



**9TH** REGIONAL CONFERENCE ON  
MOLECULAR MEDICINE

**RCMM**

IN CONJUNCTION WITH THE  
**5TH** NATIONAL CONFERENCE FOR  
CANCER RESEARCH

**20  
23**

*Precision Medicine in Healthcare*

# PROGRAMME BOOK

## SUB-THEMES:



Infectious Diseases



Obesity and Diabetes



Big Data and Visual Analytics



Cancer (Genetics, Epigenetics and  
Gene Editing)



Cancer Immunology and Therapeutics



Proteomics, Metabolomics and  
Lipidomics - based Biomarkers

**14-15** OCT  
2023

🕒 08:00 a.m. - 05:00 p.m. MYT

📍 Bangi Resort Hotel, Bangi, Selangor

For Further Enquiry:

✉ [rcmm.umbi@gmail.com](mailto:rcmm.umbi@gmail.com)

☎ 03-9145 9070 / 03-9145 9223



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## FOREWORD

### DIRECTOR GENERAL OF HEALTH MINISTRY OF HEALTH, MALAYSIA

Assalamualaikum wbt. and Greetings

A warm welcome to the speakers and participants of the 9<sup>th</sup> Regional Conference on Molecular Medicine (RCMM), in conjunction with the 5<sup>th</sup> National Conference for Cancer Research (NCCR), organised by the UKM Medical Molecular Biology Institute (UMBI). I am deeply honored to be invited to contribute some words for the conference book.

In the face of rapid technological advancements and groundbreaking research findings, a scientific conference like this serves as an annual gathering and platform that brings together researchers, academics, medical and healthcare professionals, industries, and students. It provides an opportunity for fostering scientific exploration and interdisciplinary discussions on current healthcare issues, with the aim of generating promising solutions that will ultimately benefit individuals, communities, and the nation.

This year's chosen theme, "Precision Medicine in Healthcare", holds significant relevance in the realm of modern treatment strategies. Precision medicine represents an approach that tailors personalised treatments to individuals based on their unique characteristics. This approach has the potential to revolutionise healthcare by enhancing patient outcomes, reducing healthcare costs, and facilitating the development of more effective pharmaceuticals. I am delighted that UMBI has taken the initiative to address this crucial theme during this conference.

As we commence this conference, my sincere hope is that participants, especially young scientists, will seize the opportunity to expand their collaborations and networks for the betterment of public health. Finally, I would like to express my profound appreciation to the organising committee, whose efforts, whether direct or indirect, has played a pivotal role in ensuring the success of this conference.

Thank you.

**Datuk Dr. Muhammad Radzi Abu Hassan**

IN CONJUNCTION WITH THE  
**5TH** NATIONAL CONFERENCE FOR  
CANCER RESEARCH





**FOREWORD**  
**PRO-VICE CHANCELLOR**  
**KUALA LUMPUR CAMPUS**  
**UNIVERSITI KEBANGSAAN MALAYSIA (UKM)**

Assalamualaikum wbt. and Greetings

I am delighted to extend a warm welcome to all participants and speakers attending the 9<sup>th</sup> Regional Conference on Molecular Medicine (RCMM) in conjunction with the 5<sup>th</sup> National Conference for Cancer Research (NCCR). I would like to offer my heartfelt congratulations to the UKM Medical Molecular Biology Institute (UMBI) for their dedication in organising this conference, a tradition they have upheld since 2006, now celebrating its ninth year.

The theme "Precision Medicine in Healthcare" stands as one of the most prominently discussed topics among healthcare professionals and policymakers. At its core, precision medicine recognises the uniqueness of every individual, encompassing factors from genetics to social and environmental influences. Thanks to technological advancements such as omics, genome information, artificial intelligence (AI), and machine learning (ML), healthcare professionals now have the means to scrutinise the most intricate aspects of an individual's health. This includes their behaviors, socioeconomic risks, clinical and biochemical profiles, and even their DNA. Armed with this wealth of information, medical practitioners can deliver highly personalised care, effectively slowing disease progression in high-risk patients and even preventing chronic disease complications in some cases.

While there are challenges to be addressed, innovative technologies and collaborative efforts among all stakeholders hold the promise of making precision medicine an integral part of healthcare in the future. Keeping this theme in focus, I extend my commendations to the organising committee for curating a diverse array of topics and discussions centred around precision medicine. It is my hope that this conference will foster the exchange of scientific ideas, stimulate meaningful debates, and provide valuable networking opportunities for both participants and speakers alike.

Thank you.

**Professor Dato' Dr. Hanafiah Harunarashid**

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## FOREWORD

### DIRECTOR

## UKM MEDICAL MOLECULAR BIOLOGY INSTITUTE (UMBI) UNIVERSITI KEBANGSAAN MALAYSIA (UKM)

Assalamualaikum wbt. and Greetings

On behalf of the organising committee and the UKM Medical Molecular Biology Institute, we are delighted to extend our warm welcome to the 9<sup>th</sup> Regional Conference Molecular Medicine (RCMM) in conjunction with the 5<sup>th</sup> National Conference for Cancer Research (NCCR).

"Precision Medicine in Healthcare" is the chosen theme for this year's RCMM, which underlines our dedication and a strong commitment to showcasing research that pushes the boundaries of knowledge in the field of molecular medicine and precision medicine. Instead of adhering to a one-size-fits-all approach, the precision medicine strategy will enable the treatments to be tailored according to the individual genetic background, clinical profile and lifestyle, which could significantly improve the patients' therapeutic responses and prognosis.

