

## Professor Davide Calebiro, MD PhD DSc FRCP

Davide Calebiro is Chair of Molecular Endocrinology and Wellcome Trust Senior Research Fellow at the Institute of Metabolism and Systems Research (IMSR) of the University of Birmingham and Co-Director of the Centre of Membrane Proteins and Receptors (COMPARE) of the Universities of Birmingham and Nottingham. He studied Medicine in Milan and Stockholm, and obtained a PhD in Molecular Medicine and a Clinical Specialisation in Endocrinology and Metabolic Disease from the University of Milan.

Between 2009 and 2017, he was a Group Leader at the Institute of Pharmacology and Toxicology and Rudolf Virchow Center of the University of Würzburg, Germany.

He leads a multidisciplinary research team comprising biologists, chemists, physicists, engineers and computer scientists focusing on the basic mechanisms of G protein-coupled receptor (GPCR) signalling and their alterations in endocrine, metabolic and cardiovascular diseases. To study GPCR signalling, they develop and use innovative optical methods based on FRET and single-molecule microscopy, which allow them to directly observe signalling events in living cells and tissues with unprecedented spatiotemporal resolution.

His major scientific contributions include the discovery that GPCRs are not only active at the plasma membrane but also at intracellular sites and that these receptors interact among themselves and with other membrane proteins to form dynamic nanodomains at the plasma membrane.

Davide's work has been published in prestigious scientific journals such as *Nature*, *Cell*, *New England Journal of Medicine*, *Journal of Clinical Investigation*, *PLoS Biology*, *PNAS*, *Nature Communications* and *Science Advances*, attracting several prizes and awards. He has served on multiple panels and committees, including the ENDO Annual Meeting Steering Committee and the MRC Molecular & Cellular Medicine Board.

