



Summer Research Showcase 2022

Saturday 22 October

1pm-6pm

1pm Welcome

1.10pm Session 1

Silas Ruhrberg Estevez	<i>Developing a synthetic platform to support embryogenesis in vitro</i>
Carrie Shi	<i>Investigating the effect of inhibiting translation and transcription on cytotoxic T cell activation</i>
Dakol Zhubi	<i>Exploring the role of gene candidates in cytotoxic T cell mediated killing</i>
Elizabeth Zachariah	<i>Investigating the impact of microbiota on immunotherapy</i>
Theo von Wilmowski	<i>Characterisation of non-canonical open reading frames from cytomegalovirus</i>

followed by a 5-minute break

2.00pm Session 2

Rose Sargent	<i>50 Years of Women at King's: What Has Changed?</i>
Fariya Umer	<i>Sex Police in Victorian Cambridge</i>
Michael Kabasele	<i>Female Madness and Insanity in English Literature and Culture</i>
Leon Checkland and Jason Guo	<i>Communication Technology and Politics: A Historical Exploration</i>
Min Hui Chong	<i>King's Entrepreneurs through the ages</i>

followed by a 15-minute break (with tea/coffee)

3.00pm Session 3

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| Nat Strange | <i>Using AI to Segment and Track Migrating Zebrafish Neural Crest Cells Nuclei in 3D</i> |
| Anuli Ezeoke | <i>A head-to-head comparison of two methods of peripheral blood mononuclear cell isolation</i> |
| James Wang | <i>Characterisation and determination of the functional role of human placental mast cells</i> |
| Nick New | <i>Single cell transcriptomic analysis of organiser regeneration during avian development</i> |
| Raina Xing | <i>Dendritic cells and initiation of immune responses</i> |

followed by a 5-minute break

3.50pm Session 4

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| Davod Shah | <i>Investigating myelination and differentiation within mice with PMD and PMD brain organoids</i> |
| Aoife O'Flynn | <i>Exploring cognitive deficits in adults and children with "Long Covid"</i> |
| Talha Javed | <i>An investigation into the performance of alternative means of aircraft propulsion</i> |
| Jack Brisley and Leo Maden | <i>Propulsion systems for VTOL electric vehicles</i> |
| Milena Trabszo | <i>The BabyRhythm Project: A longitudinal follow up of children's rhythmic skill and its relation to language acquisition</i> |

4.35pm Poster Display and Drinks in the Chetwynd Room

Benjamin Millward	<i>Wavefront measurements for an atom interferometric detector of fundamental physics</i>
Louis Hobson and Edward Cassidy	<i>Understanding and emulating the Turing Bombe</i>
Jack Lund	<i>Mapping the healthcare pathway for people experiencing homelessness in Cambridge</i>
Callum Stark	<i>The Art Collection of John Maynard Keynes</i>
Tom Rowe	<i>The Art Collection of John Maynard Keynes</i>
Jessica Wilson	<i>Relating electrode structure to biofilm photoelectrochemical performance</i>
Jessica James	<i>Designing a validation system for a rationally designed antibody cocktail to detect antigen-specific immune responses</i>

5.15pm Session 5

Beth Doherty	<i>Antarctic tourism: Sacrificing sites vs spreading the load</i>
Sam Gee and Francesca Toccaceli	<i>Ecology of British Elms</i>
Anmona Siddaqua	<i>Mapping Cities in Medieval Central Asia</i>
Izzy Matear	<i>Science Improv: Improvised Comedy as Science Communication Training</i>

followed by **closing remarks**.