

Oxford Life Science Alliance Annual Symposium 2024



Richard Doll Lecture Theatre & Atrium
University of Oxford
7th March 2024



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Oxford Life Science Alliance

Oxford Life Science Alliance (OLSA), previously known as Oxford Chinese Life Science Society (OCLSS), was founded in 2013. We are a joint force of energetic students, productive postdocs, and successful professors in the Medical Sciences Division of the University of Oxford. Over the years, we have been devoting ourselves to nurturing a network of scientists, scholars, and students at Oxford. OLSA has now grown into an active association that facilitates academic communications locally in Oxford and holds virtual seminars nationally and globally.

The main topics of the Annual Symposium 2024 comprise three sessions: AI Technology in Medical Sciences, Single-cell in Organs, and Novel Therapeutics. In addition to the fantastic talks, there will be in-person networking opportunities.

Committee Board Member

Luyao Wang	Siwei Deng	Xinyue Wu
Ying-Jie Wang	Yongyi Guo	Zhihan Bo

Organising Team

Jacky Fung	Jianqing Zheng	Jinyi Zhao
Liyang Jin	Qidian Li	Shengpan Zhang
Simiao Zhao	Wei Gan	Xueli Ban
Zhiyan Bo	Zinuo Wu	

Timetable

PS: Plenary Speech, IS: Invited Speaker, FT: Flash Talk.

Morning Sessions

9:30–10:00	Registration & Reception refreshments		
10:00–10:10	Welcome speech		
10:00–10:05	IS	Dr Ying-Jie Wang Chairman of OLSA	Greetings from local organiser
10:05–10:10	IS	Prof Tao Dong Founding Director of the CAMS-Oxford Institute	Opening speech
10:10–12:00	Session I: AI Technology in Medical Sciences (Chair: Dr Jianqing Zheng)		
10:10–10:40	PS	Mr Adam McCarthy and Ms Jenny Zhou EMEA Head, Healthcare and Life Sciences ML Startups of AWS (A.M.); Associate Solutions Architect & Campus Ambassador of AWS (J.Z.)	Accelerating Healthcare and Life Sciences Innovations with Generative AI
10:40–11:00	IS	Prof Tingting Zhu Associate Professor in AI for Digital Health; Royal Academy of Engineering Fellow	Digital Twins for Precision Medicine—Generation of Synthetic Medical Data for Personalised Care
11:00–11:20	IS	Prof Aiden Doherty Professor of Biomedical Informatics, Wellcome Trust Senior Research Fellow	Using Wearables to Transform the Epidemiology of Physical Activity and Sleep
11:20–11:40	IS	Prof Bartlomiej Papiez Group Lead for Medical Image Analysis and Machine Learning at Big Data Institute	Artificial Intelligence in Medical Imaging for Disease
11:40–12:00	IS	Dr Ping Lu Postdoctoral Researcher at Institute of Biomedical Engineering	AI-Enabled Diagnosis of Infectious Diseases Using Affordable ECG Monitors in Resource-Limited Settings
12:00–12:05	Group photo		
12:05–12:55	Lunch & posters		

Flash Talks

12:55–13:30	Flash Talks (Chair: Ms Qidian Li)		
12:55–13:00	FT	Dr Kun Deng	Role of Exosomes in Cancer Liquid Biopsy
13:00–13:05	FT	Emma Page	Engineering NKG2D Ligand T Cell Engagers to Target Stressed Cells in the Tumour Microenvironment
13:05–13:10	FT	Dr Yin-Cong Zhi	Multi-morbidity Representation via Graph Learning: an Application to Hepatosplenic Disease in Sub-Saharan Africa
13:10–13:15	FT	Eloise Ockenden	A Preprocessing Pipeline for Liver Ultrasound Video for the Staging of Schistosomal Periportal Fibrosis
13:15–13:20	FT	Piotr Sliwa	A Multilayer Network Approach to Principally Integrate Multimodal Data Identifies Molecular Phenotypes and Clinical Outcomes in Severe Infection
13:20–13:25	FT	Yuanzhen Zhu	Build Cell Phylogeny Across Species With Evolutionary Assumptions
13:25–13:30	FT	Dr Paolo Piazza	Multiple Omics Solutions Supported at the Center for Human Genetics, the University of Oxford

Afternoon Sessions

13:30–15:10	Session II: Single-cell in Organs (Chair: Mr Simiao Zhao)		
13:30–14:00	PS	Prof Christopher Buckley Kennedy Professor of Translational Rheumatology and Director of Clinical Research	A Therapeutic Cell Atlas to Study Immune Mediated Inflammatory Diseases
14:00–14:20	IS	Prof Claudia Monaco Professor of Cardiovascular Inflammation	Decoding inflammation in Cardiovascular Disease
14:20–14:40	IS	Dr Matthew Bottomley Consultant Nephrologist; CAMS Oxford Institute NanoString Hub Lead	Using Complementary Spatial Transcriptomic Profiling Techniques to Understand Cellular Behaviour in Cancer
14:40–14:55	IS	Dr Yen-Yu Lin Field Application Scientist Coordinator	Stereo-seq: Spatially Resolved Transcriptomics at Nanoscale
14:55–15:10	IS	Dr Lieselotte Erber PhD, Study Manager, Azenta Life Sciences	Harnessing the Power of Multiomics from a Single Sample
15:10–15:30	Refreshments & posters		
15:30–17:15	Session III: Novel Therapeutics (Chair: Dr Shengpan Zhang)		
15:30–16:00	PS	Prof Paul Brennan Professor of Medicinal Chemistry	Academic Drug Discovery in the Centre for Medicines Discovery
16:00–16:20	IS	Dr Aadil El-Turabi Vaccinologist Specialising in Virus-Like Particles	Use of VLP Vaccines to Target Non-communicable Diseases
16:20–16:40	IS	Dr David J Peeler Marie Curie Fellow in Polymers for Vaccine Delivery	Soft Materials for Drug Delivery: from Nano to Micro
16:40–17:00	IS	Dr Linna Zhou Investigator, Martin School Fellow	Building 3D Tissues for Disease and Repair
17:00–17:15	IS	Ms Nicole Chen Study Director at GemPharmatech	Real-world Mouse Models Accelerate Drug Development
17:15–18:15	Session IV: Career Panel Discussion (Chair: Dr Luyao Wang and Dr Wei Gan)		
	Panellist: Prof Tao Dong, Dr Adam McCarthy, Dr Aadil El-Turabi, Dr Xiaodong Zhuang, and Dr Qihong Li		

Useful Information

Talks will be held at the **Lecture Theatre of the Richard Doll Building**.

Coffee breaks, lunch, and the poster session will be offered/held in the Atrium of the Richard Doll Building.

Eduroam Wi-Fi network will be available during the symposium.

How to get to the Richard Doll Building?



Sponsors

Sponsors are listed in alphabetical order.



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Contact Us

- Web: www.olsa.life
- Email: oxford.lifescience@outlook.com / admin@olsa.life
- Twitter: [@OxfordLifeSci](https://twitter.com/OxfordLifeSci)
- WhatsApp group chat



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