



**2nd Singapore Molecular Imaging
and Theranostics Symposium
(MITS 2024)**

National University of Singapore, Singapore

17th-20th April 2024

Date: 17th-20th Apr. 2024

17th Apr. (Wednesday) Registration (whole day)

18th Apr. (Thursday) Opening Ceremony/Plenary Speeches/Invited Lectures

19th Apr. (Friday) Plenary Speeches/Invited Lectures, Poster Award & Closing Ceremony

18:00-20:30 Banquet

20th Apr. (Saturday) Site visiting (NUS, A-STAR)

Scientific Topics:

01 – Molecular imaging and theranostics

02 – Radiopharmaceutical development and clinical translation

03 – Optical and magnetic artificial intelligence-assisted medical imaging

04 - Ultrasound-based visualized precision diagnosis therapy

Registration address:

Building S9 Level 1, 4 Science Drive 2, National University of Singapore, 117544, Singapore.

Banquet address:

Summer Garden Restaurant, SAFRA Mount Faber Club

2 Telok Blangah Way #02-05, Singapore 098803.

18 th Apr.	Speakers	Title	Time
	Xiaoyuan Chen & Pek-Lan Khong	Opening Ceremony	9:00-9:30
Host: Habib Zaidi /Jingjing Zhang (NUS)	Keynote speaker		
	Habib Zaidi (Geneva University Hospital)	The evolving role of artificial intelligence-powered molecular imaging and theranostics	9:30-10:00
	Invited speakers		
	Yuan Liu (Hangzhou Institute of Medicine, CAS)	Nanoproteomics and cancer diagnosis	10:00-10:15
	Yihuan Lu (United Imaging Healthcare Shanghai)	Imaging and reconstruction algorithms for a new long axial field-of-view PET/CT - uMI Panorama GS	10:15-10:30
	Ann-Marie Chacko (NUS)	Unraveling the Pathophysiology of Viral Infection with Molecular Imaging	10:30-10:45
	Coffee break (20 min)		
	Andy Tay (NUS)	Soft robotics for nanomedicine	11:05-11:20
	Yong Fan (Fudan University)	Lanthanide-based NIR-II fluorescent probes for in vivo high-contrast multiplexed imaging and detection	11:20-11:35
	Tifei Yuan (Shanghai Jiaotong University)	Cortical plasticity in drug addiction	11:35-11:50
Postdoc and Ph.D	Ka Wai Lee (City University of Hong Kong)	Anti-Quenching NIR-II J-Aggregates of Benzo[c]thiophene Fluorophore for Highly Efficient Bioimaging and Phototheranostics	11:50-11:55
	Yi Yang (Central South University)	Biodistribution, radiation dosimetry, and clinical application of melanin-targeted [¹⁸ F]DMPY2 PET in malignant melanoma patients	11:55-12:00
	Xuefei Tian (Hangzhou Institute of Medicine, Chinese Academy of Sciences)	NIR light-triggered tumor pyroptosis potentiates PD-1 immunotherapy in esophageal cancer	12:00-12:05
Lunch and break (12:05-2:00)			

Host: Fan Zhang/ Yiyan Yang (A*STAR)	Keynote speaker		
	Fan Zhang (Fudan University)	NIR-II Fluorescent Probes for in vivo Multiplexed Biodetection	2:00-2:30
	Invited speakers		
	Xiaogang Liu (NUS)	Advanced Imaging with Lanthanide Nanotransducers	2:30-2:45
	Peng Guo (Hangzhou Institute of Medicine, CAS)	Spatiotemporal Visualization of Bystander Activity of Antibody Drug Conjugates for Enhancing Solid Tumor Penetration	2:45-3:00
	Daishun Ling (Shanghai Jiaotong University)	Dynamic Nano-Assemblies for Biological Sensing, Imaging and Regulation	3:00-3:15
	Coffee break (20 min)		
	Bengang Xing (Nanyang Technological University)	Bio-orthogonal Click Conjugation for Localized Imaging of Bacterial Pathogens	3:35-3:50
	Ying Zheng (University of Macau)	Lipopolysaccharide-induced Zebrafish Neuroinflammation Model for Evaluating the Therapeutic	3:50-4:05
	Pingyong Xu (Institute of Biophysics, CAS)	Photo-controllable fluorescent proteins and derived super-resolution technologies	4:05-4:20
Jiwei Cui (Shandong University)	Circumvention of biological barriers for improved therapeutic delivery	4:20-4:35	
Postdoc and Ph.D	Qixuan Dai (Xiamen University)	Ru-based Metal-organic Nanoradiosensitizers Enhance Radiotherapy by Combining ROS Generation and CO Gas Release	4:35-4:40
	Jiabo Yu (NUS)	Regulatory function of DUSP6 in innate immunity	4:40-4:45
	Chengao Li (Zhejiang University)	DNA damage activated by mitochondria targeting photodynamic therapy inducing anti-tumor immune responses	4:45-4:50

