



INTERNSHIP PROPOSAL

Title: The challenges of a large-scale international biobank: from the selection of biological samples to their distribution.

Description: The Biobank of the International Agency for Research on Cancer (IARC, Lyon, France) is one of the largest biobanks in the world. It hosts samples included in approximately 50 different studies, which are conducted or coordinated by Center scientists. About 6 million samples from ~500,000 subjects are stored there. Among these samples, about 4 million are part of a large European study, the European Prospective Investigation into Cancer and Nutrition (EPIC) study, coordinated by IARC jointly with Imperial College in London.

The EPIC study is a large European study that was set up in the 1990s to investigate the relationship between nutrition, metabolism and cancer.

Furthermore, due to the relocation of IARC to a new building in the Lyon area, the IARC biobank will have to be transferred entirely to new premises from October 2022.

Within the framework of the operational management of the biobank and its transfer to new premises, a Master's internship is proposed, with the following objectives:

- 1) Participate in the daily operational activities of the biobank: receipt of biological samples, inventory of samples received, processing of samples, storage, distribution and disposal of samples.
- 2) Implementation of the different laboratory techniques used on the different platforms (DNA extraction, manual and automated aliquoting, cell culture and mycoplasma testing, pipette calibration)
- 3) Participation in the management of associated data resulting from the biobank's operational activities through various IT tools and systems
- 4) Participation in the associated document management resulting from the operational activities of the biobank
- 5) Participation in the preparation of the move to the New Building
- 6) Evaluation and critical review of scientific literature relevant to IARC biobanking activities

Contact:

Names of supervisors: Dr Zisis Kozlakidis / Dr Elodie Caboux / Christophe Lallemand

Address: International Agency for Research on Cancer, 150 cours Albert Thomas 69008 Lyon

Telephone: 04-72-73-84-11 / 04-72-73-80-39 / 04-72-73-80-84

email: kozlakidisz@iarc.fr / cabouxe@iarc.fr / lallemandc@iarc.fr

Financing: Yes (700€/month)

Period: as soon as possible for at least 3 months

Prerequisites/Comments:

Hepatitis B vaccination (immuno-serology results must be provided)