the soonest possible - early applications are encouraged.



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*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.*