



**Sackler Faculty of Medicine & Cancer Biology Research Center
Special Seminar**

Prof. Carlos Caldas

**Professor of Cancer Medicine
Cancer Research UK Cambridge Institute**

Title:

“Tumor ecosystems- from prediction to modelling”

**Wednesday 18.5.22 14:00, Hall 119,
Sackler Faculty of Medicine.**

Carlos Caldas is Professor of Cancer Medicine at the University of Cambridge, and Head of the Breast Cancer Functional Genomics Laboratory at the Cancer Research UK Cambridge Institute. He is an Honorary Consultant Medical Oncologist and was the Founding Director of the Breast Cancer Programme at the Cambridge Cancer Centre. His research focus is the functional genomics of breast cancer and its biological and clinical implications. His laboratory redefined the molecular taxonomy of breast cancer, revealing novel subtypes and their respective drivers and multi-omic landscapes, robustly validated this new molecular taxonomy, and showed that it determines the clinical trajectories of patients. He led the studies that established ctDNA as a monitoring biomarker in breast cancer and as a liquid biopsy to unravel therapy resistance. His laboratory pioneered and developed the use of patient-derived tumour explants as models of breast cancer, in particular as a platform to characterize and perturb tumour ecosystems. In a recent landmark paper published in Nature his group showed, using multi-omics and machine learning, the biology of breast tumour ecosystems determines response to therapy. He has been distinguished by Web of Science as a Highly Cited Researcher in 2018, 2019, 2020 and 2021.