In recent years, significant efforts and progress have been made in the field of molecular medicine as well as precision medicine. This includes utilising multi-OMICS platforms and other cutting-edge technologies to accelerate the development and future realization of precision medicine in healthcare. Therefore, we have a line-up of highly esteemed scientists who will share their valuable expertise and thought-provoking insights pertaining to these fields. Seize this golden opportunity to learn, exchange ideas, and connect with our distinguished speakers and other participants. Also, sincere gratitude to our speakers for their valuable sharing and participation in this momentous event.

On a side note, UMBI is commemorating its 20<sup>th</sup> anniversary this year, and the organisation of this year RCMM highlights UMBI's endeavour and commitment to maintain its status as a leading research institute in molecular medicine. Hence, your unwavering support and participation in this conference are greatly appreciated. Last but not least, a special thanks to the organising committee for their dedication and exceptional efforts in making this event a reality, and my best wishes to all participants and speakers for a rewarding conference experience.

Thank you.

**Associate Professor Dr. Nor Azian Abdul Murad**

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**5<sup>TH</sup>** NATIONAL CONFERENCE FOR  
CANCER RESEARCH



# OPENING CEREMONY

9<sup>th</sup> Regional Conference on Molecular Medicine (RCMM)  
in conjunction with 5<sup>th</sup> National Conference for Cancer Research (NCCR)

14<sup>th</sup> October 2023, Saturday  
Lobby Level, Grand Ballroom,  
Bangi Resort Hotel, Selangor

- 0900 :  
• Invocation & arrival of guests  
• The Guests of Honour  
- Director General of Health, Ministry of Health, Malaysia.  
- Pro-Vice Chancellor Universiti Kebangsaan Malaysia, Kuala Lumpur.
- 0915 :  
National Anthem (Negaraku)  
: Doa recital  
: Welcome speech by UMBI Director  
• **YBrs. Associate Professor Dr. Nor Azian Abdul Murad**  
: Opening speech by Pro-Vice Chancellor Universiti Kebangsaan Malaysia, Kuala Lumpur  
• **YBhg. Professor Dato' Dr. Hanafiah Harunarashid**  
: Officiating speech by Director General of Health, Ministry of Health, Malaysia  
• **YBhg. Datuk Dr. Muhammad Radzi Abu Hassan**  
: Token of appreciation presentation and photography session  
: Visitation to exhibition booths
- 1000 : Refreshments

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# SCIENTIFIC PROGRAMME

Day 1 (Saturday 14 <sup>th</sup> October 2023)			
0800 - 0900	Registration		
0900 - 1000	OPENING CEREMONY Grand Ballroom		
1000 - 1015	Tea Break, Booth and Poster Viewing		
1015 - 1100	PLENARY 1 Grand Ballroom	Topic: DNA sequencing: How has it transformed genetic analysis and where is it taking us – a personal perspective <i>Laureate Professor Dr. Rodney Scott (University of Newcastle, Australia)</i> <i>Chairperson: Associate Professor Dr. Nurul Syakima Ab Mutalib</i>	
1100 - 1230	Symposium 1 Grand Ballroom	Cancer (Genetics, Epigenetics and Gene Editing) <i>Chairperson: Ts. Dr. Saiful Effendi Syafruddin</i>	Symposium 2 Cempaka Hall
	i. Topic: Honing in on cancer with targeted therapy <i>Speaker: Associate Professor Dr. Oon Chern Ein (INFORMM, USM, Malaysia)</i>		i. Topic: Diabetes prevention and control in the current era <i>Speaker: Dr. Feisul Idzwan Mustapha (Ministry of Health Malaysia)</i>
	ii. Topic: The Multifaceted Roles of Extracellular Vesicles in Cancer <i>Speaker: Dr. Nadiyah Abu (UMBI, UKM, Malaysia)</i>		ii. Topic: Type 2 Diabetes and obesity in Malaysia <i>Speaker: Professor Dr. Noraila Mustafa (HCTM, UKM, Malaysia)</i>
	iii. Topic: Deconstructing tissue-specific mechanisms of carcinogenesis <i>Speaker: Dr. Sakari Vanharanta (University of Helsinki, Finland)</i>		iii. Topic: Exploring the obesity-diabetes connection: Unraveling the relevance of body composition as a causal factor for diabetes <i>Speaker: Associate Professor Dr. Nor Azian Abdul Murad (UMBI, UKM, Malaysia)</i>
1230 - 1300	Lunch Symposium (Nanopore Technologies / Next Gene Scientific Sdn Bhd) Grand Ballroom		
1300 - 1430	Lunch, Booth and Poster Viewing		
1430 - 1600	Symposium 3 Grand Ballroom	Cancer Immunology and therapeutics <i>Chairperson: Dr. Nor Adzimah Johdi</i>	Symposium 4 Cempaka Hall
	i. Topic: Ovarian cancer and immunotherapy <i>Speaker: Associate Professor Dr. Nirmala@Chandralega A/P Kampan (UKM, Malaysia)</i>		i. Topic: Metagenomics-enabled microbial surveillance <i>Speaker: Associate Professor Dr. Niranjan Nagarajan (A*STAR, Singapore)</i>
	ii. Topic: Development of CD137L-DC for cancer immunotherapy <i>Speaker: Associate Professor Dr. Herbert Schwarz (NUS, Singapore)</i>		ii. Topic: Leveraging big data analytics to transform healthcare: Insights and innovations <i>Speaker: Associate Professor Ir. Dr. Nazrul Anuar Nayan (HADHARI UKM, Malaysia)</i>
	iii. Topic: Leveraging on genetic vulnerabilities of head and neck cancer for therapeutic development <i>Speaker: Professor Dr. Cheong Sok Ching (Cancer Research, Malaysia)</i>		iii. Topic: Machine Learning Workflow in Molecular Medicine <i>Speaker: Professor Dr. Kamarul Imran Musa (USM, Malaysia)</i>
1600 - 1645	PLENARY 2 Grand Ballroom	Topic: Pharmacogenomics as a key driver for precision medicine in cardiovascular diseases <i>Speaker: Professor Dr. Dan Mark Roden (Vanderbilt University, USA)</i> <i>Chairperson: Associate Professor Dr. Low Teck Yew</i>	
1645	Tea Break, Booth and Poster Viewing		



