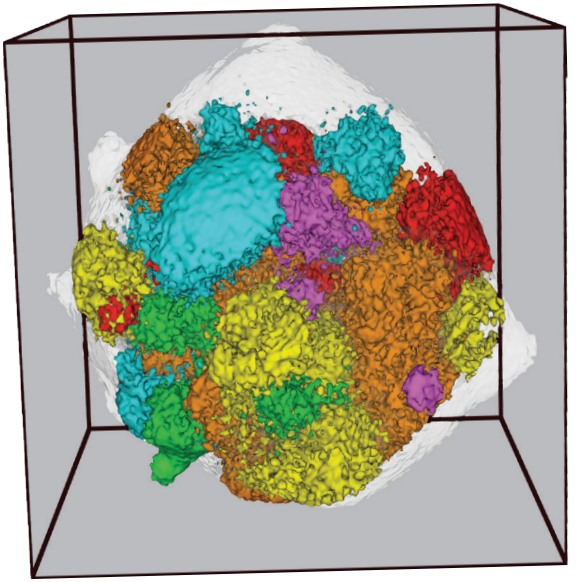
Cancer Research UK Cambridge Institute

Annual International Symposium

Unanswered Questions: Tumours at Cellular Resolution



4 – 5 March 2016

UNIVERSITY OF CAMBRIDGE

CANCER RESEARCH UK | CAMBRIDGE INSTITUTE

Programme

9.30-9.35	Welcome from Simon Tavaré
Session 1 Chair:	Tissue architecture: imaging and bioengineering John Marioni Cancer Research UK Cambridge Institute and EBI
9.35-9.40	Session introduction by John Marioni
9.40-10.10	Mikala Egeblad Cold Spring Harbor Laboratory Caught in the act: cancer cell activities revealed by imaging in live tissues
10.10-10.40	Lucas Pelkmans University of Zurich Control of transcript variability in single mammalian cells
10.40-10.55	*Selected talk from submitted abstracts:* to be confirmed
10.55-11.25	Coffee/tea
11.25-11.55	Alison McGuigan University of Toronto TRACER: An engineered tumour for exploring cellular phenotype and microenvironment in hypoxic gradients
11.55-12.25	Itai Yanai Technion - Israel Institute of Technology Deciphering the expression of all genes in all cells throughout the development of the nematode *C. elegans*
12.25-13.10	"Unanswered questions" panel discussion introduced by John Marioni, Cancer Research UK Cambridge Institute and EBI
13.10-15.00	Lunch (and poster session)

Session 2 Chair:	Approaches to understanding tumours at cellular resolution Simon Tavaré Cancer Research UK Cambridge Institute
15.00-15.05	Session introduction by Simon Tavaré
15.05-15.35	Rahul Satija New York University Learning the 'metadata' of the cell with single cell genomics
15.35-16.05	Je H. Lee Cold Spring Harbor Laboratory Integrating positional information, single cell heterogeneity, and gene expression in situ to elucidate forces that drive clonal evolution
16.05-16.20	*Selected talk from submitted abstracts:* to be confirmed
16.20-16.50	Coffee/tea
16.50-17.20	Alex Van Oudenaarden Hubrecht Institute Revealing novel cell types and cell-cell interactions using single-cell transcriptomics
17.20-17.50	William Greenleaf Stanford University ATAC-ing gene regulation heterogeneity at the single cell level
17.50-18.35	"Unanswered questions" panel discussion introduced by Simon Tavaré, Cancer Research UK Cambridge Institute
18.35	Drinks reception and buffet dinner at CRUK Cambridge Institute

9.00-10.00	Light breakfast at the CRUK Cambridge Institute
Session 3 Chair:	3D analysis of transcriptional and mutational profiles Duncan Odom Cancer Research UK Cambridge Institute
10.00-10.05	Session introduction by Duncan Odom
10.05-10.35	James Hicks University of Southern California Assessing cancer complexity in solid tumors and circulation at the single cell level
10.35-11.05	Peter Campbell Wellcome Trust Sanger Institute Interrogating the architecture of cancer genomes
11.05-11.20	*Selected talk from submitted abstracts:* to be confirmed
11.20-11.50	Coffee/tea
11.50-12.20	James Eberwine University of Pennsylvania Single cell/subcellular variability and theories of cellular phenotype
12.20-12.50	Ehud Shapiro Weizmann Institute of Science Cell lineage analysis for the study of cancer dynamics
12.50-13.35	"Unanswered questions" panel discussion introduced by Duncan Odom, Cancer Research UK Cambridge Institute
13.35-14.30	Lunch

Session 4:	Functional and phenotypic diversification of tumour cells
Chair:	Greg Hannon Cancer Research UK Cambridge Institute
14.30-14.35	Session introduction by Greg Hannon
14.35-15.05	L. Stirling Churchman Harvard Medical School Synchronized mitochondrial and cytosolic translation programs
15.05-15.35	Christina Curtis Stanford University School of Medicine Quantifying the evolutionary dynamics of human tumor growth and progression
15.35-15.50	*Selected talk from submitted abstracts:* to be confirmed
15.50-16.20	Coffe/tea
16.20-16.35	*Selected talk from submitted abstracts:* to be confirmed
16.35-17.05	Caroline Dive Cancer Research UK Manchester Institute Lung Cancer Circulating Tumour Cells – what are they good for?
17.05-17.50	"Unanswered questions" panel discussion introduced by Greg Hannon, Cancer Research UK Cambridge Institute
17.50-18.00	Announcement of poster prize winners (prizes sponsorsed by Nexcelom) and symposium close
18.30	Drinks reception at Westminster College followed by symposium dinner at 19.00