

# Oxford Single Cell Biology Symposium

Tuesday, 3<sup>rd</sup> September 2019

Medical Sciences Teaching Centre, South Parks Road, Oxford, OX1 3PL

09.15 – 09.25	<b>Welcome</b> by <i>Doug Higgs</i> , WIMM Director		
	<b>Chair: Adam Mead</b>		
09.25 – 09.40	Neil Ashley	WIMM	The WIMM Single Cell Facility - Update
09.40 – 09.55	Rory Bowden	WHG	The WHG Single Cell Facility - Update
09.55 – 10.15	Caleb Webber	DPAG	The first human single cell atlas of the Substantia nigra reveals novel cell-specific pathways associated with the genetic risk of Parkinson's disease and neuropsychiatric disorders.
10.15 – 10.35	Florian Klimm	Statistics	Functional module detection through integration of single-cell RNA sequencing data with protein interaction networks
10.35 – 10.55	Frank Penkava	Botnar	Single-cell RNA sequencing reveals clonal expansion of pro-inflammatory synovial CD8 T cells in psoriatic arthritis
10.55 – 11.25	<b>Break</b>		
	<b>Chair: Beth Psaila</b>		
11.25 – 11.45	Jordi Solana	Brookes	Using single-cell transcriptomics and planarians to study stem cells, their differentiation and their evolution
11.45 – 12.05	Rachael Bashford-Rogers	WHG	Investigating the Adaptive Immune Responses in Pancreatic Pathologies (The PancrImmune study)
12.05 – 12.25	Kathrin Jansen	KIR	Distinct fibroblast subsets drive inflammation and damage in arthritis
12.25 – 13.00	Samra Turajlic	Crick	Evolution of metastatic clear cell renal cell carcinoma
13.00 – 14.00	<b>Lunch</b>		
	<b>Chair: Rory Bowden</b>		
14.00 – 14.10	James Hargreaves	10X	What can 10x Genomics do for my research?
14.10 – 14.30	Raissa Kay	Harwell	Understanding gonadal sex reversal at the single cell level
14.30 – 14.50	Steve Twigg	WIMM	Single cell analysis of cranial sutures
14.50 – 15.10	Beth Psaila	WIMM	Using single cell multi-omics for novel target discovery in myeloproliferative neoplasms
15.10 – 15.30	Zhiyuan Hu	WIMM	Single-cell RNA-seq of normal cell-of-origin reveals non-genetic heterogeneity of serous ovarian cancer
15.30 – 15.50	<b>Break</b>		
	<b>Chair: Doug Higgs</b>		
15.50 – 16.40	Alex Shalek	MIT	Identifying and rationally modulating cellular drivers of enhanced immunity
16.40 – 16.50	<b>Closing Remarks</b> by <b>Doug Higgs</b>		