Day 2 (Sunday 15 <sup>th</sup> October 2023)			
0830 - 0930	Meet the Experts		
	<b>Expert 1: Laureate Professor Dr. Rodney Scott (The University of Newcastle, Australia)</b> <b>Grand Ballroom</b> Chairperson: Dr. Lee Pey Yee		<b>Expert 2: Professor Dr. Muhammad Mukram Mohamed Mackeen (INBIOSIS, UKM, Malaysia)</b> <b>Cempaka Hall</b> Chairperson: Dr. Muhammad Redha Abdullah Zawawi
0930 - 1015	PLENARY 3 Grand Ballroom	<b>Precision Medicine for Malaysia: Strategies and Challenges</b> Speaker: Professor Datuk Dr. A Rahman A Jamal (UMBI, UKM, Malaysia) Chairperson: Associate Professor Dr. Neoh Hui-min	
1015 - 1030	Tea Break, Booth and Poster Viewing		
1030 - 1200	Symposium 5 Grand Ballroom	<b>Proteomics, Metabolomics and Lipidomic-based Biomarkers</b> Chairperson: Associate Professor Dr. Low Teck Yew	<b>Symposium 6 Cempaka Hall</b> <b>Infectious Diseases</b> Chairperson: Associate Professor Dr. Neoh Hui-min
		<b>i. Topic: Bitter-Sweet Sugars and the Evaluation of Glycosidase Inhibition Using the ERAD Pathway</b> Speaker: Professor Dr. Muhammad Mukram Mohamed Mackeen (INBIOSIS, UKM, Malaysia)	<b>i. Topic: Current knowledge of Malaysia microbiome: What do we know and how can we use the data to improve health?</b> Speaker: Associate Professor Dr. Chong Chun Wie (Monash University, Malaysia)
		<b>ii. Topic: Concordant inter-lab concentrations of ceramides in human plasma reference materials</b> Speaker: Assistant Professor Dr. Federico Tesio Torta (NUS, Singapore)	<b>ii. Topic: Dengue virus and mosquito-borne diseases in South-east Asia: Current trends in epidemiology, challenges and opportunities</b> Speaker: Professor Dr. Moi Meng Ling (University of Tokyo, Japan)
		<b>iii. Topic: Redefining cancer with small molecules: A new perspective for early detection</b> Speaker: Dr. Chin Siok Fong (UMBI, UKM, Malaysia)	<b>iii. Topic: Mitigating the Resurgence of Arbovirus Infections Post COVID-19 Pandemic</b> Speaker: Professor Dr. Sazaly Abu Bakar (Universiti Malaya, Malaysia)
1200 - 1230	Lunch Symposium (Biomarketing Services Sdn Bhd) Grand Ballroom		
1230 - 1400	Lunch, Booth and Poster Viewing		
1400 - 1530	Young Investigator Awards		
	Cancer Grand Ballroom	<b>Oral Presentation</b> Chairperson: Dr. Tan Shing Cheng	<b>Non-Cancer Cempaka Hall</b> <b>Oral Presentation</b> Chairperson: Dr. Siti Aishah Sulaiman
1530 - 1615	PLENARY 4 Grand Ballroom	<b>Topic: Developing blood-based longitudinal studies: The challenge and opportunity</b> Speaker: Professor Dr. Sarah Lewington (Oxford University, UK) Chairperson: Associate Professor Dr. Nor Azian Abdul Murad	
1615 - 1645	CLOSING & AWARDS CEREMONY Grand Ballroom		
1645	Tea Break		



