

A Practical Guide to Pathology Research; Using FFPE Tissue

 Tuesday 2nd April, 9.30-16.45

 Max Rayne Auditorium, Royal Society of Medicine, 1 Wimpole Street, London, W1G 0AE

The meeting will focus on advances in tissue-based research and presents a practical guide to developing your research ideas. We will cover:

- Latest advances in technology including FFPE based whole genome sequencing, multiplex tissue assays and single cell analysis.
- Sources of research funding and opportunities for support and collaboration for pathology-based research.
- Practical guide for becoming involved with tissue-based research including; ethical and legal considerations, developing a tissue archive to support research, supporting clinical trials and developing ideas for translational research

Agenda

09:00 Arrival and registration		
09.30	Welcome and Introduction	Professor Gareth Thomas
Session 1: Single Cell FFPE Research		
Session Chair: Maggie Cheang		
09.35	Single gene and NGS from FFPE; DNA, RNA and Quality Control considerations	Dr Rachel Butler
09.55	Methylation analysis	Dr Tim Fenton
10.15	'Investigating stromal cells' role in tumour progression using single cell RNA sequencing and multiplexed immunostaining	Dr Chris Hanley
10.40	Immune profiling of the tumour microenvironment in prostate cancer using multiplex immunofluorescence	Dr Chara Ntala
10.50	MYD88 mutation testing in primary central nervous system lymphoma: A retrospective DNA analysis on fixed tissue specimens.	Dr Olimpia Curran
11.00	Panel Discussion	
11:10 Coffee		
Session 2: Global Analysis and Spatial Resolution Technology		
Session Chair: Gareth Thomas		
11.40	Molecular pathology and mass spectrometry imaging	Dr Tiffany Porta
12.00	Experimental Microscopy	Mr Steve Bagley
12.20	Integration of "omics" data with clinical trial outcomes from the phase III clinical trial TNT (Triple Negative Breast Cancer Trial)	Dr Holly Tovey
12.30	SWATH MS: Quantitative mapping of the soft tissue sarcoma by digitized proteome profiling	Dr Lukas Krasny
12.40	Panel Discussion	
12.50 Lunch		
13.00 Industry sponsored session: Resolving tumor heterogeneity in FFPE samples using DEPAArray(TM) digital sorting Dr Chiara Mangano		
Session 3: How to turn your pathology archive into a research tissue bank		
Session Chair: Guy Betts		
13.50	Turning a pathology archive into a research tissue bank	Dr Bridget Wilkins
14.10	How to ensure sample quality for research	Ms Jane Hair
14.30	From pathology archive to targeted therapy	Professor Gareth Thomas
14.50	Panel Discussion	
15.00 Coffee		
Session 4: Research collaboration		
Session Chair: Susan Richman		
15.30	Pathology in clinical trials	Dr Nick West
15.50	Stratified Medicine Programme 2: The importance of Pathology	Dr Emily Shaw
16.10	Clinical trials bio-repositories: Genomics in Context	Dr John Bartlett
16.35	Panel Discussion	
16.45	Summary and award ceremony	Organising committee

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