

Date posted: june 30, 2005

Project — Analyzing the gene expression profiles of mouse dendritic leucocytes harbouring *Leishmania* parasites:

Description:

One postdoctoral position funded within the frame of a tripartite convention (Sanofi – Aventis/Ministry of Research / Institut Pasteur) is available immediately in the group of Dr. Geneviève Milon in the Parasitology Department at the Pasteur Institute.

The candidate will be involved in a project on a comparative transcriptional analysis of un-parasitized dendritic leucocytes/dendritic cells (DCs) and *Leishmania*-loaded DCs recovered either from *in vitro* cultures or from parasitized-loaded tissues. She/he will work closely with investigators with complementary multifaceted expertise in the fields of (a) the biology of parasitism (*in vitro* and *in vivo* approaches) (b) the global gene expression analysis (c) computational and statistical tools .She /he will be expected to master all the steps from the preparation of RNA samples, to data acquisition normalization and computational analysis. Good communication skills and the ability to work as part of a team are essential for this position.

Activities:

This post-doc will take primary responsibility for the use of Affymetrix mouse GeneChips, the pre-processing of scanned images (image analysis methods, data normalization), statistical analyses and gene expression data integration into biologically relevant pathways / networks.

Requirements:

The ideal candidate will have a Ph.D in bioinformatics, computational biology or biostatistic. She/he should have a strong experience in using state of the art microarray data analysis tools and software packages. Preference will be given to candidates who can also demonstrate a *bona fide* interest for and background in biological processes *per se*.

She/he will have a global vision of recent developments in various fields such as statistics, data mining, or data visualization. She /he will be capable of evaluating how these recently-published methods may contribute to the optimal analysis of gene expression data.

Conditions:

The position is available for 2 years. To apply, please e-mail a cover letter, emphasizing relevant background and project experience, a CV, a one-page statement of research interests, and arrange for two or three references to be sent. The present position call will remain open until filled.

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