

**THE 4th INTERNATIONAL  
CONFERENCE ON ADVANCES IN  
MEDICAL SCIENCE  
(ICAMS 2019)**

**Nurturing Health Professionals in  
Education and Research**

**Waterfront Hotel,  
Kuching, Sarawak  
12<sup>th</sup> – 14<sup>th</sup> April 2019**



**Program Book**

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## MESSAGE FROM THE DEPUTY MINISTER



**Dr. Lee Boon Chye**  
**Deputy Minister**  
**Ministry of Health Malaysia**

Delivery of good healthcare to ensure citizens are as healthy as possible is the responsibility of the government. It is because good health is fundamental to happiness and dignity.

A healthy population is also key to economic and social development as well as the prosperity of the nation.

One of the ways of improving healthcare is through continuing research and development and the subsequent application of these research findings in enabling innovations and improvements.

Conferences and scientific meetings such as this allow the scientific community to share ideas and to collaborate. This gives opportunities to improve as well as to open up new possibilities and directions in advancement. The contents from various presentations and discussions, with the presence of delegates, including experts from around the region, can provide us with excellent opportunities to share and to discuss information related to these fields.

This Conference with the theme “Nurturing Health Professionals in Education and Research” highlights the importance of converting research and development findings into innovative practices which will further enhance national healthcare development. This will also encourage health professionals in doing research and be involved in education. The government has spent a sizable amount of funds supporting research, development, and innovation as these are vital to improve our healthcare system. We believe research, development, and innovation can contribute to the economic development of the nation and bring about the prosperity of our people.

I would like to congratulate the ICAMS 2019 committee for organizing this conference. Let us work together and I am sure there will be innovative ideas which can contribute to better health for the nation.

Finally, I wish you success in ICAMS 2019.

A handwritten signature in black ink, appearing to be 'Lee Boon Chye'.

**Dr. Lee Boon Chye**  
Deputy Minister, Ministry of Health MALAYSIA

## MESSAGE FROM THE VICE CHANCELLOR UKM



**YBhg. Prof Ir Dr Mohd Hamdi Abd Shukor**  
**The Vice Chancellor UKM**

Assalamualaikum      warahmatullahi  
wabarakatuh and salam sejahtera

On behalf of Universiti Kebangsaan Malaysia, I am very pleased to welcome all speakers, guest and delegates, both local and international to Kuching, Sarawak and to the 4<sup>th</sup>

International Conference on Advances in Medical Science (ICAMS), 2019.

I would like to congratulate the three research groups, namely the Bone Metabolism, Stress Enzyme and Cardiovascular groups, under the Health & Medical Technology niche of Universiti Kebangsaan Malaysia. In particular, Dr. Elvy Suhana Mohd Ramli, The Organising Chairperson, and her team.

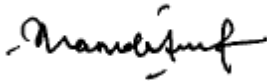
This is one of the awaited events devoted to health science and practice of medicine, and I hope it will give participants a platform to exchange ideas, discover novel opportunities, reacquaint with colleagues, meet new friends, and broaden the knowledge. I sincerely hope this conference can provide the ideal environment to stimulate ideas and establish collaboration, networking opportunities as well as to initiate intense discussions. I am confident that such collaborative interaction will lead to building a long term partnership between our institutes and the other teaching, research and industrial institutions in Malaysia and abroad.

The theme “Nurturing Health Professionals in Education and Research” the conference broadly cover all disciplines of medical science from fundamental research to “blue sky” applications, highlighting global scientific interactions and collaborations. A wide

range of disciplines is covered in ICAMS such as Natural product, Complementary & Alternative Medicine, Bone Metabolism & osteoporosis, Cardiovascular health, Stress Enzyme and Hormones, Infectious diseases, Genomics and Proteomics, Pharmacology and Toxicology, Cancer, Clinical medicine, Metabolic disorders, Sports Medicine and Allied Health Sciences. By doing research and innovation, it will improve the national healthcare.

I wish you a successful conference and to the foreign participants, an enjoyable stay in Sarawak, Malaysia.

Thank you.