19 th Apr.	Speakers	Title	Time
Host: Mingyuan Gao/ Qianqian Ni (NUS)	Keynote speaker		
	Mingyuan Gao (Soochow University)	Nanoprobes for <i>in vivo</i> applications	9:00-9:30
	Invited speakers		
	Bin Liu (NUS)	Aggregation-Induced Emission: Materials and Biomedical Applications	9:30-9:45
	Youwen He (Duke University)	Personalized mRNA cancer vaccine: how can molecular imaging help to guide treatment?	9:45-10:00
	Pastorin, Giorgia (NUS)	Mild PTT strategy for the treatment of colorectal cancer	10:00-10:15
	Coffee break (20 min)		
	Jianping Xie (NUS)	Engineering Metal Nanoclusters for Biomedical Applications	10:35-10:50
	Mary Chan (Nanyang Technological University)	Hydrogel dressings with dual functionality accelerate infected diabetic wound healing	10:50-11:05
	Yang Du (Zhejiang University)	Engineering Cell Membrane-Based Biomimetic Nanomedicines to Treat Inflammatory Diseases	11:05-11:20
Zheyu Shen (Southern Medical University)	Magnetic Resonance Imaging Contrast Agents and their Applications for Tumor Theranostics	11:20-11:35	
Postdoc and Ph.D	Linlin Li (Peking Union Medical College Hospital)	First-in-human study of [¹⁷⁷ Lu]Lu-P17-087/088 in patients with prostate cancer	11:35-11:40
	Chaomin Ke (Xiamen University)	Optogenetic Manipulation of Endogenous Genes Using Bioengineered Light-switchable Prime Editors	11:40-11:45
	Xingtong Peng (Peking Union Medical College Hospital)	Evaluation of [⁶⁸ Ga]Ga-FAPI-04 PET/CT imaging in patients with post-COVID-19 pulmonary fibrosis	11:45-11:50

Lunch and break (11:50-2:00)			
Host: Zhaohui Zhu/Rui Tian (Xiamen University)	Keynote speaker		
	Zhaohui Zhu (Peking Union Medical College Hospital)	Clinical translation of multitarget molecular imaging	2:00-2:30
	Invited speaker		
	Yanli Zhao (Nanyang Technological University)	Synthesis of Therapeutic Species in Living Systems for Cancer Treatment	2:30-2:45
	Peng Huang (Shenzhen University)	Glucose oxidase-instructed cancer therapy	2:45-3:00
	Yongliang Zhang (NUS)	DUSP10 therapy for colorectal cancer treatment	3:00-3:15
	Peng Chen (Nanyang Technological University)	Fe ³⁺ -DOX Nanoliposomes for MR Imaging-Monitored Ferroptotic-Chemo Therapy	3:15-3:30
	Zhantong Wang (National Institutes of Health)	Development of nanovaccines for SARS-Covid-2 treatment	3:30-3:45
Jiancheng Hu (NUS)	Overcome RAFi Resistance in Cancer Therapy with Allosteric BRAF Inhibitor	3:45-4:00	
Xiaoyuan Chen & Pek-Lan Khong	Poster Award & Closing Ceremony		4:00-5:00

Organizing committee:

Prof. Xiaoyuan Chen

Prof. Pek-Lan Khong

Asst Prof. Jingjing Zhang

Dr. Jianhua Zou

Dr. Mengyao Zhao

Secretariat:

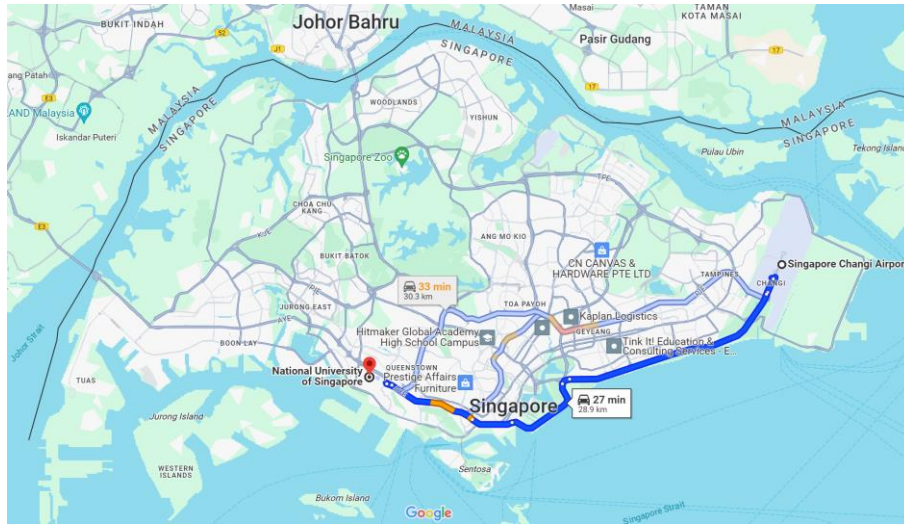
Ms Hosniah Binte Md Yussof

Ms Sivasangari D/O Letchumanan

Ms Nurul Asyikin Binte Kassim

Ms Junnie Teo

Singapore Changi Airport to National University of Singapore (Kent Ridge Campus)



Location of the conference center: Shaw Foundation Alumni House Auditorium Level 2
(Address: 11 Kent Ridge Drive, 119244, Singapore)

