

Webinar

NOBEL FORUM 3

Date: 1 September 2022

Time: 9am - 12.30pm

Opening Remarks



Academician Tan Sri Emeritus
Prof Datuk Dr Augustine S H Ong
President, MINDS

Moderator



Dato' V L Kandan
Trustee, Yayasan Rekajita Malaysia



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Speakers



**Pain, the gift that no one wants:
Making sense of pain**

Prof Dr Chan Kok Gan FASc
Institute of Biological Sciences, Microbiology and
Molecular Genetics Department,
Faculty of Science, University of Malaya.



**Black Holes Under
the Camera:
How to See Them and What
we Can Learn**

Dr Juan Carlos Algaba Marcos
Senior Lecturer
University of Malaya

PROGRAMME

09:00 **Registration**

09:45 **WELCOME ADDRESS**

Tan Sri Dr Augustine Ong, President of MINDS

10:00 **MODERATOR**

Dato' V L Kandan

10:15 **PAIN, THE GIFT THAT NO ONE WANTS: MAKING SENSE OF PAIN**

Professor Dr Chan Kok Gan FASc

11:15 **BLACK HOLES UNDER THE CAMERA: HOW TO SEE THEM AND WHAT WE CAN LEARN**

Dr Juan Carlos Algaba Marcos

12:15 **Q & A**

Chaired by Dato' V L Kandan

12:30 **END**

REGISTRATION FEE

Public: RM100

ATAS, MINDS & MOSTA Members: RM50

International Participants: USD30

REGISTRATION FORM

Nobel Forum 3: 1 September 2022

	Name	Designation	Membership No. (If applicable)	Fees (RM)
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Contact Person: Mr Azman Ismail / Ms Mary Low

Registration Deadline: **22 August 2022**

ABSTRACT



Pain, the gift that no one wants: Making sense of pain

Prof Dr Kok-Gan Chan

Institute of Biological Sciences, Microbiology and Molecular Genetics Department, Faculty of Science, University of Malaya. 50603 Kuala Lumpur, Malaysia.

Abstract

It's hard to imagine pain as a "gift", ask any man in the omnibus and he will readily answer this. But pain is our body's way telling us to be careful. Human body can sense environmental stimuli to ensure appropriate response but its precise mechanism is not clear. David Jay Julius discovered the molecular mechanisms of pain sensation and heat, including the characterization of the TRPV1 and TRPM8 receptors. Ardem Patapoutian who is known for his work in characterizing the PIEZO1, PIEZO2, and TRPM8 receptors that detect pressure, menthol, and temperature. In 2021, both of them were awarded the Nobel Prize in Physiology or Medicine for their discoveries of receptors for temperature and touch. These Nobel Laureates identified critical missing links in our understanding of the complex interplay between our senses and the environment. The ground-breaking discoveries of the TRPV1, TRPM8 and PIEZO channels by these Nobel Laureates have allowed us to understand how heat, cold and mechanical force can initiate the nerve signals that allow us to perceive and adapt to the world around us.



Black Holes Under the Camera: How to See Them and What we Can Learn

Dr Juan Carlos Algaba Marcos
Senior Lecturer, University of Malaya

Abstract

Malaysia is part of the Event Horizon Telescope (EHT), the international collaboration that has obtained the first image of two black holes: the one in the galaxy M87, in 2019, and the one in our own galaxy, the milky way, last April. In this talk I will review what are black holes, how these images were obtained and what we can learn from them. I will also discuss how this can be useful and a view on the future perspectives.

MODERATOR



DATO V L KANDAN is a Life Member of the Malaysian Invention and Design Society (MINDS). He is a Trustee of the Yayasan Rekacipta Malaysia and the Tan Sri Augustine Ong Fellowship Trust. He was the Senior Partner and Partner in charge of the Intellectual Property Department of Messrs Shearn Delamore & Co in Kuala Lumpur, Malaysia.

This former Selangor State Assembly and Executive Council Member is currently an Honorary President of the Asian Patent Attorneys Association.