# LIST OF SPEAKERS

1. Laureate Professor Dr. Rodney Scott  
(The University of Newcastle, Australia)



2. Professor Dr. Dan Mark Roden  
(Vanderbilt University, USA)



3. Professor Datuk Dr. A Rahman A Jamal  
(Universiti Kebangsaan Malaysia, Malaysia)



4. Professor Dr. Sarah Lewington  
(Oxford University, UK)



5. Dr. Nadiah Abu  
(Universiti Kebangsaan Malaysia, Malaysia)



6. Dr. Sakari Vanharanta  
(University of Helsinki, Finland)



7. Associate Professor Dr. Oon Chern Ein  
(Universiti Sains Malaysia, Malaysia)



8. Dr. Feisul Idzwan Mustapha  
(Ministry of Health, Malaysia)



9. Professor Dr. Norlaila Mustafa  
(Universiti Kebangsaan Malaysia, Malaysia)



10. Associate Professor Dr. Nirmala @ Chandraleaga A/P Kampan  
(Universiti Kebangsaan Malaysia, Malaysia)



11. Associate Professor Dr. Herbert Schwarz  
(National University of Singapore, Singapore)



12. Associate Professor Dr. Niranjan Nagarajan  
(A\*STAR, Singapore)



13. Associate Professor Ir. Dr. Nazrul Anuar Nayan  
(Universiti Kebangsaan Malaysia, Malaysia)



14. Professor Dr. Kamarul Imran Musa  
(Universiti Sains Malaysia, Malaysia)



15. Professor Dr. Muhammad Mukram Mohamed Mackeen  
(Universiti Kebangsaan Malaysia, Malaysia)



16. Assistant Professor Dr. Federico Tesio Torta  
(National University of Singapore, Singapore)



17. Dr. Chin Siok Fong  
(Universiti Kebangsaan Malaysia, Malaysia)



18. Professor Dr. Moi Meng Ling  
(University of Tokyo, Japan)



19. Associate Professor Dr. Chong Chun Wie  
(Monash University Malaysia, Malaysia)



20. Professor Dr. Szaly Abu Bakar  
(Universiti Malaya, Malaysia)



21. Associate Professor Dr. Nor Azian Abdul Murad  
(Universiti Kebangsaan Malaysia, Malaysia)



22. Professor Dr. Cheong Sok Ching  
(Cancer Research, Malaysia)



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# MEET THE EXPERT SESSIONS

15<sup>th</sup> October 2023  
0800 - 0900

## Laureate Professor Dr. Rodney Scott Grand Ballroom



A distinguished geneticist, has devoted his research to understand the relationship between the genetic basis of disease and environmental exposures that potentially impinge on the ability to maintain genomic integrity. Professor Scott has an extensive record in genome analysis and has published on diseases that include multiple sclerosis, stroke, endometrial cancer, childhood leukaemia and schizophrenia to name but a few. He is considered an international expert in colorectal and breast cancer genetics and has also published extensively on hereditary aspects of this disease and was the first to identify breast cancer as part of the spectrum of disease in the colorectal cancer predisposition Lynch Syndrome. Through his significant contributions to Medical Genetic field, Professor Scott has received many accolades including Outstanding Cancer Researcher of the Year, Hunter Medical Research Institute award for Research Excellence, Fellowship of the Faculty of Science, Royal College of Pathologists of Australasia and Fellowship of the Royal Society of NSW.

## Professor Dr. Muhammad Mukram Mohamed Mackeen Cempaka Hall

Prof. Dr. Mukram adeptly melds chemistry and biology to investigate carbohydrates, proteins, and natural products/secondary metabolites. His research uniquely applies organic and physical chemistry to address biological complexities through in vitro and cell-based models. Additionally, he seamlessly integrates biochemistry, cell, and molecular biology to enhance chemistry, resulting in applications encompassing organic synthesis, biophysical analyses, and structural elucidation. Noteworthy accomplishments span glycomics and proteomics for structure determination, enzymatic synthesis of carbohydrates, bioactive natural product isolation, and the exploration of protein modifications such as deubiquitination, epigenetic methylation, acetylation, glycosylation, and hydroxylation.



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# LUNCH SYMPOSIUM TALK

14<sup>th</sup> October 2023

1230 - 1300

Grand Ballroom

## What's Missing Matters! Deeper Insight with Nanopore Sequencing



**Dr. Keira Cheetham (Ph.D.)**

*Director of Cancer Informatics and Interpretation  
Oxford Nanopore Technologies*

Dr. Keira Cheetham is the Director of Cancer Informatics and Interpretation at Oxford Nanopore Technologies, United Kingdom. She has more than 15 years of experience in cancer genomics and bioinformatics, including variant calling, reporting, data visualisation and interpretation tools. Before joining Oxford Nanopore Technologies, she worked at Illumina Inc. and managed the development and running of BaseSpace Variant Interpreter - a clinical interpretation tool for the NHS Genomics Medicine Service programme. She also designed and executed the bioinformatics and data analysis on the first Solexa whole human genome and the first Illumina tumour-normal genomes. She obtained her Ph.D. in 2003 from the University of Cambridge, in the field of biochemistry.

**Sponsored by:**



**Next Gene Scientific Sdn Bhd**

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# LUNCH SYMPOSIUM TALK

15<sup>th</sup> October 2023

1200 - 1230

Grand Ballroom

## Impact of Rapid Next-Generation-Sequencing in Precision Oncology



**Ms. Kwan M. S. Svetta (BBus, RN)**  
*Business Development Manager of Oncology,  
Next-Generation-Sequencing  
Thermo Fisher Scientific*

Ms. Svetta has more than 9 years of experience in clinical oncology space, working closely with Medical Oncologists and Pharmaceutical industry in Southeast Asia region with project management. Prior to Thermo Fisher Scientific, she started as a clinical registered nurse for 4 years with wide understanding on patient clinical needs, she was with Novartis Oncology as a product specialist and marketing involvement in oncology clinical treatment discussions over 7 years.

***Sponsored by:***



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# LIST OF ORAL PRESENTATIONS

