

HKU HEV Hepartment of Pharmacology & Pharmacy 香港大學藥理及藥劑學系



Dr Li Dak-Sum Research Centre 李達三博士研究中心

The University of Hong Kong

Department of Pharmacology and Pharmacy & Dr. Li Dak-Sum Research Centre

Present

Seminar series – Drug Delivery and Translational Medicine

Chemical/Biosensor for food & Healthcare

by



Prof. Nadnudda Rodthongkum

Professor, Department of Chemistry, Faculty of Science Deputy director, Metallurgy and Materials Science Research Institute (MMRI) Chulalongkorn University, Thailand Date: 13 December 2024 (Friday) Time: 10:00 a.m. – 11:00 a.m. Venue: Seminar Room 1, G/F, Laboratory Block, LKS Faculty of Medicine, 21 Sassoon Road, Pokfulam

Abstract:

My research group focuses primarily on design and functionalization of nanomaterials (e.g. metallic nanoparticles, graphene based materials, Mxene based materials, cellulose nanofibers) for enhancing the analytical performances of chemical/biosensor in term of detection sensitivity, stability and accuracy for food contaminants and disease biomarkers. Currently, rather than creating novel ideas and proof-of-concept works, some of our established prototypes have reached TRL 5, which are ready for real environmental testing, such as real patient testing in the hospital. Herein this talk, all of these concept ideas and real applications will be discussed.

Bio:

Prof. Nadnudda Rodthongkum received her Ph.D. in Chemistry from the University of Massachusetts, Amherst in 2011, where she worked with Prof. Richard W. Vachet on development of nanomaterials for biomolecule detection by Mass Spectrometry. She was then the Ph.D. Research fellow at Abbott Bioresearch Center Inc., Worcester, MA, USA in the section of bioanalytical chemistry. Prof. Rodthongkum became a researcher at Metallurgy and Materials Science Research Institute, Chulalongkorn University in 2012 and a deputy director from 2019 to the present. Prof. Rodthongkum began as a faculty member of the Chemistry Department at Chulalongkorn University starting December 2024. Her research group focuses on design and functionalization of nanomaterials for chemical/bio sensor, theranostic device and mass spectrometric applications.

Moderator: Prof. Weiping Wang, Associate Professor, Department of Pharmacology and Pharmacy & Dr. Li Dak-Sum Research Centre, The University of Hong Kong For enquiries, please contact Ms. Esther Ng at +852 3917-9123 or esther09@hku.hk

