



UCL Cancer Symposium

Kennedy Lecture Theatre, UCL Great Ormond Street Institute of Child Health

9:00-18:30 | Wednesday 17 May 2023

09:00 – 09:30 Registration

09:30 – 09:35 Welcome and Introductions

Professor David Lomas, Vice-Provost (Health) and **Professor Daniel Hochhauser**, Co-Chair, UCL Cancer Domain

09:35 – 11:15 Session 1 - Major Study Updates

Chair: Dr Shibani Nicum, Associate Professor in Medical Oncology, Faculty of Medical Sciences

Re-IMAGINE – the gateway to a biopsy-free future?

Professor Mark Emberton, Dean, Faculty of Medical Sciences

Optimising first-line systemic treatment for advanced prostate cancer

Professor Gert Attard, Chair of Medical Oncology/Honorary Consultant, UCL Cancer Institute, Faculty of Medical Sciences

Protons - opportunities to develop new treatment

Dr Maria Hawkins, Professor of Radiation Oncology and Honorary Consultant, Faculty of Engineering Science

TRACERx understanding the past to predict the future

Dr Ariana Huebner, Cancer Genome Evolution Research Group, Cancer Research UK Lung Cancer Centre of Excellence, UCL Cancer Institute

National Cancer Imaging Translational Accelerator (NCITA)

Professor Shonit Punwani, Professor of Magnetic Resonance and Cancer Imaging, Faculty of Medical Sciences

11:15 – 11:45 Networking & Poster Break

11:45 – 11:55 Rethinking Cancer - Communications framework for cancer at UCL

Professor Tariq Enver, Director, UCL Cancer Institute, Cancer Lead, UCLP AHSC, Lead, CRUK City of London Centre

11:55 – 12:40 Session 2 - Cancer Grand Challenges - Harnessing our Biology

Chair: Dr Martin Pule – Grand Challenges Overview

The study of extrachromosomal DNA and cachexia in metastatic disease

Dr Mariam Jamal-Hanjani, Senior Clinical Lecturer and Honorary Consultant in Translational Lung Oncology, Faculty of Medical Sciences

Next Generation engineered T cells for childhood solid tumours

Dr Karin Straathof, Associate Professor Tumour Immunology, UCL Cancer Institute & Honorary Consultant Paediatric Oncology, Great Ormond Street Hospital

12:40 – 13:10 Early Career Speaker Session

Chairs: Dr Pilar Acedo, Co-chair UCL Cancer Domain Early Careers Network and Dr Ilona Kubajewska, Co-chair UCL Cancer Domain Early Careers Network

Immuno-oncology biomarkers for improved diagnosis of cholangiocarcinoma in primary sclerosing cholangitis: insights from the inflammatory and fibrotic tumour microenvironment

Andrés Garcia-Sampedro, Institute for Liver & Digestive Health

Modelling the interactions between DNA repair and inflammation offers new insight into breast cancer treatment

Daniel Jacobson, Department of Pathology, UCL Cancer Institute

Non-invasive Microstructural Parameter Estimation with Deep Learning for Prostate Cancer

Snigdha Sen, Centre for Medical Imaging, Department of Computer Science

13:10 – 14:10 Lunch & Poster Break

14:10 – 15:50 Session 3 - Computational Cancer - Engineering Better Outcomes

Chair: Professor Philip Luthert, Professor of Pathology, UCL Institute of Ophthalmology, Faculty of Brain Sciences

Evolutionary ratchets and cancer fate selection throughout stages of carcinogenesis

Dr Benjamin Hall, Royal Society Research Fellow, Department of Medical Physics and Biomedical Engineering, Faculty of Engineering Science

Medical imaging and modelling in radiotherapy planning, verification and follow-up

Dr Catarina Veiga, Senior Royal Academy of Engineering Research Fellow, Centre for Medical Image Computing, Department of Medical Physics & Biomedical Engineering, Faculty of Engineering Science

Understanding the anti-tumour immune response through reverse translation

Dr Kevin Litchfield, Principal Research Fellow, Faculty of Medical Sciences

Genomic and digital pathology approaches to elucidate G0 arrest states in cancer

Dr Maria Secrier, Lecturer in Computational Biology, Faculty of Life Sciences

Natural language processing of histopathology reports with a focus on immunohistochemistry

Dr Adam Levine, NIHR Academic Clinical Lecturer in Histopathology, UCL Cancer Institute and UCLH Department of Cellular Pathology

15:50 – 16:20 Networking & Poster Break

16:20 – 17:40 Session 4 - Cancer: A Wider Perspective – Leaving no one Behind

Chair: Professor Yanlan Mao, Professor of Developmental Biophysics, UCL LMCB, and Deputy Director, Institute for the Physics of Living Systems, UCL LMCB

Social determinants of health and health inequalities

Professor Peter Goldblatt, Senior Advisor, UCL Institute of Health Equity

Lung Cancer Promotion by Air Pollutants

Dr William Hill, Postdoctoral Fellow, Cancer Evolution and Genome Instability lab, The Francis Crick Institute

Harnessing advanced materials and machine learning for early disease detection

Professor Rachel McKendry, The London Centre for Nanotechnology and Division of Medicine, UCL and Director of the i-sense EPSRC IRC in Early Warning for Infectious Diseases and AMR

Combining mathematical modelling, imaging and machine learning to better understand barriers to successful cancer therapy

Professor Simon Walker-Samuel, Vice Dean (Research), Faculty of Medical Sciences and Co-Director, Centre for Computational Medicine

17:40 - 17:50 Prize Giving & Closing Remarks

Professor Geraint Rees, Vice-Provost (Research, Innovation and Global Engagement)

17:50 – 18:30 Networking Drinks Reception