Cancer 15 <sup>th</sup> October 2023 Grand Ballroom	
1400	<b>O1</b> <b>Elucidation of Epstein-Barr Virus (EBV) Encoded Latent Membrane Protein-1 (LMP-1) 30 bp Deletion Mutation Effect on Immune Checkpoint Regulation in EBV-Associated Nasopharyngeal Carcinoma (NPC) and Non- NPC Cancers</b> <i>Naveed Ahmed, Department of Medical Microbiology and Parasitology, School of Medical Sciences, Universiti Sains Malaysia</i>
1415	<b>O2</b> <b>High Throughput DIA-NN Proteomics Identifies Altered Extracellular Protein Network in CRISPR-Targeted AGR2 of Breast Cancer Cells</b> <i>Syazalina Zahari, UKM Medical Molecular Biology Institute (UMBI)</i>
1430	<b>O3</b> <b>Lipidome Analysis and Potential Lipid Biomarkers in Glioblastoma Tissue Using Untargeted Lipidomic Analysis</b> <i>Khairunnisa Abdul Rashid, Department of Biomedical Imaging, Faculty of Medicine, University of Malaya</i>
1445	<b>O4</b> <b>TCR Profiling of Cytotoxic T cells Targeting Neoantigens from Colorectal Cancer Patients</b> <i>Nurul Ainaa' Adilah Rus Bakarurraini, UKM Medical Molecular Biology Institute (UMBI)</i>
1500	<b>O5</b> <b>Lutein Inhibits the Triple Negative Breast Cancer Cell Progression by Suppressing the Protumour Effects of Tumour-Associated Macrophages</b> <i>Redzyque Ramza Ramli, Department of Chemical Pathology, School of Medical Sciences, Universiti Sains Malaysia</i>
1515	<b>O6</b> <b>Super Enhancer Upstream Regulators Drive KLF6-PDGFB Expression and mTORC1 Pathway Activation in Renal Carcinoma</b> <i>Nurul Nadia Mohamad Zamberi, UKM Medical Molecular Biology Institute (UMBI)</i>

Non-Cancer 15 <sup>th</sup> October 2023 Cempaka Hall	
1400	<b>O7</b> <b>Predictive Modelling of Cardiovascular Risk in Type 2 Diabetes Mellitus Patients: A K Nearest Neighbours Approach</b> <i>Kee Ooi Ting, UKM Medical Molecular Biology Institute (UMBI)</i>
1415	<b>O8</b> <b>Alteration of Gut Microbiota in Systemic Lupus Erythematosus (SLE)</b> <i>Cham Qin Shi, Department of Medicine, Faculty of Medicine, Universiti Kebangsaan Malaysia</i>
1430	<b>O9</b> <b>Gene Expression Profiling of the Extracellular Vesicles From the Insulin- Resistant Adipocytes</b> <i>Vicneswary Dorairaj, UKM Medical Molecular Biology Institute (UMBI)</i>
1445	<b>O10</b> <b>Functional Impact of Selected DNA Repair Gene Polymorphisms: Insights From <i>In Silico</i> Analyses</b> <i>Hilary Sito Pei-Ching, UKM Medical Molecular Biology Institute (UMBI)</i>
1500	<b>O11</b> <b>Characterisation of Extracellular Vesicle Released From Hepatocytes With Excessive Lipid Accumulation</b> <i>Muhammad Nafiz Haidi Adrus, UKM Medical Molecular Biology Institute (UMBI)</i>
1515	<b>O12</b> <b>Metabolic Signatures in Obesity: Discovery of Promising Independent Biomarkers</b> <i>Anis Adibah Osman, UKM Medical Molecular Biology Institute (UMBI)</i>

# LIST OF POSTERS

P1	<b>Expression of Receptor Activator of Nuclear Factor-Kappa B (RANK) Protein in ER-Positive Pre-Therapeutic Breast Cancer Tissues</b> <i>Alaa Siddig, Department of Pathology, School of Medical Sciences, Universiti Sains Malaysia</i>
P2	<b>The Incidence Rate and Characteristics of Positive Individuals for COVID-19 in Perak, Malaysia: July - December 2021</b> <i>Filza Noor Asari, Institute for Public Health, National Institute of Health, Ministry of Health</i>
P3	<b>Clinical Validation of a CircANAPC7 Basescope Probe for the Detection of FOLFOX Chemoresistant Colorectal Cancer Via In Situ Hybridization</b> <i>Nur Syafiqah Abd Hakim, UKM Medical Molecular Biology Institute (UMBI)</i>
P4	<b>Assessment of WGS In Silico HLA Typing Tools Against Molecular HLA Typing Method</b> <i>Hamidah Akmal Hisham, Molecular Pathology Unit, Institute for Medical Research, National Institute of Health</i>
P5	<b>Microbiome, Race and Breast Cancer: Is There an Asian-Specific Gut Microbiome That May Affect Breast Cancer?</b> <i>Audrey Weng Yan Lee, Cancer Research Malaysia</i>
P6	<b>Navigating Cardiovascular Risk in Type 2 Diabetes: Potential Roles of Lipid Peroxidation and Cardiometabolic Markers</b> <i>Harmiza Harun, UKM Medical Molecular Biology Institute (UMBI)</i>
P7	<b>The Effect of ZFAS1 Silencing on Cell Viability in Glioblastoma Cell Lines LN18 (PTEN Wildtype) and U87MG (PTEN Mutant)</b> <i>Engku Maryam Afifah Engku Omar Amiruddin, Institute of Medical Molecular Biotechnology (IMMB), Faculty of Medicine, Universiti Teknologi MARA</i>
P8	<b>Hyperglycemic Induced Pluripotent Stem Cell (iPSC) Reprogramming: Unveiling the Bittersweet Epigenetic Memories in iPSCs and Their Differentiated Endothelial Cells 11/12</b> <i>Khoo Tze Sean, UKM Medical Molecular Biology Institute (UMBI) 10/9</i>
P9	<b>Hsa-miR-181a-5p, Hsa-miR-182-5p, and Hsa-miR-26a-5p As New Biomarkers for Undetermined BCR-ABL1 in Chronic Myeloid Leukemia Patients Treated With Tyrosine Kinase Inhibitors</b> <i>Aliza Mohd Yacob, Cancer Research Centre, Institute for Medical Research, National Institutes of Health</i>
P10	<b>Polygenic Risk Score Significantly Predicted Coronary Heart Disease Death Among Those With Type 2 Diabetes in The Malaysian Cohort</b> <i>Khairul Anwar Zarkasi, UKM Medical Molecular Biology Institute (UMBI)</i>
P11	<b>Revealing Uncharted Depths of the Dark Proteome: A Re-examination of Mass Spectrometry Data Uncovers New Insights into Colorectal Cancer Microproteins</b> <i>Low Teck Yew, UKM Medical Molecular Biology Institute (UMBI)</i>
P12	<b>Demethylbelamcandaquinone B from <i>Marantodes pumilum</i> var. <i>alata</i> (Blume) Kuntze Inhibits Osteoclast Differentiation in RAW264.7 Cells</b> <i>Haryati Ahmad Hairi, Department of Biochemistry, Faculty of Medicine, Manipal University College</i>



