



ABCP
ASSOCIATION OF BRITISH
CHINESE PROFESSORS
全英华人教授协会



**China Data Analysis
& Research Hub**

Concepts for Health Care of the Future

The Convergence of Biomedicine, AI and Machine Learning

17 June 2022

This webinar is jointly organized by
the China Data Analysis and Research Hub (CDA)
& the Association of British Chinese Professors (ABCP)

Background

Over the centuries and millennia during human development mankind accumulated insights, skills and techniques to improve individual health with the final goal to elongate human life span. With the huge accumulation of patient data, digitalized knowledge and ever-growing capacity of computing and AI, life sciences and healthcare have entered a new era in the 21st century: the dawn of precision medicine. In collaboration with ABCP (Association of British Chinese Professors) CDA explores the convergence of health care and bio-medicine with digital transformation and the promises of machine learning. Leading experts from Europe and China are going to provide deep insights in the state-of-the-art and future prospects.

Which are the real benefits of the convergence of biomedicine, AI and machine learning for patients and societies? What is the status-quo of technical capacities of AI and machine learning at the time being? Which fields of successful application unfold in personalized medicine, drug development and healthcare in Europe and China? These are the main research questions and topics of a webinar that was actually initiated by the renowned Swedish neuroscientist and European Chairman of the CDA Scientific Advisory Board Lars Y. Terenius, a former Member of the Nobel Assembly and the Nobel Committee for Physiology or Medicine at Karolinska Institutet in Stockholm. With this webinar CDA also starts a series of events in the coming time exploring the development of converging fields of science and technologies spurring innovation to solve the Grand Challenges of mankind in the 21st century.



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Program

Date: 17 June 2022

Time: from 9:00 am BST (London) / 10:00 am CEST (Brussels) / 4:00 pm CST (Beijing)
to 11:30 am BST (London) / 12:30 pm CEST (Brussels) / 6:30 pm CST (Beijing)

Venue: online event upon registration via zoom

Convenors: Lars Y. Terenius, European Chairman of CDA Scientific Advisory Board,
Professor at Karolinska Institutet and Member of The Royal Swedish Academy
of Sciences (KVA), Stockholm, Sweden

Daqing Ma, Executive Vice-President of Association of British Chinese
Professors (ABCP), Professor at Imperial College London, United Kingdom

Main research questions/topics of this webinar are:

1. Which are the real benefits of the convergence of biomedicine, AI and machine learning for patients and societies?
2. What is the status-quo of technical capacities of AI and machine learning at the time being?
3. Which fields of successful application unfold in personalized medicine, drug development and healthcare in Europe and China?

Session

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Time in CEST (BST: minus 1 hour)

10:00 **Welcome Address by ABCP**
*MA Daqing, ABCP Executive Vice President; Professor at Imperial College
London, United Kingdom*

10:05 **Welcome Address by CDA**
*Lars Y. TERENIUS, (European) Chairman of CDA Scientific Advisory Board;
Professor at Karolinska Institutet and Member of the Royal Swedish Academy
of Sciences (KVA), Stockholm, Sweden*



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- 10:10** **AI and Healthcare - Future Challenges and Opportunities**
Kai-fu LEE, Chairman and CEO of Sinovation Ventures, Beijing, PR China
- 10:40** **AI in Longevity Research – Setting the Agenda at King’s Longevity AI Consortium**
Richard SIOW, Director of Age Research at Kings (ARK) and of the Longevity AI Consortium at King’s College London, United Kingdom
- 11:10** **Discussion with the Audience**
Alexander G. WELZL, President and Co-founder of China Data Analysis & Research Hub (CDA)
- 11:30** **Future EHR for Future Care**
GUO Yike, Director of Data Science Institute and Professor at Imperial College London, United Kingdom
- 12:00** **Discussion with the Audience and Final Remarks**
by CDA President Alexander G. WELZL
- 12:30** **End of the Webinar**

The Speakers and Convenors



GUO Yike, Director of Data Science Institute and Professor at Imperial College London, UK.

Professor Guo is Professor of Computing Science at Imperial College London. He was the founding Director of the Data Science Institute at Imperial College, which is one of the six Imperial College Global Challenge Institutes. He is a Fellow of the Royal Academy of Engineering, Member of Academia Europaea and Fellow of British Computer Society. Since 2020 Professor Guo is Vice-President of HKBU. In 1999, he founded InforSense Limited, an Imperial College spin-off software company specialized in big data analysis for life science and medicine.



