

Title: Bridging and modelling differences and similarities of heterogeneous populations in medical cancer care using medical data warehouses

Position: 12-24 months fellowship in Biostatistics (funding by French National Cancer Institute)– CDD

Requirement: PhD in Biostatistics or Statistics

Supervision: - Anne-Sophie Jannot and Sarah Zohar (INSERM, France)

- JB Brown and Satoshi Morita (Kyoto University, Japan)

Location: - French National Institute of Health and Medical Research (INSERM)

Centre de Recherche des Cordeliers, 15 rue de l'école de Médecine 75006 Paris

- 1 to 2 months/year in Japan : Department medical statistics and bioinformatics, Kyoto University graduate school of medicine, Kyoto, Japan

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A biostatistician position funded through a project to work on “Precision of anticancer therapy for metastatic cancers across Asian and Caucasian populations: a bridging study re-using health electronic records”, funded by French National Cancer Institute (InCa) in the Centre de Recherche des Cordeliers at the University Paris 5.

This is a 12 to 24 months fixed-term position in Paris and Japan. The position is based in the center of Paris, and is available from 1st June, 2017. Our objective is to develop a strategy to provide guidelines for dose reduction for chemotherapy in different subgroups of patients by re-using routine care data. This implies to tackle the high dimensionality of real life data, to be able to model the complex relationship between patients’ characteristics, biomarkers including pharmacogenomics markers, dose regimen and toxicity/efficacy.

We will undergo this project using data from the European Hospital Georges Pompidou and Kyoto University Hospital. Analysis will be carried independently on each site and statistical approaches will be shared. Therefore, the candidate will travel to Japan.

The successful candidate will possess a PhD in a relevant quantitative scientific discipline, such as biostatistics or statistics. Prior experience and advanced knowledge of computer sciences and programming in R or python, an interest in the analysis of Bayesian non-parametric model, are desirable. Prior knowledge and experience of longitudinal data analysis, including concepts of mixed-effect models and hands-on experience, is desirable. Ability to learn associated fields independently will be given preference. Publication writing skills is mandatory.