



**ACADEMY OF SCIENCES MALAYSIA
PUBLIC ENGAGEMENT WORKSHOP**

**PRECISION MEDICINE
FOR MALAYSIA:
IS PRECISION MEDICINE
OUR FUTURE?**

NOVEMBER 28, 2019 | 0830-1630

MALAYSIAN SPACE AGENCY, JALAN TUN ISMAIL



**PRECISION MEDICINE INITIATIVE
FOR MALAYSIA PUBLIC
ENGAGEMENT WORKSHOP**

About

The genomic revolution has paved the way for the practice of medicine to be personalised, predictive, preventive and participatory. The concept of Precision Medicine approach uses genetic information for more effective disease prevention and treatment strategies. Many countries have embarked on this initiative. Malaysia too has started a few genome sequencing studies but on small scale and numbers.

In view of this revolution in healthcare, Academy of Sciences Malaysia (ASM) has formed a Task Force on The Precision Medicine Initiative for Malaysia to discuss its feasibility for our country. This initiative will also populate various efforts in terms of research and services across the country to generate evidence of the effectiveness and the necessity of mainstreaming precision medicine into clinical practice. ASM will then provide strategic recommendations to the Government in the form of a Position Paper.

This workshop aims to engage relevant stakeholders from the academia, industry, civil societies and policymakers within the field of medicine especially precision medicine to validate some of our views and to gather further insights for a comprehensive Position Paper.

This workshop comprises two main sessions: Panel session in the morning and Break-out session in the afternoon. The panel discussion will be moderated by Chairperson of the Task Force, Professor Datuk Dr A Rahman A Jamal FASc. The panellists will attempt to discuss the potential of precision medicine in Malaysian healthcare within the topics of Health Economics, Lab Accreditation, Medical Law, and Practitioner's Challenges. During the break-out session, participants will be divided into five groups which are: Ethics and Religion, Research and Capacity Building, Clinical Translation, Health Economics, as well as Legal and Governance.

Program Tentative

- 8:30** **Registration**
- 9:00** **Welcoming speech** by Professor Datuk Dr Asma Ismail , ASM President
- 9:10** **Key note** by Dr Fazilah Shaik Allaudin (Senior Deputy Director, Planning Division, Ministry of Health, Malaysia)
- 9:40** **Scene setting** by Professor Datuk Dr A. Rahman A. Jamal, Chairperson of ASM Task Force of Precision Medicine Initiative for Malaysia
- 10:00** **Panel session**
- Moderated by Professor Datuk Dr A. Rahman A. Jamal
- Panellist 1: Health economics
 - Panellist 2: Lab accreditation
 - Panellist 3: Medical law
 - Panellist 4: Oncologist's challenges
 - Panellist 5: Patient's Challenge
- Q&A
- 12:30** **Lunch break**
- 1:45** **Briefing** by session moderator
- 2:00** **Break-out group discussions**
- 3:15** **Group presentations and discussions**
- 4:15** **Summing up by session moderator**
- 4:30** **Closing remark** by Professor Datuk Dr A. Rahman A. Jamal

Keynote Speaker



Dr Fazilah Shaik Allaudin

Senior Deputy Director, Planning Division,
Ministry of Health Malaysia

Dr Fazilah holds an MD from Universiti Kebangsaan Malaysia and an MBA from the University of Toledo, Ohio. She is professionally certified in enterprise architecture (TOGAF 9.0) and in governance & management of enterprise IT (COBIT 5.0). She has been with the Ministry of Health for over 25 years, mainly in planning, project management and implementation of Hospital Information Systems. Since 2010, she has been leading digital strategy for the national health system transformation agenda and is extensively involved in digital health and innovation strategies in both public and private sectors. In her current capacity, her role covers eHealth collaborations domestically, regionally and globally. She has also been engaged by WHO for eHealth expert consultations and eHealth missions.

Moderator



Professor Datuk Dr A. Rahman A. Jamal

Fellow, Academy of Sciences Malaysia
Chairperson, ASM Task Force on Precision
Medicine Initiatives for Malaysia

Pro Vice-Chancellor,
Universiti Kebangsaan Malaysia (UKM)

Professor Datuk Dr A. Rahman obtained his MRCP (Paediatrics) from the Royal College of Physicians Ireland in 1991 and PhD in Haematology from University of London, United Kingdom in 1996. He is an esteemed researcher who pioneered personalised and precision medicine in UKM's Medical Molecular Biology Institute (UMBI). He has been actively contributing to Malaysia's academic and research arena. He drives new challenges in cancer research, including The Cancer Genome Atlas Malaysia (TCGA-My), and also discoveries into the role of the gut microbiome and its secretome in Colorectal Cancer. Together with his research team, they have discovered various important gene signatures associated with the pathogenesis of CRC, glioma and leukaemia.

