**Basics In Genomic epidemiology - BIGGY**

From June 7th to June 9th, 2022 (18 hours)

<table>
<thead>
<tr>
<th>Training fees:</th>
<th>Location: Carreire Campus - University of Bordeaux</th>
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<td>Individual participation: €450</td>
<td>Institutional participation: €900</td>
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**Instructors and coordinators:**
- Stéphanie DEBETTE (Coordinator)
- Aniket MISHRA
- David-Alexandre TRÉGOUËT
- Gaëlle MUNSCH
- Omar SOUKARIEH
- Quentin LE GRAND

**Objectives**

- Discover the basics of genetic epidemiology together with some recent advanced concepts
- To be able to conduct a Genome Wide Association Study (GWAS) from data quality control till the identification of the most plausible causal variants/genes
- Learn about additional and complementary approaches that go beyond DNA analysis and explore other molecular phenotypes

**Module Program**

- J1.1 From genes to proteins, and beyond
- J1.2 Basic concepts in genetic association studies
- J2.1 Genome Wide Association Studies (GWAS)
- J2.2 Beyond GWAS results
- J3.1 Genomics as a tool to explore causality
- J3.2 My first GWAS in practice

**Requirements**

Basics in statistical tests and regression analysis
Basics in R (recommended for the last session)