**Prof. Ir. Dr. Mohd Hamdi Abd Shukor**  
Vice-Chancellor  
Universiti Kebangsaan Malaysia

## MESSAGE FROM THE CONFERENCE CHAIR



**Dr Elvy Suhana Mohd Ramli**  
**The Conference Chair**  
**Department of Anatomy**  
**Universiti Kebangsaan Malaysia**

Assalamualaikum warahmatullahi wabarakatuh  
and salam sejahtera

It gives us immense pleasure to welcome you all to the 4th International Conference on Advances in Medical Science 2019. This international conference is mainly hosted by the three research groups in the Faculty of Medicine, UKMMC, namely the Bone Metabolism, Cardiovascular and Stress Enzyme groups on 2-yearly basis.

The theme for this year's conference is 'Nurturing the Health Professionals in Education and Research'. We hope that this conference will provide an excellent platform and ample opportunity to share our research ideas related to the medical science, teaching and patient care. We are delighted to receive our esteemed delegates and speakers from other institutions as well as abroad.

This year, the conference has a variety of lectures from eminent scientists and personalities who are experts in their respective field of research, worldwide. This conference is aimed to provide the latest knowledge which may be used for future research and networking. Special presentations for young scientists will also boost the morale of the young scientists.

The social highlight of the programme is the gala dinner on the river cruise on the 13th April (Saturday) evening. This cultural get-together along with chosen delicacies of Sarawak will certainly be enjoyed by all attendees. The conference also provides an opportunity to explore the beauty of the nature and culture of Sarawak, situated in the historic land of Borneo, East Malaysia.

We hope that the scientific and social programme in this conference meets all your expectations. Wishing you the very best !!!!

## PROGRAMME

<b>Day 1   Saturday, 13 April 2019  Venue: Waterfront Hotel Kuching, Sarawak</b>	
8.00 – 9.00 am	Registration
8.30 – 9.00 am	Arrival of guests/dignitaries
9.00 – 9.05 am	Du'a Recital
9.05 – 9.15 am	Welcome speech by Chairman of 4 <sup>rd</sup> ICAMS Dr. Elvy Suhana Mohd Ramli
9.15 – 9.30 am	<b>Welcome Speech by Vice Chancellor Universiti Kebangsaan Malaysia</b>
9.30 – 9.45 am	<b>Inaugural Speech</b> <b>The Honorable Dr Lee Boon Chye</b> Deputy Health Minister of Malaysia
9.45 – 10.30 am	Group photography session Tea/coffee & Poster viewing
10.30 – 11.15 am	<b>Keynote Lecture</b> <b>Prof. Emerita Tan Sri Dato' Sri Dr. Sharifah Hapsah Syed Hasan Shahabudin</b> <b>Professor Emerita of Medical Education and former Vice Chancellor of Universiti Kebangsaan Malaysia (Malaysia)</b> <i>Title: Nurturing Health Professionals In Education And Research</i> <i>Chairperson: Dr. Satirah Zainalabidin</i> <i>Venue: Tubau 1,2,3</i>
11.15 – 11.45 am	<b>Plenary talk 1</b> <b>Prof Dr Ima Nirwana Soelaiman</b> <b>Universiti Kebangsaan Malaysia</b> <i>Title: In Vitro Studies On The Effects Of Tocotrienol On Bone Cells</i> <i>Chairperson: Prof. Dr. Norazlina Mohamed</i>



11.45-12.45 pm

**Young Investigator Presentation 1**

*Chairperson: Prof. Dr. Norzana Abd Ghafar*

*Venue: Tubau 1,2,3*

**YIA01** *REGRESSION OF INVASIVE DUCTAL CARCINOMA TREATED WITH SIROLIMUS AND SUNITINIB IN NMU-INDUCED ANIMAL CANCER MODEL*

Nurul Fathiyatul Nabila Jaffar, Muhammad Shahidan Muhammad Sakri, Tengku Ahmad Damitri Al-Astani b Engku Daud@Tengku Din, Hasnan Jaafar

**YIA02** *MESENCHYMAL STEM CELLS-DERIVED NEURAL PROGENITOR STEM CELLS TREATED IMPROVES FUNCTIONAL RECOVERY IN RAT SPINAL CORD INJURY*

Putri Nur Hidayah Al-Zikri, Fauziah Mohamad Idris, Jafri Malin Abdullah, Hasnan Jaafar

**YIA03** *DYSREGULATION OF EMT MARKERS DRIVEN BY EPIGENETIC REGULATOR SETD1A IN TRIPLE NEGATIVE BREAST CANCER CELL LINES*

