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Molecular
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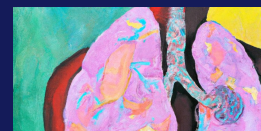
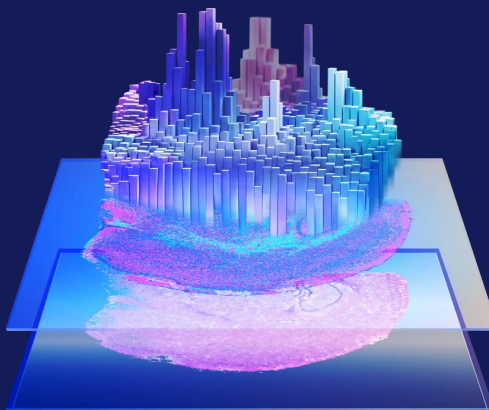
Medical
Research
Council



UNIVERSITY OF
OXFORD

10x Genomics Visium HD Training Three-Day Hands-On Course on Spatial Transcriptomics

**MRC WIMM Advanced Single Cell Omics Facility (WASCOF),
Oxford University**



Whole transcriptome discovery in the tissue context!

Learning Objectives

- FFPE Samples Requirement
- Tissue Sectioning and H&E (IF)
- Mastering the Visium CytAssist
- Visium Library Construction
- Quality Control
- Sequencing guidelines
- Loupe Browser



Dates: Wednesday 27th – Friday 29th November 2024
Venue: MRC Weatherall Institute of Molecular Medicine, John Radcliffe Hospital, Headington, Oxford OX3 9DS

Register your Interest:

<https://forms.gle/MkZ2VTvHVg8nDBch8>

or email Maria.Greco@imm.ox.ac.uk

Course Program

Wednesday 27th November

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

Time	Topic
10.00	Talk: Visium HD_Assay overview and sample preparation - WIMM Conference Room
11.15	Coffee break
11.45	Practical Session: Sectioning and Mounting. Training Lab
13.15	Lunch Break
14.00	Deparaffinization and H&E Staining, Tissue Imaging & 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

Thursday 28th November

9.30	Post Hybridization Wash & Probe Ligation. Training Lab
11.10	Visium HD Slide Preparation. Training Lab
11.30	Visium CytAssist Session for Probe release and Capture. Training Lab
13.30	Lunch Break
14.00	Pre-Amplification and SPRI-select. Training Lab
15.00	Talk: Visium HD_Assay workflow and technical considerations - WIMM Conference Room
16.30	Coffee Break Q&A: Conclusions, participant Q&A and wrap up of Day 2

Friday 29th November

9.30	Cycle number determination – qPCR. Training Lab
10.10	qPCR result explained & consideration. Training Lab
10.45	Sample Index PCR. Training Lab
11.00	Coffee Break
11.30	Post-sample Index PCR Cleanup - SPRI-select. Training Lab
12.00	Post-Library construction QC & Bioanalyzer results explained. Training Lab
13.00	Lunch Break
14.00	Talk: Data Overview_ Loupe Browser demo - WIMM Conference Room Talk: Visium HD enables spatial discovery in human tissue at single cell scale. Dr David Grainger - WIMM Conference Room
16.00	Coffee Break Q&A: Conclusions, participant Q&A and course wrap up.