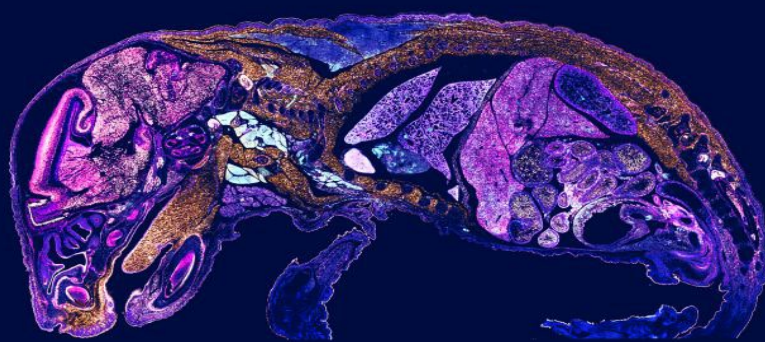# 10x Xenium Training
Three-Day Hands-On Course on Spatial Transcriptomics

From Panel Design and Tissue Preparation to Imaging and Data Analysis

MRC WIMM Advanced Single Cell Omics Facility (WASCOF)

Dates: Monday 13th – Wednesday 15th May 2024
Venue: MRC Weatherall Institute of Molecular Medicine, John Radcliffe Hospital, Headington, Oxford OX3 9DS

Register your Interest: Maria.Greco@imm.ox.ac.uk

#Single Cell, #Spatial Transcriptomics, #RNAseq

Course Program

Monday 13ᵗʰ May

Presenters: Dr Claudia Tamburini (FAS 10x Genomics); Dr Maria Greco (MRC WIMM);
Dr Esther Bridges (MRC WIMM); Dr Paola Vargas Gutierrez (MRC WIMM);
Dr Lai Cheng (MRC WIMM)

Time	Topic
10.30	**Preparing for Your Xenium experiment: Sample Preparation and Panel Design.** *Seminar Room*
11.15	**Coffee break**
11.45	**Xenium Workflow and Onboard Analysis.** *Seminar Room*
12.30	**Lunch Break**
13.00	**Practical Session: Sectioning and Mounting.** *Training Lab*
14.30	**Deparaffinization and Decrosslinking .** *Training Lab*
16.30	**Probe Incubation (O.N.).** *Training Lab*
16.45	**Coffee Break** **Q&A: Conclusions, participant Q&A and wrap up of Day 1**

Tuesday 14ᵗʰ May

Time	Topic
9.30	**Post Hybridization Wash & Ligation.** *Training Lab*
11.00	**Coffee break**
11.30	**Amplification & Post Amplification Wash.** *Training Lab*
12.45	**Lunch Break**
13.30	**Autofluorescence Quenching.** *Training Lab*
15.30	**Nuclei Staining.** *Training Lab*
16.30	**Coffee Break** **Q&A: Conclusions, participant Q&A and wrap up of Day 2**

Wednesday 15ᵗʰ May

Time	Topic
10.00	**Xenium Explorer and data analysis.** *Dr Claudia Tamburini, 10x Genomics.* *Seminar Room*
10.45	**Coffee Break**
11.00	**What can you do with your Xenium data?** *Dr Agne Antanaviciute, Computational Biologist, MRC WIMM.* *Seminar Room*
11.45	**Coffee Break**
12.00	In situ single cell analysis of bone marrow microenvironment in blood cancer, ***Dr Raymond Yip,*** *Walter and Eliza Hall Institute of Medical Research* *Seminar Room*
13.00	**Lunch Break**
14.00	**Xenium Platform Overview and Loading.** *Training Lab*
16.00	**Coffee Break** **Q&A: Conclusions, participant Q&A and course wrap up.**