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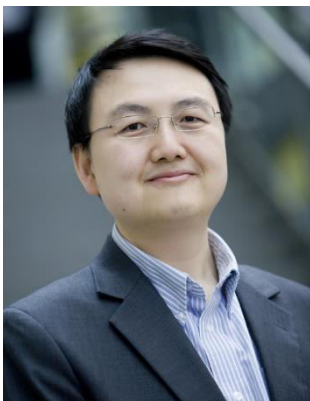
Kai-fu LEE, Chairman and CEO of Sinovation Ventures, Beijing, PR China.

Dr. Kai-Fu Lee is the Chairman and CEO of Sinovation Ventures and President of Sinovation Ventures Artificial Intelligence Institute. Prior to founding Sinovation in 2009, Dr. Lee was the President of Google China, and senior executive at Microsoft, SGI, and Apple. He is the Co-Chair of Artificial Intelligence Council for World Economic Forum Center for the Fourth Industrial Revolution, Fellow of the Institute of Electrical and Electronics Engineers (IEEE), a famous book author and worldwide speaker.



MA Daqing, ABCP Executive Vice President and Professor at Imperial College London, UK.

Professor Daqing Ma is Professor of Anaesthesia, Macintosh Professor of Royal College of Anaesthetists, BOC Chair and Head of Anaesthesia Research of the Section of Anaesthetics, Pain Medicine & Intensive Care, Department of Surgery & Cancer, Faculty of Medicine, Imperial College London, and Chelsea and Westminster Hospital. He is currently Executive Vice-President in the Standing Management Committee of the Association of British Chinese Professors (ABCP) and also serves as Chair of the ABCP Academic Interest Group on Medicine.



Richard SIOW, Director of Age Research at Kings (ARK) and of the Longevity AI Consortium at King's College London, UK.

Dr Richard Siow is the Director of Ageing Research at King's College London (ARK). He is currently a Reader in Vascular Biology, School of Cardiovascular Medicine & Sciences and was formerly Vice-Dean (International), Faculty of Life Sciences & Medicine at King's. Richard has previously been an advisor to the Parliamentary Office of Science and Technology and the Westminster Forum on Nutrition and Health. He currently is also a Member of the All Party Parliamentary Group (APPG) for Longevity.



Lars Y. TERENIUS, European Chair of CDA Scientific Advisory Board, Professor at Karolinska Institutet, Stockholm, Sweden.

Lars Y. Terenius is Professor at Karolinska Institute, founder and former Director of the Center of Molecular Medicine (CMM) at Karolinska Hospital, Member of The Royal Swedish Academy of Sciences (KVA) and former Member of The Nobel Assembly and The Nobel Committee for the Nobel Prize in Physiology or Medicine. Between 2006 and 2011 he acted as an advisor to the government of PR China (Ministry of Science and Technology, MOST). Lars Terenius is the European Chair of the CDA Scientific Advisory Board.



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The Organising Institutions

The **Association of British Chinese Professors (ABCP, 全英华人教授协会)** is an independent and non-profit association dedicated to increasing its members' impact and engaging in academic collaboration, in particular collaboration between the UK and China. ABCP members represent the highest calibre of Chinese academics in the UK across many fields. The missions of ABCP are to promote academic excellence in education, engineering, social and physical sciences, medicine and emerging areas; to stimulate academic collaboration between members and beyond; to develop and new talents and provide mentorship to young academics; to promote Sino-UK communication and collaboration in a wide range of disciplines and to provide expert advice to policy-makers both in the UK and China to advance bilateral relations for the benefit of peoples of both countries.

<https://abcp.org.uk/>

The **China Data Analysis and Research Hub (CDA)** is an independent, non-partisan and non-profit Sino-European think-tank with a global outreach based in Vienna, Austria. Following its motto "Ex Sapientia Lux" CDA strives to contribute to a peaceful bridge-building between Europe (the West) and China. With systemic and systematic research CDA supports evidence-based decision processes in the public domain and in the private sector. As an international hub of experts from academia, corporations and governance CDA's focus is on performing academic studies, organising international conferences, webinars and expert events as well as facilitating and contributing to bi-/multilateral projects between Europe and China. Against the backdrop of the Grand Challenges of mankind addressed in the UN Sustainable Development Goals (SDGs) CDAs international network provides its expertise to make a planetary patriotism and geo-innovation a reality.

<https://www.cda-hub.eu/>