HUMANITAS UNIVERSITY

Selection procedure for a Type B Research Fellowship in Life Sciences in compliance with art. 22 of Law 240/2010

Humanitas University invites applications for a position as Research Fellow in Life Sciences.

Research Program Title	Personalized medicine in allergy: high definition IgE profile
Research supervisor - Tutor	Prof. Giorgio Walter CANONICA
Scientific Area	06 Medical Sciences
Gross amount of the fellowship	20.000 Euro
Duration of the fellowship	12 months
Objectives of the research	Aim of this research will be the identification of an IgE response profile (but, in specific situation, IgG and IgA) toward an array of peptides, that can be associated to different clinical pictures and/or different responses to the treatment specific of Personalized Medicine.

The work place is in Pieve Emanuele - Milano.

A brief description of the project, activities to be carried out, mandatory requirements to take part into the selection process, information on the application procedure and on the selection criteria are presented in the following.

RESEARCH PROJECT:

Aim of this project of Personalized Medicine is to define the potential role of high-definition IgE profile in allergic patients. At present, no information is available on the differences between the sensitization and the allergy. In addition, no relevant biomarker has been described to identify the potential outcome of the treatment and/or the patient's risk of severe reactions. To face this problem, two strategies will be used. The first is based the in vitro activation of circulating basophils and the expected result is the definition of the experimental conditions suitable to distinguish

a non-symptomatic sensitization from a symptomatic allergy. Then, the IgE profile evaluated at peptide level in a group of relevant allergens, will be analysed.

ACTIVITIES TO BE CARRIED OUT:

The successful candidate will deal with:

1) Evaluation of the knowledges available at the beginning of the study.
2) Preparation of operative protocols to be used in both the provided strategies. In particular, definition of the conditions to be used for the basophil activation test and description of the peptide arrays to be assays;
3) Carrying out the tests provided for in the experimental protocols;
4) Statistical and critical evaluation of the results obtained;
5) Preparation of monthly reports focused on the activities of the relevant period and the obtained results. All tests will be carried out by using the tecniques of Good Laboratory Practice.

MANDATORY REQUIREMENTS:

In order to be considered for the post candidates must hold a Bachelor's degree obtained in accordance with DM 270/2004 or an equivalent Italian University degree or a comparable academic title granted by a foreign University (usually referred to as a Master's Degree) in Biological Sciences or equivalent and a PhD in Medicine or Biological Sciences (or equivalent) or, alternatively, a Medical Specialization Diploma in Clinical Pathology or equivalent.

SELECTION PROCESS:

The application for admission must be submitted at the following link**:**

https://pica.cineca.it/humanitas

No hard copy of the application must be sent by post.
At the first access, applicants need to register by clicking on “Register” and completing the requested data.
If applicants already have LOGINMIUR credentials, they do not need to register again. They must access with their LOGINMIUR username and password in the relevant field LOGINMIUR.
Applicants must enter all data necessary to produce the application and attach the required documents in PDF format.

As part of the selection process, a Selection Committee will evaluate the curriculum, titles and publications presented by the candidate.

SELECTION CRITERIA:

Preference will be given to candidates who have:

1) Previous experience in research laboratories;
2) Good technical skillness;
3) Expertise in data management;
4) Expertize in GLP;
5) Good knowledge of scientific English.

FURTHER INFORMATION:

For more details on the selection process please refer to the **Rectorate Decree n. 048/2018** (http://www.hunimed.eu/it/lavora-con-noi/) or send an inquiry to ufficiodocenti@hunimed.eu or telephone +39 02.8224.5642.