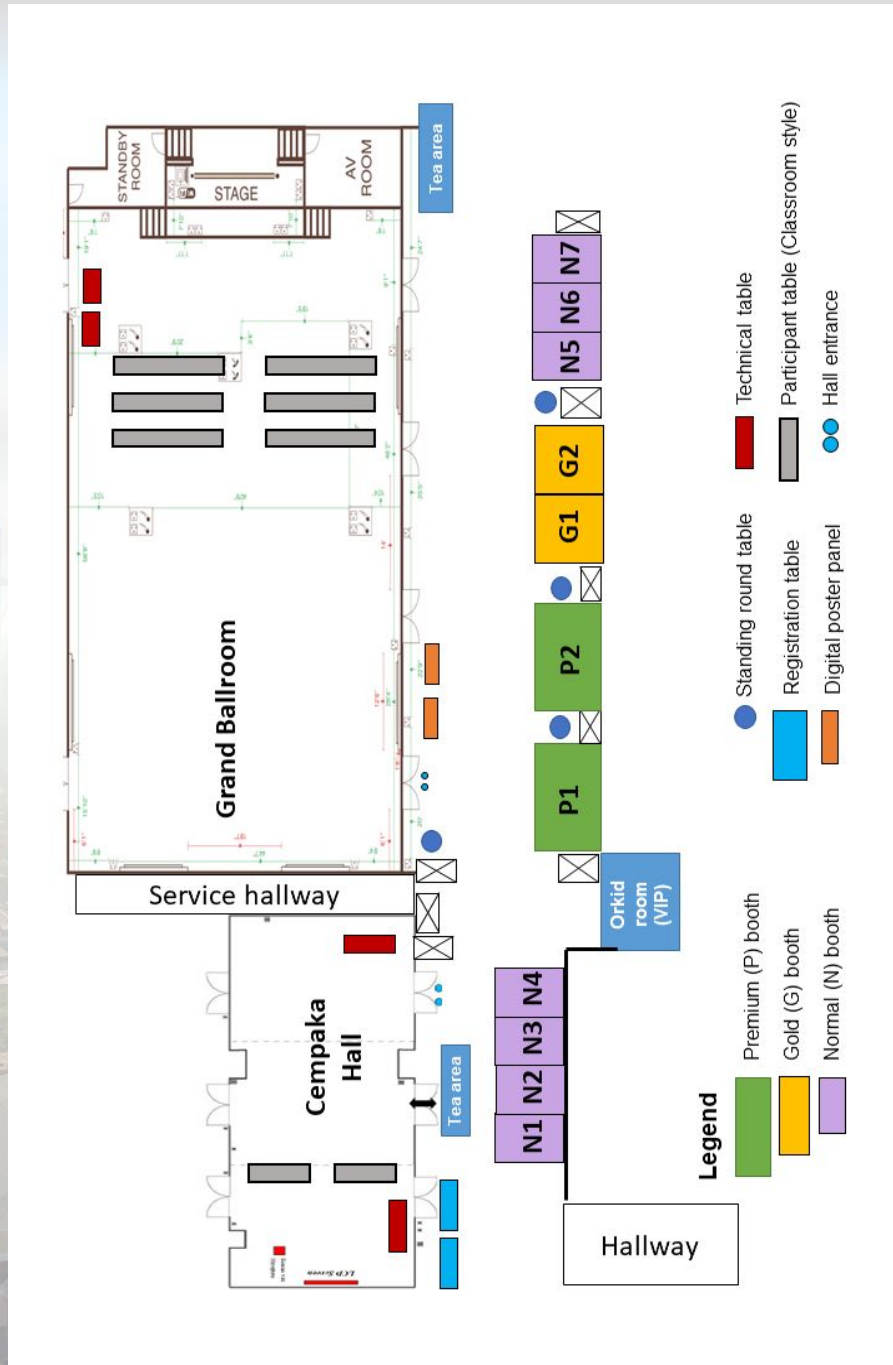
P13	<b>GPC3 Alterations and Interactions in Lung Adenocarcinomas: A Comprehensive Data Mining Study of Publicly Available Datasets</b> <i>Tan Shing Cheng, UKM Medical Molecular Biology Institute (UMBI)</i>
P14	<b>Phytochemical Profiling and DPPH (2,2-diphenyl-1-picrylhydrazyl) Radical Scavenging Activities of the Crude Extract Ethanol <i>Laportea decumana</i> Rob. Wedd</b> <i>Lukman La Basy, Faculty of Pharmacy, Universitas Gadjah Mada, Indonesia</i>
P15	<b>Unraveling AGR2 Regulation in Breast Cancer: Insights from RNA-Seq Analysis of CRISPR/Cas9 Mediated Targeting</b> <i>M. Aiman Mohtar, UKM Medical Molecular Biology Institute (UMBI)</i>
P16	<b>Integrative Pipeline to Analyze Immune Cells in Digital Pathology Images</b> <i>Haslina Makmur, Cancer Research Malaysia</i>
P17	<b>KCNN4 Mutation Presenting With Non-Immune Hydrops Haemolytic Anaemia</b> <i>Nur Mashitah Abdullah, Department of Pediatrics, Hospital Pakar Kanak-Kanak (HPKK), The National University of Malaysia</i>
P18	<b>Risk Factors of Long COVID in Klang Valley Malaysia: A Snapshot from the COVGEN Study</b> <i>Noraidatulakma Abdullah, UKM Medical Molecular Biology Institute (UMBI)</i>
P19	<b>Development of Breast Cancer Spheroids as a Model for a Pre-Clinical Evaluation Using Vitamin C As Anti-Cancer Agent</b> <i>Ali Saeed Ali Mussa, Department of Haematology, School of Medical Sciences, Universiti Sains Malaysia</i>
P20	<b>Dipeptidyl Peptidase 4 (DPP IV) Inhibitory Activity of Leaf Extract and Sesquiterpene Lactones Isolated From <i>Smallanthus sonchifolius</i></b> <i>Hady Anshory Tamhid, Faculty of Pharmacy, Universitas Gadjah Mada, Indonesia</i>
P21	<b>A KLF6-Dependent PDGFB-mTOR Signalling Loop Links Lipid Homeostasis and Tumor Growth in Renal Carcinoma</b> <i>Saiful Effendi Bin Syafruddin, UKM Medical Molecular Biology Institute (UMBI)</i>
P22	<b>Advancements in Amber Suppression Technology: A Window into Molecular Interactions of Human Viruses</b> <i>Nur Firdaus Isa, Department of Biotechnology, Kulliyah of Science, International Islamic University Malaysia</i>
P23	<b>Metabolomic Fingerprinting and Footprinting Analyses on TNBC sh-TINCR Cell Lines</b> <i>Mohd Ikhwan Ismail, Faculty of Pharmacy, Universiti Teknologi MARA</i>
P24	<b>Evaluation and Optimisation of Adipogenic Differentiation Protocol for the Human Adipocyte Tissue-derived Stem Cells</b> <i>Siti Aishah Sulaiman, UKM Medical Molecular Biology Institute (UMBI)</i>
P25	<b>SLC6A14 Expression and Methionine Uptake Increased in Advanced Colorectal Cancer Cells Stage</b> <i>Hazwani Mohd Yusof, Department of Biochemistry, Faculty of Medicine, Manipal University College Malaysia</i>