Panellist



Professor Dr Sharifa Ezat Wan Puteh

Deputy Dean (Relation & Wealth Creation),
Faculty of Medicine, UKM Medical Centre

Professor Dr Sharifa Ezat obtained her Master's in Public Health (Hospital and Health Management), PhD on Health Economics from the United Nations University-International Institute for Global Health, UKM (UNUIIGH, UKM) and Postdoctoral on Casemix and Financing from the UNU-IIGH. Her main interests are in areas of health policy, health inequality and health economics. Her study on "Cost-Effectiveness of HPV Vaccinations against Cervical Cancer in Malaysia" was used in policy of HPV vaccination establishment in the country. Professor Dr Sharifa has presented papers and, published papers and book on the cost-effectiveness of vaccination against cervical cancer. She is an active member of community volunteerism, non-government organisation activities and corporate social responsibilities with local companies and organisations.

Panellist



Academician Distinguished Professor Datuk Dr Looi Lai Meng FASc

Senior Fellow, Academy of Sciences Malaysia
Distinguished Professor,
University of Malaya

Academician Datuk Professor Dr Looi Lai Meng studied medicine at the University of Singapore and trained in Surgical Pathology at UM, Royal Postgraduate Medical School (UK) and, Brigham and Woman's Hospital (USA). She defended her research doctorate at UM. She is a Council member of the Academy of Medicine Malaysia and a Foundation Fellow of the Academy of Sciences Malaysia. She is the Founding President of the Malaysian College of Pathologists and was instrumental in establishing pathology laboratory accreditation in Malaysia, the Pathology Act, and several National guidelines on medical laboratory practices. She has more than 200 publications on amyloidosis, nephropathology, oncopathology and global pathology, and has delivered more than 400 guest lectures. Her contributions to research, education and medical science have been recognised with several accolades including the ASEAN Outstanding Scientist Award and Merdeka Award 2016.

Panellist



Professor Dato' Dr Aishah Bidin FASc

Fellow, Academy of Sciences Malaysia
Faculty of Law,
Universiti Kebangsaan Malaysia

Professor Aishah is a Commission Member of the Companies Commission of Malaysia (CCM). She was a former Executive Council Member of International Centre for Law and Legal Studies (I-CeLL), Attorney General Chambers (AGC) of Malaysia and former Executive Council Member of Legal Aid Foundation of Malaysia (YBGK). She is also a Fellow and Council Member of Academy Sciences of Malaysia (ASM). Apart from being a law professor at UKM, she has been involved in various consultancy projects where she has advised various Government agencies in Malaysia relating to law reform and legal policies. Her experiences range from formulating new laws, revising legal and human rights strategies and policy development to programme implementation.

Panellist



Dr Muhammad Azrif

Honorary President ,
Malaysian Oncological Society

Dr Muhammad Azrif is a Consultant Clinical Oncologist at Prince Court Medical Centre and Gleneagles Hospital in Kuala Lumpur, Malaysia. He completed his specialist oncology training at the Christie Hospital and Radiation Oncology Fellowship in Canada before returning to Malaysia in 2007. He served at the National University of Malaysia Medical Centre (UKMMC) as a Consultant Clinical Oncologist for 5 years before joining private practice. He has served on various national oncology committees, published in peer-reviewed journals, participated in clinical trials, cancer advisory boards and expert panels. He is the current Honorary President of the Malaysian Oncological Society.

Panellist



Siti Safura Jaapar

Malaysian Rare Disorders Society

Siti Safura Jaapar completed her Bachelor's degree in Plant Biotechnology from UKM in 2005 and Master's degree in Phytochemistry from UPM in 2015. Diagnosed with spinal muscular atrophy (SMA), it does not stop her from studying hard to find answers to help people with similar conditions. In achieving her dream, she works hard and has successfully completed the Postgraduate Diploma in Bioinformatics. She is currently pursuing a PhD programme in the field of bioinformatics. Besides research commitment, she is a national Paralympics athlete and a national medallist in chess.

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**ACADEMY OF SCIENCES MALAYSIA
20TH FLOOR, WEST WING, MATRADE TOWER
JALAN SULTAN HAJI AHMAD SHAH OFF JALAN TUANKU ABDUL HALIM
50480 KUALA LUMPUR**

**T: +603 6203 0633 F: +603 6203 0634
www.akademisains.gov.my**