

Professor Marc-Emmanuel Dumas

Faculty of Medicine, Department of Metabolism, Digestion and Reproduction
Chair in Systems Medicine

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Summary

Professor Marc-Emmanuel Dumas, PhD MEng MSc BEng BSc FRSB FRSC

Marc-Emmanuel Dumas is Chair in Systems Medicine, jointly appointed between the [Department of Metabolism, Digestion and Reproduction](#) and the [National Heart and Lung Institute](#). He is head of the [Section of Biomolecular Medicine](#), hosting state-of-the-art equipment and dedicated teams to metabolomics, crystallisation science and tissue culture. He is also Interim Head of the [Division of Systems Medicine](#) translating discoveries in genomics, proteomics, metabolomics and bioinformatics into therapeutic avenues.

He is director of Imperial's [Microbiome Network](#), a cross-faculty multidisciplinary network of excellence, made of >60 PIs and their groups to provide a unique focal point for research, teaching and public engagement activities around the microbiome at Imperial.

Research led by Professor Dumas targets innovative metabolomics approaches to better understand the key challenges in the integrative control of metabolism, blending genomics and microbiomics in systems medicine. He focusses mostly on the role of the microbiome (but not limited to) in metabolic and cardiorespiratory diseases as well as in chronic inflammation, including neuroinflammation, and certain types of cancers.

He is a [CNRS](#) Director of Research and group leader at U1283/UMR8199 at the European Genomic Institute for Diabetes in Lille, France and leads the Imperial-University of Lille-CNRS [International Research Project in Integrative Metabolism](#) which was launched in 2023. He also holds an Adjunct Professorship at McGill University's [Genome Innovation Centre](#) and [Department of Human Genetics](#) in Montréal, Canada.