P26	<b>Optimization of Annealing Temperature for Dengue Virus Serotyping Using Multiplex Polymerase Chain Reaction (PCR) Technique</b> <i>Nurul Syafiqah Nabilah Abdul Kadir, UKM Medical Molecular Biology Institute (UMBI)</i>
P27	<b>Current Status of Predictive Serum Biomarkers for Polyps and Colorectal Cancer</b> <i>Maryam Fatimah Abu Bakar, Department of Public Health Medicine, Faculty of Medicine, Universiti Kebangsaan Malaysia</i>
P28	<b>High-Throughput Genotyping of Asian-Specific Genetic Variants Associated With Colorectal Cancer Risk in the Malaysian Population: A Pilot Study</b> <i>Sharzehan Mohamad Ayub Khan, UKM Medical Molecular Biology Institute (UMBI)</i>
P29	<b>Novel Ryr2 Receptor Gene Mutation Presenting with Cardiac Tumour and Refractory Arrhythmias: Case Report and Systemic Review</b> <i>Nur Mashitah Abdullah, Department of Pediatrics, Hospital Pakar Kanak-Kanak (HPKK), The National University of Malaysia</i>
P30	<b>Whole exome sequencing (WES) in Mullerian Agenesis and Anorectal Anomaly: A Case Study</b> <i>Nor Azian Abdul Murad, UKM Medical Molecular Biology Institute (UMBI)</i>
P31	<b>Integrin Beta 1/CD29: A preliminary Investigation into a Possible GBM EV Surface Marker</b> <i>Johannes Low Jun Wei, UKM Medical Molecular Biology Institute (UMBI)</i>
P32	<b>Radioactive Iodine Refractory Papillary Thyroid Cancer: ABC Transporter Genes Under the Microarray Lens</b> <i>Nur Fadhlina Mohamad Pakarulrazy, UKM Medical Molecular Biology Institute (UMBI)</i>
P33	<b>CovGen Study: Dissecting COVID-19 Symptom Severity and Risk Factors</b> <i>Nor Adzimah Johdi, UKM Medical Molecular Biology Institute (UMBI)</i>
P34	<b>High Glucose Level Reduces Cisplatin Chemosensitivity in Cervical Cancer Cells</b> <i>Siti Aisyah Md Sanib, Cluster of Integrative Physiology and Molecular Medicine, Universiti Kuala Lumpur Royal College of Medicine</i>
P35	<b>Chemical Characterization, Antioxidant Potential and In Vitro Anticancer Properties of Rice (<i>Oryza sativa</i> var Bajong) from Sarawak</b> <i>Lam Xiu Qian, Department of Paraclinical Sciences, Faculty of Medicine and Health Sciences, Universiti Malaysia Sarawak</i>
P36	<b>LRG1 Induces Lysosomal Autophagy via Dysregulation of the mTOR Pathway</b> <i>Lim Su Min, UKM Medical Molecular Biology Institute (UMBI)</i>
P37	<b>Chemosensitization of TINCR: Potential Key Regulator to Chemoresistance in Triple Negative Breast Cancers (TNBCs)</b> <i>Ezanee Azlina Mohamad Hanif, UKM Medical Molecular Biology Institute (UMBI)</i>



# EXHIBITION LAYOUT

Please visit all the exhibition booths. Refer below for the location of each exhibition booths.



