

The Programme for the 26th Annual Conference of the Chinese Life Scientists Society in the UK

8:30 am (British Summer Time) 19th, September 2020
Zoom meeting online

OPENING SESSION

- 08:30 – 08:40 **Opening remarks** - **Prof. Hua Ye** (*Associate Professor in Engineering Science, Deputy Director of CRMI Technology Centre, University of Oxford*)
- 08:40 – 08:50 **Speech from the special guest** - **Mr. Sunan Jiang** (*Minister Counsellor for Science and Technology Affairs, Chinese Embassy in the UK*)
- 08:50 – 09:00 **Welcome speech from the University of Oxford** - **Prof. Xin Lu** (*FMedSci, FRS, Professor of Cancer Biology, Director of Ludwig Cancer Research, University of Oxford*)

SESSION 1 - Neuroscience

- 09:00 – 09:40 **Plenary speech**: Computational approach to brain disease
- **Prof. Jianfeng Feng** (*Professor of Computational Psychiatry, Warwick University and Fudan University*)
- 09:40 – 10:00 **Invited speech 1**: Synaptic transmission dynamics underlying hippocampal sharp-wave ripple oscillations in vivo
- **Dr. Jian Gan** (*Group Leader in UK Dementia Research Institute, University of Edinburgh*)
- 10:00 – 10:20 **Invited speech 2**: The impact of biomolecular condensates on local protein synthesis and axonal health
- **Dr. Julie Qiaojin Lin** (*Sir Henry Wellcome Research Fellow, Department of Clinical Neurosciences, University of Cambridge*)
- 10:20 – 10:40 **Invited speech 3**: Novel tau filament fold in corticobasal degeneration, a four-repeat tauopathy
- **Dr. Wenjuan Zhang** (*Post-doctoral Fellow, MRC Laboratory of Molecular Biology, University of Cambridge*)
- 10:40 – 11:00 **Invited speech 4**: Blood Biomarkers for the diagnosis of Alzheimer's disease
- **Dr. Liu Shi** (*Senior Postdoc Researcher, Department of Physiology, Anatomy and Genetics, University of Oxford*)
- 11:00 – 11:20 **Coffee break**

SESSION 2 - Bioengineering & Biotechnology

- 11:20 – 12:00 **Plenary speech**: Development of LAMP-based COVID-19 rapid testing kit
- **Prof. Zhanfeng Cui** (*FREng, CEng, MIPEM, CSci, FICHEME, David Pollock Professor of Chemical Engineering, Director of CRMI Technology Centre, Founding Director of Oxford Suzhou Centre for Advanced Research, OSCAR*)
- 12:00 – 12:20 **Invited speech 1**: Image2Mech: fill the gap between imaging and robotics in surgery
- **Dr. Xiao-Yun Zhou** (*Senior Research Scientist, PAII. Inc.*)
- 12:20 – 12:40 **Invited speech 2**: Bisulfite-free, base-resolution, direct sequencing of DNA methylaiton
- **Dr. Yibin Liu** (*Post-doctoral Fellow, Ludwig Cancer Research, University of Oxford*)
- 12:40 – 13:00 **Invited speech 3**: INSIGHT (Isothermal NASBA-Sequencing based HIGH-throughput Test): a two-stage COVID-19 testing strategy
- **Dr. Qianxin Wu** (*Staff Scientist at Wellcome Sanger Institue*)
- 13:00 – 13:20 **Invited speech 4**: 3D Printing and Bioinspired-Fabrication towards Replicating Tissue Functions
- **Dr. Yan Yan Shery Huang** (*Assistant Professor, Department of Engineering, University of Cambridge*)
- 13:20 – 14:00 **Lunch break**
- 14:00 – 14:30 **COVID-19 Panel discussion**: *What is the impact of coronavirus?*

SESSION 3 - Big Data

- 14:30 – 15:10 **Plenary speech**: Big data and precision medicine: hypes or hopes?
- **Prof. Zhengming Chen** (*Professor of Epidemiology and Director of China Programmes, University of Oxford*)
- 15:10 – 15:30 **Invited speech 1**: Machine learning for large-scale cardiac image analysis
- **Dr. Wenjia Bai** (*Lecturer in Artificial Intelligence in Medicine, Data Science Institute, Imperial College London*)

15:30 – 15:50	Invited speech 2: Machine learning challenges in pharmacogenomics - Dr. Dennis Wang (<i>Senior Lecturer in Genomic Medicine and Bioinformatics, Sheffield Institute of Translational Neuroscience and Department of Computer Science, University of Sheffield</i>)
15:50 – 16:10	Invited speech 3: Glucose management using Artificial Intelligence - Dr. Kezhi (Ken) Li (<i>Lecturer at Institute of Health Informatics, University College London</i>)
16:10 – 16:30	Coffee break

SESSION 4 - Infection & Immunity

16:30 – 16:50	Invited speech 1: Genetics-led immunological research for novel disease mechanisms and drug targets - Dr. Liye Chen (<i>Principal Investigator, Nuffield Department of Orthopaedics, Rheumatology and Musculoskeletal Sciences, University of Oxford</i>)
16:50 – 17:10	Invited speech 2: Structure and distributions of SARS-CoV-2 spike proteins on intact virions - Dr. Zunlong Ke (<i>Post-doctoral Fellow, MRC Laboratory of Molecular Biology, University of Cambridge</i>)
17:10 – 17:30	Invited speech 3: The origins and relatedness structure of mixed infections vary with local prevalence of <i>P. falciparum</i> malaria - Dr. Sha Zhu (<i>Senior statistical analyst</i>)
17:30 – 18:10	Plenary speech: Broad and strong SARS-COV-2 specific memory T cell responses detected in UK patients recovered from COVID-19 - Prof. Tao Dong (<i>Professor of Immunology, MRC Human Immunology Unit, Founding Director, Oxford, CAMS-Oxford joint International Centre for Translational Immunology, and Chinese Academy of Medical Science Oxford Institute, University of Oxford</i>)

CLOSING SESSION

18:10 – 18:30	Award announcing & closing remarks from current CLSS-UK president - Dr. Rongjun Chen (<i>Reader in Biomaterials Engineering, Imperial College London</i>)
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