

# A NanoBioLab Symposium 2021 Webinar

## Prof. Xiaoyuan (Shawn) Chen, National University of Singapore

### CANCER THERANOSTICS



Friday, January 29, 2021  
9:00 - 10:00 am SGT

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### Prof. Xiaoyuan (Shawn) Chen

Nasrat Muzayyin Professor in  
Medicine and Technology,  
Yong Loo Lin School of Medicine  
and Faculty of Engineering,  
National University of Singapore

#### ABSTRACT

Our research over the past five+ years has partly focused on: 1) radiotheranostics, in particular  $^{177}\text{Lu}$  radiolabeled cell surface receptor ligands possessing prolonged circulation half-life and improved tumor retention for cancer therapy; 2) immunotheranostics, especially cancer nanovaccines for better delivery to lymph nodes and for modulation of the tumor microenvironment for both prophylactic and therapeutic purposes; 3) reactive oxygen species (ROS) theranostics, by extending photodynamic therapy to radio-dynamic therapy, in which engineered X-ray is used to overcome the depth penetration limitations of laser light. This talk will highlight some of the recent advances and possible clinical translation.

#### ABOUT THE SPEAKER

Prof. Xiaoyuan (Shawn) Chen is currently Nasrat Muzayyin Professor in Medicine and Technology, Yong Loo Lin School of Medicine and Faculty of Engineering, National University of Singapore. Dr. Chen has published over 800 peer-reviewed papers (H-index: 150, total citations > 83,000 based on google scholar) and numerous books and book chapters. He is the founding editor of journal "Theranostics" (2019 IF = 8.579). He was elected as AIMBE Fellow (2017) and SNMMI Fellow (2020), received SNMMI Michael J. Welch Award (2019), ACS Bioconjugate Chemistry Lecturer Award (2016), NIH Director's Award (2014), NIBIB Mentor Award (2012). He is also the Past President of Chinese-American Society of Nuclear Medicine and Molecular Imaging (CASNMMI), Past President of the Radiopharmaceutical Science Council (RPSC), Society of Nuclear Medicine and Molecular Imaging (SNMMI), and Past President of the Chinese American Society of Nanomedicine and Nanobiotechnology (CASNN).

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Symposium Organizer: Prof. Jackie Y. Ying, A\*STAR Senior Fellow, NanoBio Lab

For enquiries, please contact [nidyah@nbl.a-star.edu.sg](mailto:nidyah@nbl.a-star.edu.sg)

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