Booth	Company	Booth	Company
P1	Next Gene Scientific Sdn Bhd	N3	Genomax Technologies Sdn Bhd
P2	Biomed Global Thermo Fisher Scientific	N4	FC BIOS Sdn Bhd
G1	QIAGEN Biotechnology Malaysia Sdn Bhd	N5	Neoscience Sdn Bhd
G2	Agilent Technologies (M) Sdn Bhd	N6	IT Tech Research (M) Sdn Bhd
N1	BioSpensa Resources	N7	Analisa Resources (M) Sdn Bhd
N2	Apical Scientific Sdn Bhd		

# CONFERENCE INFORMATION

## Conference Secretariat

### UKM Medical Molecular Biology Institute (UMBI)

Jalan Ya'acob Latiff, Bandar Tun Razak,  
56000 Cheras, Kuala Lumpur, Malaysia  
Phone: 603-91718459 / 8461  
Fax: 603-91717185  
Email: [rcmm.umbi@gmail.com](mailto:rcmm.umbi@gmail.com)  
Website: <https://www.ukm.my/umbi/>

## Language

The official language of the conference is English.

## Certificate of Attendance

An electronic certificate of attendance will be issued to all registered delegates.

## Parking

All participants are eligible for free parking at the hotel parking area (non-VIP).

## WIFI and Internet Access

Free WIFI or internet access is available for all participants upon registration. Please ask the secretariat and information counter for more information.

## Instructions to Presenters

Please see details in <https://www.ukm.my/umbi/rcmm-2023/> for more information. All sessions will be held in the respective place which is equipped with a computer, Wi-Fi, a projector and a screen. Presenters are requested to bring their own USB device so that they can upload their presentations onto the computer. To save time, this procedure should be done during the break preceding the session.

## e-Poster Exhibition

The poster exhibition will be displayed continuously on the digital poster panels. Please refer to the website at <https://www.ukm.my/umbi/rcmm-2023/>, as well as the full list of the selected abstracts.

## Booth Exhibition

A trade exhibition will be held at the lobby of the conference venue. Please refer to the layout and the directory of the exhibitors on page 15.

## Insurance

The Secretariat cannot accept liability for personal injuries and/or loss or damage to property belonging to meeting participants, either during or as a result of the meeting.



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Dr. Muhammad Aimanuddin Mohtar  
Dr. Nadiah Abu  
Dr. Lee Pey Yee

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Dr. Ezanee Azlina Mohamad Hanif  
Dr. Siti Aishah Sulaiman  
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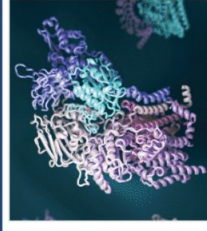
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- Cell Dissociation Reagent

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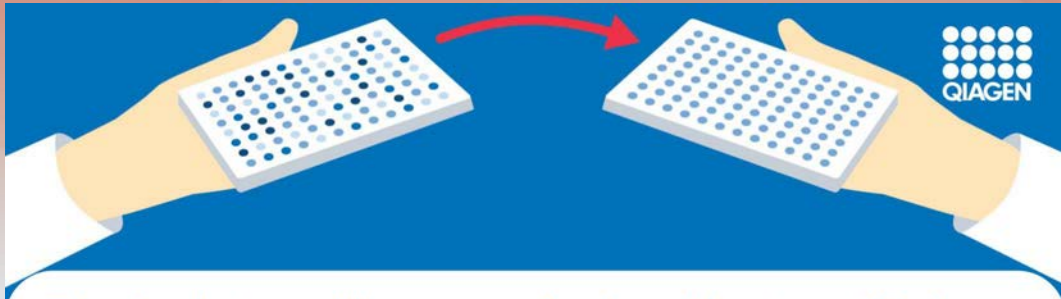
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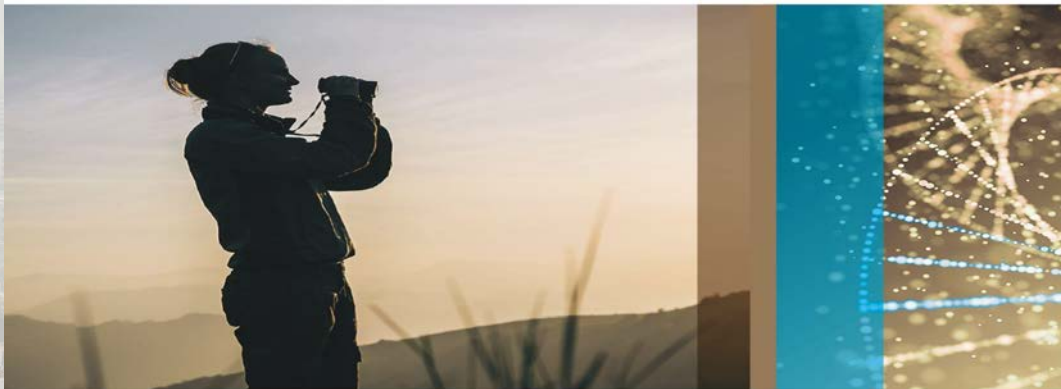


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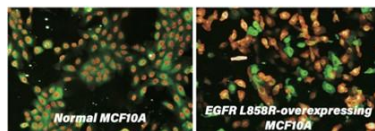


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