



Masterclass: Updates on Vaccine Science

Date: October 11th-13th, 2023 Location: Amphitheatre, Level -2, Duke-NUS Medical School, Singapore

Program

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	Day 1: 11 th October, 2023 (Wednesday)				
		Speakers			
S	ession 1 – <i>Imi</i>				
	08:30-09:00	Registration			
	09:00-09:20	Introduction and orientation to the Masterclass	Prof. Eng Eong Ooi		
	09:20-10:20	Immunology in a nutshell	Dr Philippe Buchy		
	10:20-10:45	Coffee break			
	10:45-11:30	New knowledge in humoral immunity	Dr Chee Wah Tan		
	11:30-12:15	Innate immune response and trained immunity	Dr Wy Ching Ng, Dr Christine Tham		
	12:30-13:30	Lunch			
S	Session 2 – Immune responses and immunological correlates of protection				
	13:30-14:00	Cellular immunity	Prof. Antonio Bertoletti		
	14:00-14:30	Measuring T cells/ Mucosal Immunty	Dr Anthony.T.Tan		
	14:30-15:00	Applying T-cell analysis in vaccinationa and viral infections	Dr Nina Le Bert		
	15:00-15:20	Coffee break			
	15:20-16:00	Vaccine prevention in patients with chronic diseases (GSK)	Ms Chanelle Owen		
	16:00-17:00	Case study on immune response and immunity -Dengue	Prof Eng Eong Ooi, Dr Shirin Kalimuddin		

Day 2: 12th October 2023 (Thursday)

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session 5 The science of vaccines				
09:00- 09:30	Different types of vaccines and the immune responses they elicit.	Dr Justin Ooi		
09.30-10:30	RNA biology and RNA vaccines	Dr Esteban Finol		
10:30-10:45	Coffee break			
10:45-11:30	Delivery of mRNA vaccines	Dr Danny Tng Jian Hang		
11:30 -12:15	Side effects of mRNA vaccination	Dr Ayesa Syenina		
12:15-13:00	Role of Adjuvant technology in older adults (GSK)	Dr Jerusha Naidoo		
13:00-14:00	Lunch			

Session 4 – Vaccine Ethics and Challenges

	14:00-15:30	Vaccine communication-acceptance or hesitancy?	Ms Sheila Pakir
	15:30-16:00	Coffee break	
	16:00-17:00	Future pandemics – from whence they come	Prof LinFa Wang

Day 3: 13th October 2023 (Friday)

S	Session 5 – New approaches for assessing new vaccines				
	09:00-9:30		Advances in clinical trial designs	Dr Jenny Low	
	09:30-10:00		Regulatory considerations for innovative products	Dr Wai Yeen James Leong	
	10:00-10:40		Precision molecular tools	Dr Eugenia Ong	
	10:40 -11:00		Coffee break		
	11:00-12:30		The role of systems vaccinology and big data in clinical trials	Dr Kuan Rong Chan	
	12:30-13:30		Lunch		
Se	Session 6 – Vaccine reactogenicity and immunogenicity				
	13:30-15:00		Molecular fingerprints for vaccine efficacy: Learning from successful vaccines (Case study: Yellow Fever vaccine) System vaccinology frameworks for early phase clinical trials (Case study: mRNA vaccines)	Dr Kuan Rong Chan	
	15:00-15:20		Coffee break		
	16:00-17:00		Improving vaccination outcomes in the elderly (Case study: Shingles vaccine)	Dr Candice Chan, Dr Justin Ooi	
	17:00 -17:20		Closing remarks	Dr Jenny Low	
	18:00		Closing event with Dinner		