



## SPEAKER'S BIOGRAPHY

**NAME:** DR MOHD FAIRULNIZAL BIN MD NOH

**POSITION & AFFILIATION:** RESEARCH OFFICER & HEAD,  
NUTRITION, METABOLISM & CARDIOVASCULAR RESEARCH  
CENTRE, INSTITUTE FOR MEDICAL RESEARCH, NATIONAL  
INSTITUTE OF HEALTH, SETIA ALAM SELANGOR

**EMAIL ADDRESS:** [fairulnizal@moh.gov.my](mailto:fairulnizal@moh.gov.my)



## TITLE OF TALK

The Malaysian Vascular Events Risk (MAVERIK) Study – Discovering Biomarkers for Myocardial Infarction

## PROFESSIONAL EXPERIENCE

- He had worked on the development of heavy metals analysis such as lead, Cadmium and Mercury in environmental and biological samples which are currently being used as routine analysis in IMR and hospitals in Malaysia.
- He had also been working on the development of food analysis since 2011 for the updates of Malaysian Food Composition Database project and program. Around 40 nutrients analysis mainly in the group of proximate, minerals, amino acids, water and fat soluble vitamins, fatty acids and sugars have been developed/established and used for the projects/program.
- He had also been working in in the development of sensor/biosensors for identification of TB/heavy metals, iodine in salt and vitamin D in food and biological fluids using screen-printed electrodes for the purpose of monitoring in the field.
- He is the Malaysian Principal Investigator of the to-date largest case-control study of first onset myocardial infarction in Malaysia – MAVERIK study.
- He is the current elected President of the Ministry of Health Researchers Association (PENYELIDIK), 2022-2024. He is currently head of Research officer's profession, Ministry of Health.



- Internationally, since 2016, he is also one of the three Country Coordinator for ASEANFOODS, International Network of Food Data Systems (INFOODS), under Food and Agriculture Organization of the United Nations (FAO).

## AWARDS AND RECOGNITION

Dr Mohd Fairulnizal has been recognized for his work in a number of ways. He and his team have received the following awards:

- Newton Ungku Omar Fund, 2018.
- Gold Award for The Invention of On-site Iodine Detector (OSID) Kit, INTEX 2019,2023. IMR.
- Bronze Award for Salt Iodine Micro-Method Reagent (SIMR) Detection Kit, 2023. IMR
- Bronze Award for Healthy Red Seaweed Based Beverages. IMR
- MOH Innovation Award MOH 2020, 3<sup>rd</sup> place - Technology Category Malaysian Food Composition Database.
- Silver Award. MTE 2020 Innovation Title: Rapid Detection of COVID-19 Virus (Sars-CoV-2) in Human Nasopharyngeal Swab Specimens Using Aptamers Based Impedimetric DNA Biosensor. UiTM &IMR.

## RESEARCH INTEREST

Dr Mohd Fairulnizal is a passionate and dedicated expert in IMR, his principal areas of research are analytical food chemistry, analytical biochemistry, sensor and biosensor, instrumentation and cardiovascular disease. He is a valuable asset to the research and development in various biomedical areas and committed to making a difference in this area.