

## Hybrid Conference Programme

19:15

Bar open (card payments only)

Start (BST)	Finish (BST)	Presenter details
Wedne	sday 8 Ma	y 2024
12:00	12:55	Registration, lunch and networking
12:40	12:55	Briefing for Keynote & Session 1 speakers, microphone runners, chair, moderator & committee - Auditorium
12:55	13:10	Welcome
		Wellcome Connecting Science: Jane Murphy, Wellcome Connecting Science, UK
		Scientific Programme Committee:
		Athena Aktipis, Arizona State University, USA Rebecca Fitzgerald, University of Cambridge, UK
		Morilitz Gerstung, Deutsches Krebsforschungszentrum (DKFZ), Germany
		Carlo Maley, Arizona State University, USA
13:10	14:10	Keynote 1
		Chair: Moriitz Gerstung, Deutsches Krebsforschungszentrum (DKFZ), Germany Moderator: Carlo Malev. Arizona State Universitv. USA
		Understanding evolutionary trajectories of Barrett's to intercept oesophageal cancer Rebecca Fitzgerald, University of Cambridge, UK
14:10	14:15	Comfort break
14:15	15:45	Session 1: Phenotypic plasticity and Evolution of Therapeutic Resistance
		Chair: Moriitz Gerstung, Deutsches Krebsforschungszentrum (DKFZ), Germany Moderator: Carlo Maley, Arizona State University, USA
14:15	14:45	Mechanosensing in metastatic cancer <u>Laura Machesky, Cambridge, UK</u>
14:45	15:15	Cell state switches and local adaptation in cancer: insights from multi-omics, spatial and Al approaches Maria Secrier, University College London, UK
15:15	15:30	Intra-Tumour Evolutionary Dynamics Shaped by Inter-Clonal Synergistic Cooperation Can Enhance Metastasis Caroline Carneiro, University of New Brunswick, Canada
15:30	15:45	Evolvability Underlies Treatment Resistance: The Paradoxical Role of the Mutator Phenotype David Basanta, Moffitt Cancer Center, United States
15:45	16:30	Refreshment break and networking
16:15	16:30	Briefing for Session 2 speakers, microphone runners, chair and moderator - Auditorium
16:30	18:00	Session 2: Spatial Biology and Ecology
		Chair: Rebecca Fitzgerald, University of Cambridge, UK Moderator: Athena Aktipis , Arizona State University, USA
16:30	17:00	MicroLocation, Location, Location; the gastric microbiota invades the lamina propria in Helicobacter pylori-associated gastric carcinogenesis <u>Amanda Rossiter, University of Birmingham, UK</u>
17:00	17:15	Leveraging Spatial Transcriptomics to Map Complex Genotype-Phenotype Relationships in an Autochthonous Mouse Model of Tumour Heterogeneity  Artem Lomakin, DKFZ, Germany
17:15	17:30	Immune selective pressure drives loss of clonal neoantigens in primary human tumors  Elizabeth Borden, University of Arizona College,USA
17:30	17:45	Rewinding the tape: contingencies and constraints in early kidney cancer evolution  Scott Shepherd, The Francis Crick Institute, UK
17:45	18:00	Modelling the effect of spatial heterogeneity in spatial structure and microenvironment on the evolutionary dynamics of precancer Alvina Adimoejia, Stanford University, USA
18:00	18:15	Poster pitch talks for odd number posters
18:15	19:15	Poster session 1 - odd number posters with drinks reception
19:15	20:30	Dinner



