Prof. Gregory Hannon’s laboratory at the Cancer Research UK Cambridge Institute, at the University of Cambridge, is looking for a post-doc with experience in molecular and cell biology to work on a new project aimed at producing 3d molecularly annotated maps of tumors.

More in detail, the scope of this project (named IMAXT, from Imaging Molecularly Annotated Xenografts and Tumours) is to use high-resolution imaging to map the position of each cell in solid tumors, and then use in-situ analysis (i.e. In situ sequencing, multiplexed FISH and imaging mass cytometry) to profile each cell.

This is a very ambitious project, that we hope will have a transformative impact on the way the scientific community approaches the issues of tumour heterogeneity and tumour micro-environment. The project will bring together a very interdisciplinary team, combining molecular and cellular biology, microscopy, chemistry, and data analysis. Among the collaborators working with us are Dr. Carlos Caldas, Shankar Balasubramanian, Simon Tavare’ and Nic Walton (in Cambridge), Samuel Aparicio (University of British Columbia), Ed Boyden and Xiaowei Zhuang (MIT and Harvard University) and Johanna Joyce and Bernd Bodenmiller (Swiss Cancer Center and University of Zurich).

We are looking for a post-doc to work on the more biological aspect of the project, developing and maintaining mouse models of breast cancer (both syngeneic implants and patient-derived xenografts), helping us to establish the analysis pipeline (including FISH and mass cytometry protocols) and using the high-resolution data to study tumor microenvironment and heterogeneity.

Ideally, the candidate should have experience in molecular biology, cell biology and histology (i.e. sectioning and immunohistochemistry). Some experience in microscopy would also be very useful. Finally, any experience in working with mice would be welcome, as the role will require handling mouse colonies (the person we hire will have to apply for a UK animal use license).

The position is initially available for 3 years, and it is renewable. Standard stipend and benefits of the University of Cambridge apply.

This is the link to the job vacancy, including a more detailed description of the position and instructions on how to apply:  <http://www.jobs.cam.ac.uk/job/12472/> . The deadline for applications is Jan 17th, but there is a chance that we’ll extend it to Jan 30th. A document with more details on the job position is also attached.