Ezanee Azlina Mohamad Hanif, Paul B Mullan

**YIA04** *OPTIMISATION OF A PC 12 CELL-BASED IN VITRO STROKE MODEL FOR SCREENING POTENTIAL NEUROPROTECTIVE AGENTS*

Pin Fen Chua, William K. Lim

**YIA05** *TRPC3-NOX2 COMPLEX ACTIVATION UNDERLIES ADENOSINE TRIPHOSPHATE (ATP)-INDUCED CARDIOMYOCYTE ATROPHY*

Suhaini Sudi, Motohiro Nishida, Caroline Sunggip

	<p><b>YIA06</b> <i>TREATMENT WITH TRF MODULATES OXIDATIVE STRESS-INDUCED OSTEOCLAST DIFFERENTIATION AND ITS ACTIVITY IN VITRO</i></p> <p>Nur Fathiah Mohd Radzi, Zakiah Jubri, Suzana Makpol, Ima Nirwana Soelaiman and <u>Ekram Alias</u></p>	
12.45– 2.00 pm	<p><b>LUNCH ,PRAYER/ POSTER JUDGING</b></p>	
2.00 – 2.20 pm	<p style="text-align: center;"><b>SYMPOSIUM 1: FUNDAMENTAL RESEARCH</b></p> <p>Chairperson: Dr Norhazlina Abd Wahab</p> <p style="text-align: center;">Venue : Tubau 1,2,3</p>	<p style="text-align: center;"><b>SYMPOSIUM 2: MEDICAL EDUCATION</b></p> <p>Chairperson: Assoc Prof Dr Norliza Muhammad</p> <p style="text-align: center;">Venue : Kerangas</p>
	<p style="text-align: center;"><b>Symposium speaker 1:</b></p> <p><b>Dr Chua Chee Wai</b> <b>Shanghai Jiao Tong</b> <b>University (China)</b> <i>Intrinsic Androgen Receptor Independence In Prostate Epithelial Cells</i></p>	<p style="text-align: center;"><b>Symposium speaker 2:</b></p> <p><b>Prof. Datuk Dr Harlina Halizah Hj Siraj</b> <b>Universiti Kebangsaan Malaysia (Malaysia)</b> <i>Teaching And Assessing Clinical Reasoning – Are We Doing Right?</i></p>
2.20 – 4.00 pm	<p style="text-align: center;"><b>Free oral communication 1</b></p> <p><b>OC01</b> <i>SYNERGISTIC ANTIBACTERIAL EFFECT OF LEAF, ROOT, AND STEM BARK EXTRACTS OF ACACIA NILOTICA AND PSIDIUM GUAJAVA ON EXTENDED SPECTRUM BETA LACTAMASE (ESBL) PRODUCING ESCHERICHIA</i></p>	<p style="text-align: center;"><b>Free oral communication 2</b></p> <p><b>OC08</b> <i>SEXUAL DIMORPHISM OF THE SUBPUBIC ANGLE: A PRELIMINARY STUDY USING COMPUTED TOMOGRAPHY (CT) SCAN IN MALAYSIANS</i> <u>Siti Hanum Mohd Ali.</u> Normaliza Omar, Mohamed Swarhib Shafie, Nik Azuan Nik Ismail, Helmi Hadi, Faridah</p>

