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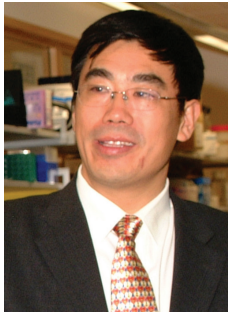
WORLD ASSOCIATION FOR
CHINESE BIOMEDICAL ENGINEERS

SATURDAY: SEPTEMBER 19, 2020

10:00 AM (New York) | 3:00 PM (London) | 4:00 PM (Europe) | 10:00 PM (Beijing)

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DISTINGUISHED BIOMEDICAL ENGINEERING WEBINAR



“Responding to the Unexpected – Development of COVID-19 Rapid Tests”

Zhanfeng Cui, PhD, DSc, FIChemE, FREng
Institute of Biomedical Engineering, University of Oxford, UK

ABOUT THE WEBINAR

The Covid-19 pandemic has impacted our lives significantly in multiple dimensions. What biomedical engineers can do? The answer is ‘a lot’! In this talk, I will share our experience in developing the Oxsed RaViD Direct, a rapid test for SARS-COV-2, that can be deployed almost anywhere without needs for infrastructure and equipment. The idea was conceived in Oxford Suzhou Centre for Advanced Research (OSCAR) and most of the R&D was done in Oxford, due to lockdowns. The technology is based on RT-LAMP (reverse transcription-loop mediated isothermal amplification), and the direct detection of SARS-COV-2 from swab to result can be completed within 30-40 min. With a collective effort of an interdisciplinary team, we were able to deliver a commercial product within 6 months from the kick-off of the project. It is a good demonstration of need-led product design and international collaboration.

ABOUT THE SPEAKER

Zhanfeng Cui, PhD, DSc, FIChemE, FREng

*Donald Pollock Professor of Chemical Engineering; Director, Oxford Centre for Tissue Engineering and Bioprocessing
Institute of Biomedical Engineering, Department of Engineering Science, University of Oxford, UK*

Zhanfeng Cui is the Donald Pollock Professor of Chemical Engineering since the chair was created in 2000. He is the Founding Director of Oxford Suzhou Centre for Advanced Research (OSCAR), an R&D centre wholly owned by the University of Oxford located in Suzhou Industrial Park. He was educated in China and moved to the UK after his PhD from Dalian University of Technology. He was postdoc in Strathclyde University (88-91) and Lecturer in Edinburgh university (91-94), before joining the Department of Engineering Science as a faculty member in 1994. His research focuses on enabling technologies for regenerative medicine and bioprocessing.