



**Pr Philippe FROGUEL**

Philippe Froguel is MD and PhD. He passed his Medical Degree in 1986 (Paris 6 University, St Antoine Medical School), and he obtained a PhD in 1991 (Paris 7 University). In 1995, he accepted a position of Head of Human Genetics at the CNRS Institute of Biology, Pasteur Institute, Lille, France. He is now Professor of Endocrinology-Diabetes at Lille University Hospital and chair of the Inserm-CNRS-Lille University-Pasteur-CHU unit "Fonctional (Epi)genomics and Mechanisms of Type 2 Diabetes and Related Diseases". He is head of PreciDiab, the national center for precision diabetic medicine whose objective is to develop new solutions to control diabetes and comorbidities. He is also Professor of Genomic Medicine at Imperial College London where he chairs the Department of Genomics of Common Disease in the School of Public Health.

Philippe Froguel scientific carrier is focused on the genetics of complex traits in human, especially in diabetes. Philippe Froguel identified many genes responsible for monogenic T2D and obesity, as well as genes increasing risk for common T2D. In 2007, he published the first Genome Wide Association Study (GWAS) in T2D. Philippe Froguel current research is mainly focused on the identification and functional analysis of rare mutations associated with T2D or obesity, on the impact of genome structure variation in metabolic diseases, on the role of epigenetic phenomena in T2D and obesity and on post GWAS meta-analysis of these diseases.

## Master of Biology and Health Lectures

### Abstract from Precision medicine Conference Thursday, February 18, 2021

#### On the way to precision medicine !

Precision medicine is about promoting preventive, diagnostic and curative medicine that is more effective, with fewer side effects and less expensive, based on individual, genetic, environmental and lifestyle characteristics. Modern genetics (pan-genomic analyzes and sequencing of the human genome) allows the progressive founding of this 21st century medicine. Diabetes and obesity were among the first frequent diseases to pave the way for the personalized medicine of tomorrow. The Lille research teams played a pioneering role in this process. Several examples will be given during the conference illustrating the promises of precision medicine.

**See you on February 18, 2021 - 6:15 pm**