

Research Symposium

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Symposium Schedule

Time	Session
8:15	Registration (Light breakfast)
9:00	Welcome
9:15	Keynote 1: Prof. Prashant Jha King's College London
10:00	Student Oral Presentations
11:00	Poster Session 1 (Refreshments)
11:45	Science Communication Panel (Discussion/Q&A)
12:45	Lunch
13:45	Student Oral Presentations
14:45	Poster Session 2 (Refreshments)
15:30	Careers Panel (Discussion/Q&A)
16:30	Comfort break (Refreshments)
16:50	Keynote 2: Dr. Francesco Tamagnini University of Reading
17:30	Art Exhibition + Drinks reception
18:30	Prizes and closing remarks

Keynote Speaker



Prof. Prashant Jha, King's College London

“Delivering impact through education – my 5D model”

Prof. Jha will share his extensive experience with solving unmet health needs along with his students. Using case studies from his work he will showcase how the technologies he has built have transformed the lives of people around the world. He will emphasise the importance of empathy in engineering and keeping humans at the centre of design as well as the joy and pains involved in this work.

Professor Jha is the Head of Affordable Medical Technologies at the School of Biomedical Engineering & Imaging Sciences at KCL. He is also a physician, engineer, entrepreneur, editor, and inventor. **His mission is to touch 10 million lives in 10 years (2016 - 2025) through medical technologies he co-creates, curates, and contributes to.** With 20 years of interdisciplinary experience in patient care, training physicians, inventing medical technologies, training med-tech leaders he has created an ecosystem for innovating low-cost, high-impact medical devices and technologies in Australia, Finland, India, Japan, and UK - where he serves as visiting member of faculty in different universities.

Prof. Jha has co-invented 16 medical devices in the areas of stress urinary incontinence, haemorrhoid surgery, labour monitoring, stroke detection, pulmonary medicine, bipolar disorder, menopause, health data management, stroke, orthopedics, and diabetes management. He has also co-founded the School of International Biodesign (SiB) at AIIMS and IIT Delhi and served as its Fellowship Director (Consulting Professor) until December 2018. SiB is a Department of Biotechnology, Government of India's flagship program for Medical Device Innovation.

To cultivate this area of research, Prof. Jha co-founded and is the current editor for BMJ Innovations, the world's first general medical journal on innovations in healthcare.

Keynote Speaker



Dr. Francesco Tamagnini, University of Reading

“From thauma to trauma. How our journey for knowledge takes a toll on our mental health.”

Dr. Tamagnini will discuss the pressures of academia and the toll it can take on our mental health. He believes the current academic work culture can be a cause of long-lasting mental disorders, impairing the quality of life of scientists and the reliability of our work. He has observed many PhD students beginning fresh and enthusiastic but too often leaving broken and burnt out. Dr. Tamagnini hopes to encourage discussion of mental health in academia and to create a healthier work culture which may result in more impactful, relevant, and reproducible science.

Dr. Tamagnini completed his PhD at the University of Bologna in neuroscience on synaptic correlates of recognition memory in rodent brain slices. From 2010 - 2017, Dr. Tamagnini focused on mouse models of dementia, investigating the alteration of single cell electrophysiology and functional characterization of stem cell-derived neurons, and later hyperphosphorylated-tau related alteration of interneuronal function in frontotemporal dementia with Prof. Randall at Exeter University.

Since 2017, Dr. Tamagnini is a Lecturer in Pharmacology at the University of Reading School of Pharmacy, where he investigates the causal relationship between electrophysiological activity and cognition in both physiological and pathological states. His main research areas are the investigation of altered neuronal activity in dementia, both in preclinical models and in people with Alzheimer's disease.

Since 2022, Dr. Tamagnini is the Director of Neuroscientific Research at the University of San Marino, Centro Studi Biomedici.

Science Communication Panel

This year we wanted to highlight the importance of engaging with the public which benefits both our own research as well as many aspects of society. To showcase various examples of public engagement and forms of science communication we invited a panel of enthusiastic individuals to share their experiences.



Deanne Naula

Community Engagement Officer
Centre for Medical Engineering, BMEIS
King's College London



Dr. Andrew Melbourne

Senior Lecturer in Healthcare Technologies,
Public Engagement Lead for MSc Healthcare
Technologies
King's College London



Prof. Heather King

Professor of Science Education
Co-chair of the Science and Technology
Education Research Group
King's College London



Shamini Bundell

Senior Multimedia Editor
Nature

Careers Panel

To give students first-hand insight into a few potential careers post-graduation we invited a panel of inspiring individuals eager to share their experience and discuss their fields.



Prof. Philip Blower

Professor of Imaging Chemistry
Head of Department for Imaging Chemistry and
Biology, BMEIS
King's College London



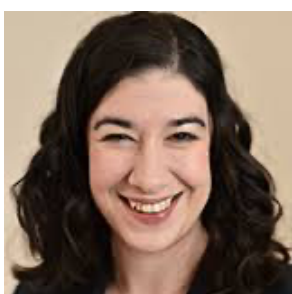
Dr. Esperanza Perucha

Senior Lecturer in Experimental Rheumatology
Group Leader at the Centre of Inflammation
Biology and Cancer Immunology
King's College London



Dr. Mark Wade

Associate Director
Lead of Oncology New Targets Team
Astex Pharmaceuticals



Dr. Harriet Boulding

Senior Research Fellow
Health Policy Theme Lead
King's Policy Institute



Dr. Gonzalo Garcia

Investment Partner
Syncona Ltd.