nursday	9 May 2	024
09:15	09:30	Briefing for Session 3 speakers, microphone runners, chair & moderator - Auditorium
09:30	11:00	Session 3: Modelling the Evolution of Cancer
		Chair: Robert Noble, University of London, UK Moderator: Athena Aktipis, Arizona State University, USA
09:30	10:00	Modelling somatic mutation evolution in human tissues using Epithelioids
		David Fernandez Antoran, Fundación Instituto de Investigación Sanitaria Aragón, Spain
10:00	10:15	Positive and negative subcional selection in clear cell renal cell carcinoma  Diana Alexander, Wellcome Sanger Institute, UK
10:15	10:30	Punctuational evolution is pervasive in metastatic dissemination  George Butler, Johns Hopkins University, USA
10:30	11:00	Tracking the evolutionary dynamics of 2000 lymphoid cancers <u>Trevor Graham, Institute of Cancer Research, UK</u>
11:00	11:30	Refreshment break and networking
11:15	11:30	Briefing for Session 4 speakers, microphone runners, chair & moderator - Auditorium
11:30	13:00	Session 4: Multicellularity in Cancer
		Chair: Aurora Nedelcu, University of New Brunswick, Canada Moderator: Moderator: Athena Aktipis, Arizona State University, USA
11:30	12:00	Competition between unicellular and multicellular life cycles
		Arne Traulsen, Max-Planck-Institute for Evolutionary Biology, Germany
12:00	12:30	Immune recognition of evolving pathogens  Michael Lässig: University of Cologne, Germany
12:30	12:45	Pan-organ analysis of driver gene selection during cancer initiation Faiz Jabbar, The Francis Crick Institute, UK
12:45	13:00	Mechanisms and evolutionary significance of hyperploidy variations in a long-lived parasitic cancer Erika Buioli, CNRS, France
13:00	13:45	Lunch and networking
13:45	14:25	Illustrator session - Alex Cagan, Wellcome Sanger Institute, UK
14:20	14:30	Briefing for KNS microphone runners, chair & moderator - Auditorium
14:30	15:30	Keynote
		Chair: Moriitz Gerstung, Deutsches Krebsforschungszentrum (DKFZ), Germany Moderator: Athena Aktipis. Arizona State Universitv. USA
		Clonal selection in normal tissues and its relation to cancer risk <u>Núria López-Bigas, Institute for Research in Biomedicine Barcelona, Spain</u>
15:30	16:00	Refreshment break and networking
15:50	16:00	Briefing for Session 5 speakers, microphone runners, chair & moderator - Auditorium
16:00	17:30	Session 5: Beyond the genome
		Chair: Athena Aktipis, Arizona State University, USA Moderator: Rebecca Fitzgerald, University of Cambridge, UK
16:00	16:30	Enhancer hijacking in AML Christoph Plass, German Cancer Research Centre (DKFZ), Germany
16:30	16:45	Horizontal Transfer of Nuclear DNA in Transmissible Cancer Kevin Gori, University of Cambridge, UK
16:45	17:00	Outcomes of natural and experimental infection of soft-shell clams with a transmissible cancer Michaeal Metzger, Pacific Northwest Research Institute, USA
17:00	17:30	The evolution of two marine transmissible leukaemias colonizing the coasts of Europe  Jose Tubio, Center for Research in Molecular Medicine and Chronic Diseases, Spain
17:30	17:45	Poster pitch talks for even number posters
17:30 17:45	17:45 18:45	Poster pitch talks for even number posters  Poster session 2 - even number posters with drinks reception



9:15	09:30	Briefing for Session 6 speakers, microphone runners, chair & moderator - Auditorium
9:30	11:00	Session 6: Aging and Cancer
		Chair: Carlo Maley, Arizona State University, USA
		Moderator: Moriitz Gerstung, Deutsches Krebsforschungszentrum (DKFZ), Germany
09:30	10:00	Exploring mutational landscapes and selection patterns in normal aging tissues
		Raheleh Rahbari, Wellcome Sanger Institute, UK
10:00	10:15	Stem and progenitor cell dynamics define oncogenic competence of leukemic drivers
		Verena Korber, Weatherall Institute of Molecular Medicine, UK
10:15	10:30	Tumor heterogeneity and clonal evolution in Opisthorchis viverrini-associated cholangiocarcinoma
		Sirinya Sitthirak, Faculty of Medicine, Khon Kaen University, Thailand
10:30	11:00	Evolutionary compromises: Exploring cancer in the animal kingdom
		Amy Boddy, University of California Santa Barbara, USA
11:00	11:45	Refreshment break and networking
11:30	11:45	Briefing for Keynote Speaker, Scientific Committee Chair and moderator - auditorium
11:45	12:45	Keynote
		Chair: Rebecca Fitzgerald, University of Cambridge, UK
		Moderator: Athena Aktipis, Arizona State University, USA
		Somatic Evolution, Cancer, and Our Inevitable Decline with Age - Inextricably Linked
		James DeGregori, University of Colorado, USA
12:45	13:00	Closing remarks and prize presentation
		Scientific Programme Committee:
		Athena Aktipis, Arizona State University, USA
		Rebecca Fitzgerald, University of Cambridge, UK
		Moriitz Gerstung, Deutsches Krebsforschungszentrum (DKFZ), Germany Carlo Maley, Arizona State University, USA
		Carlo Indicy, Arizona State Oniversity, 63A
	40.50	
13:00	13:50	Lunch and departures
13:00 13:50	13:50	Lunch and departures  Coach departures for Stansted and Heathrow airports