



In partnership with: TEMASEK FOUNDATION

Prof Neil Gow

EMERGING FUNGAL INFECTIONS SYMPOSIUM

Understanding and Confronting Fungal Infections - an Underappreciated Public Health Threat

Monday, 7 October 2024

9:00 AM - 9:30 AM Registration

9:30 AM - 9:35 AM Opening Prof Yue Wang

9:30 AM - 9:45 AM Welcome address Prof Lisa Ng

Keynote Speech-I

Session 1: Chair, Prof Yue Wang

9:45 AM - 10:20 AM

•	Structure of fungal cell wall immune epitopes and the origins of immunity	
10:20 AM - 10:45 AM	Genetic mutations underpin host-Induced	Prof Guanghua Huang
10:45AM - 11:10 AM	Morphological transitions in <i>Candida auris</i> Applying chemical biology tools to	Asst Prof Yuan Qiao
	elucidate peptidoglycan fragments	

11:10 AM - 11:20 AM Engaged in community to enable change: **Dr Rajesh Patkat**

(PGNs)-induced C. albicans invasive

A key morphological change induced by a

novel protein during inter-species

interaction

growth.

11:20 AM - 11:30 AM Deciphering key regulators of extracellular

vesicle production in Cryptococcus

neoformans

11:30 AM - 1:30 PM Lunch and poster session 1

Co-organisers:







Dr Alicia Corbellini Piffer





In partnership with: TEMASEK **FOUNDATION**

Monday, 7 October 2024

Session 2: Chair, Dr Thomas Dawson	Se	ession	2: Chair	, Dr Thom	as Dawson
---	----	--------	----------	-----------	-----------

1:30 PM - 1:55 PM Metabolic drivers of host-pathogen **Prof Ana Traven**

interactions in fungal infections

1:55 PM - 2:20 PM Novel fluorescent probes illuminate the **Prof Daniel Kornitzer** pathway of host heme capture and

transport

2:20 PM - 2:45 PM Lipid signaling in fungal pathogenesis Dr Naweed Nagvi

2:45 PM - 2:55 PM Polysome collapse and RNA condensation Dr Ying Xie

> fluidize the cytoplasm: a possible stress adaptation strategy adopted by fungi

pathogen Candida glabrata

2:55 PM - 3:05 PM Biology and genetic diversity of Candida Dr Lingyu Ji

krusei isolates from fermented vegetables

and clinical samples in China

3:05 PM - 3:35 PM Teabreak

Session 3: Chair, Dr Clement Tsui

The importance of fungal inhabitants on the **Dr Thomas Dawson** 3:35 PM - 4:00 PM

skin – both good and bad

Prof Darren Ting Fungal keratitis: current clinical 4:00 PM - 4:25 PM

management and unmet needs

Cell selective antifungal polymers for the Dr Lakshminarayanan 4:25 PM - 4:50 PM management of fungal keratitis Rajamani

Membrane targeted antimicrobial peptides **Dr Sanhita Roy** 4:50 PM - 5:00PM as alternative therapeutics for corneal

infections

Prolonged in vitro azole exposure drives **Dr Cheryl Leong** 5:00 PM - 5:10 PM cross-resistance in commensal Malassezia

Antifungal strategies against drug-resistant 5:10 PM - 5:20 PM Dr Dazhi Zhang

fungi: new targets, new mechanisms and

novel compounds

Co-organisers:











In partnership with: TEMASEK FOUNDATION

Tuesday, 8 October 2024

Session 4: Chair, Prof Christophe d'Enfert

	8:50 AM - 9:25AM	Keynote Speech-II Role of candidalysin in pathogenicity	Prof Julian Naglik
7	9:25 AM - 9:50 AM	Fungal drug response and Phenotypic resistance	Dr Linqi Wang
	9:50 AM - 10:15 AM	Genome-wide search for drug resistance mechanisms	Prof Yue Wang
	10:15 AM - 10:25 AM	Secreted metabolites profile of Candida albicans yeast to hyphae transition	Dr Leovigildo Rey Alaban
	10:25 AM - 10:55 AM	Teabreak	
	Session 5: Chair, Prof No	eil Gow	
	10:55 AM - 11:20 AM	Functional genomics by overexpression in the fungal pathogen Candida albicans	Prof Christophe d'Enfert
	11:20 AM - 11:45 AM	Systemic functional analysis of essential transcription factors in the global meningitis pathogen <i>Cryptococcus neoformans</i>	Prof Yong-Sun Bahn
	11:45 AM - 12:10 PM	Harnessing innate immune memory against fungal infections	Dr Jessics Quintin
	12:10 PM - 12:20 PM	Systematic elucidation of host-derived cues for the regulation of pathogenicity-linked transcription factors in fungal pathogen Cryptococcus neoformans	Dr Seong-Ryong Yu
	12:20 PM - 1:30 PM	Lunch and poster session 2	

Co-organisers:











In partnership with: TEMASEK FOUNDATION

Tuesday, 8 October 2024

Session 5: Chair, Dr Lakshminarayanan Rajamani

	1:30 PM - 1:55 PM	Correlating bench versus bedside in determining novel susceptibility to invasive fungal infections	Dr Louis Chai
	1:55 PM - 2:20 PM	Molecular epidemiology and antifungal resistance of Candida pathogens	Dr Clement Tsui
	2:20 PM - 2:30 PM	Antifungal heteroresistance causes prophylaxis failure and facilitates breakthrough <i>Candida parapsilosis</i> infections	Dr Bing Zhai
	2:30 PM - 3:00 PM	Teabreak	
•	3:30 PM - 3:55 PM	Medically important fungal pathogens in Singapore	Dr Yen Ee Tan
	3:55 PM - 4:20 PM	Antifungal stewardship – the overlooked child in the family?	Dr Winnie Lee
	4:20 PM - 4:30 PM	Exploring the gut mycobiome in ulcerative colitis patients using culturomics analysis	Dr Won Hee Jung
	4:30 PM - 4:35 PM	Award ceremony	
•	4:35 PM - 4:40 PM	Closing speech, Prof Christophe D'enfert	Prof Christophe D'enfert
	4:45 PM - 5:50 PM	Invited speakers visit to A*STAR IDL Introduction and tour of A*STAR IDL	
	6:00 PM	Invited speakers dinner	

Co-organisers:





