Postdoctoral Opportunity

GENOMIC EPIDEMIOLOGY BRANCH

The Genomic Epidemiology Branch (GEM) investigates lifestyle and genetic factors involved in cancer in diverse populations, with the aim of contributing to primary prevention of cancer, by conducting large multidisciplinary projects that involve collaboration with leading international academic, research and clinical centres.

A postdoctoral opportunity in **Computational biology** is immediately available within the branch to contribute to the *PROMINENT project - "Discovering the molecular signatures of cancer PROMotion to Inform prevention*" – funded by the Cancer Grand Challenge initiative (CRUK and NCI/NIH) and led by Dr Paul Brennan (head of GEM at IARC), Dr Allan Balmain (UCSF, US) and Dr Nuria Lopez Bigas (IRB, Spain). *PROMINENT* is a collaborative international study that will combine a large-scale biorepository including biological samples and extensive epidemiological and exposure data from cancer patients with state-of-the-art genomic technologies (e.g. RNA sequencing, duplex DNA sequencing, single cell multi-omics and spatial proteomics) to explore the role of known and novel risk factors in the promotion of tumour development, and elucidate the precise mechanisms by which these promoting factors stimulate the conversion of normal cells to neoplastic growth. The successful candidate will be supervised by Dr Paul Brennan and relevant Scientists in the Branch. He/she will conduct integrative analyses focusing on joint interpretation of omics data generated by the project and epidemiological information together with a multidisciplinary team of collaborators.

Essential selection criteria:
- A recent PhD in related fields such as: genomic epidemiology, biological data, bioinformatics, biostatistics and genetics.
- Strong background in the analysis of biological data, bioinformatics, and biostatistics.
- Strong communication skills, with the ability to undertake activities with collaborators but also independently.
- Strong English language skills both spoken and written.
- Willingness to learn new skills and techniques.
- Bring new ideas and be enthusiastic about cancer genomic epidemiology research.
- Prior experience manipulating multi-omics, epidemiological and clinical data using statistical methods.
- Strong background within statistical or scripting languages such a R or Python.

The postdoctoral opportunity is initially for one year with the expectation of renewal and is for candidates who have completed a Ph.D. or equivalent level. The IARC stipend is currently €2,820 per month. The cost of travel for the postdoc, and in certain circumstances for dependants, will be met. Dependence and health insurance allowances will be paid, if applicable. Applications from nationals from low and middle-income countries are encouraged. IARC welcomes around 40 postdoctoral scientists, at any one time. The postdoctoral scientist will be in an innovative and scientifically stimulating environment and will have opportunities to interact and collaborate with colleagues from

IARC and its worldwide networks. For more information about postdoctoral stays at IARC, please read the Postdoctoral charter [here](#)

Applicants should send a CV, including list of publications and a description of previous research experience, as well as a motivation letter and the names and addresses of two academic referees, by email to:

Email: gep@iarc.fr *(please mention in the title of your email "Postdoctoral opportunity – PROMINENT - IARC")*
Closing date: 18th August 2022

To the attention of: Dr Paul Brennan
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