

RECRUITING AND TRAINING PHYSICIANS-SCIENTISTS TO EMPOWER TRANSLATIONAL RESEARCH
A MULTILEVEL TRANSDISCIPLINARY APPROACH FOCUSED ON METHODOLOGY, ETHICS AND INTEGRITY IN
BIOMEDICAL RESEARCH - 2018-2023



FMUP FACULDADE DE MEDICINA
UNIVERSIDADE DO PORTO



FONDAZIONE
MONDINO
Istituto Neurologico Nazionale
e Centro Scientifico IRECCS

RESEARCH TRAINING PROGRAM

I. General Information

Title of the research project:

The role of dipeptidyl peptidase 4 (DPP-4) in inflammatory bowel disease

Name and address of the department:

Faculdade de Medicina da Universidade do Porto (CIM - FMUP)
Department of Biomedicine – Pharmacology and Therapeutics Unit (3rd Floor, West Building)
Rua Dr. Plácido da Costa, s/n
4200-450
Porto
Portugal

Student's supervisor:

Fernando Magro

II. Description of the project

(max 1500 characters, spaces included)

Background: DPP-4 appears to be associated with the regulation of inflammatory processes in several inflammatory diseases, including IBD. However, its role is not yet fully elucidated and further studies need to be conducted to clarify the role of DPP-4 in IBD, as well as evaluate its potential use as a biomarker of disease activity and treatment response.

What is the aim of the project? To explore the association between DPP-4 and levels of inflammation, disease activity, and response to treatment, in patients with IBD.

What techniques and methods are used? Immunohistochemical analysis, cell culture and animal models of disease.

When did the department start working on this project? 2019

Type of research project:

Basic science Clinical research without lab work Clinical research with lab work

III. Student's involvement

The student will mainly observe YES NO
The student will observe the experiments but will be involved in data analysis YES NO
The student will take active part in experiments ("lab work") YES NO
The student will take active part in clinical examination (clinical research) YES NO
The student will be allowed to work with patients YES NO

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What are the tasks expected to be accomplished by the student?

Students are expected to observe the experiments and provide assistance according to their degree of skill/autonomy if required.

What is expected from/what will be the general outcome of the student?

- To prepare a poster / presentation / scientific report / abstract
- The student's name will be mentioned in a future publication
- Opportunity to present together with the supervisor the results on a conference
- No specific outcome is expected

IV. Requirements

What skills are required from the student?

Basic knowledge of laboratory etiquette and safety. Good communication skills.

Is there any special knowledge or a certain level of studies needed?

- None

Are there any legal limitatons in the student's involvement in the project? YES NO

V. Schedule

Duration of the project:

- 1 month
- 2 months
- 3 months

There are approximately 6 hours of work per day.

Available months:

- January
- February
- March
- April
- May
- June
- July
- August
- September
- October
- November
- December

How many students can you accept to the project at the same time? 2

Special remarks:

Students should bring a white coat.

NOTE: a scientific report is required at the end of the program