	<p><i>COLI AND KLEBSIELLA PNEUMONIA</i> Salawudeen A, Agbo E.B, Tahir F, Suleiman M.A, Adamu M.T</p> <p><b>OC02</b> <i>ANTIDIABETIC POTENTIAL OF A NOVEL FORMULATION OF FUNCTIONAL FOODS IN PATIENTS WITH TYPE 2 DIABETES MELLITUS: A SINGLE CENTRE, SINGLE BLIND, PROSPECTIVE INTERVENTIONAL STUDY</i> Md. Moklesur Rahman Sarker, Taslima Haque Tandra, Selina Akhter, Jama Said Muse</p> <p><b>OC03</b> <i>PALMITIC RICH INTERESTERIFIED FATS ELEVATED PLASMA HDL, LARGE HDL SUB-FRACTIONS AND REGULATION OF HEPATIC GENES BY ENHANCING CHOLESTEROL CLEARANCE PATHWAY VIA REVERSE CHOLESTEROL TRANSPORT (RCT) IN A HAMSTER MODEL</i> <u>Gowri Nagapan</u>, Goh Yong Meng, Che Anisahs Che Idris, Noor Lida Mat Dian, Kanga Rani Selvaduray and Naganدران Balasundram</p>	<p>Mohd Nor <b>OC09</b> <i>PAST, PRESENT AND FUTURE STATUS OF HIV/AIDS GLOBAL PANDEMIC</i> Narendra Kumar Chopra, Ma Han Ni</p> <p><b>OC10</b> <i>AGE ESTIMATION FROM DENTAL IMAGING ON PREMOLARS IN ADULTS</i> Donni S, Haslinda R, Phrabhakaran N, Aspalilah A</p> <p><b>OC11</b> <i>POST-MORTEM CHANGES OF SUS SCROFA DOMESTICA IN EQUATORIAL CLIMATE IN SARAWAK, MALAYSIA</i> Ting Kwong Ing, Normaizatul Afizah Ismail, Faridah Mohd Nor, Ab Halim Mansar</p> <p><b>OC12</b> <i>MICROARRAY ANALYSIS OF THE MOLECULAR MECHANISM INVOLVED IN EOPD AND LOPD PATIENTS IN MALAYSIA</i> <u>Nor Ilham Ainaa Muhsin</u>, Wan Fahmi Wan Mohamad Nazarie, Ahmad Rasyadan Arshad, Muhiddin Ishak, Zamzureena Mohd Rani, Fairuz Fatin Zolkafali, Ambrose Louise, Siti</p>
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	<p><b>OC04</b> <i>THE EVALUATION OF LIVER OXIDATIVE STRESS PARAMETERS IN METABOLIC SYNDROME RATS TREATED WITH TOCOTRIENOL</i>  <u>Wong Sok Kuan</u>, Chin Kok-Yong, Ima-Nirwana Soelaiman</p> <p><b>OC05</b> <i>THE EFFECTS OF OIL PALM PHENOLICS (OPP) ON LIPID METABOLISM BIO-MARKERS OF HYPERLIPIDAEMIC GOLDEN SYRIAN HAMSTER</i>  SB Syarifah-Noratiqah, Syed Fairus, HMS Qodriyah, Isa Naina-Mohamed</p> <p><b>OC06</b> <i>RESVERATROL PREVENTS NICOTINE-INDUCED HYPERTENSION AND CARDIAC DYSFUNCTION IN RATS</i>  <u>Anand Ramalingam</u>, Norsyahida Mohd. Fauzi, Siti Balkis Budin, Rebecca H. Ritchie, Satirah Zainalabidin</p> <p><b>OC07</b> <i>TESTOSTERONE REDUCES EXPRESSION OF MECA-79 AND NUMBER OF EMBRYO IMPLANTATION SITE IN EARLY PREGNANCY</i></p>	<p>Aishah Sulaiman, A Rahman A Jamal, Nor Azian Abdul Murad</p> <p><b>OC13</b> <i>PERTURBATION OF HOST-MICROBES INTERACTION IN GUT TUMOR MICRO-ENVIRONMENT: AN EVIDENCE FROM MICROBIOME SECRETOME STUDY</i>  <u>Siok-Fong Chin</u>, Putri Intan Hafizah Megat Mohd Azlan, Luqman Mazlan, Hui-min Neoh, Raja Affendi Raja Ali, Rahman Jamal</p> <p><b>OC14</b> <i>ENDOSCOPY AS PART OF INITIAL WORK-UP FOR ISOLATED UNINTENTIONAL WEIGHT LOSS: OESOPHAGOGASTRODUODENOSCOPY BUT NOT COLONOSCOPY SHOULD BE CONSIDERED</i>  Khairul Najmi Muhammad Nawawi, Raja Affendi Raja Ali</p> <p><b>OC15</b> <i>MORPHOMETRIC ANALYSIS OF 3D CT IMAGES OF SCAPULA FOR SEX DETERMINATION IN MALAYSIAN POPULATION</i>  Normaliza Omar, Siti Hanum Mohd Ali, Mohd Swarhib</p>
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	<i>RAT MODEL</i> Mohd Helmy Mokhtar, Nelli Giribabu, Naguib Salleh	Shafie, Nik Azuan Nik Ismail, Helmi Hadi, Rosnah Ismail , Faridah Mohd Nor
4.00-4.30 pm	Tea/coffee Poster viewing	
5.00 – 7.00 pm	RIVER CRUISE & DINNER	
Day 2   Sunday, 14 April 2019   Venue: Waterfront Hotel Kuching, Sarawak Venue: Tubau 1,2,3		
9.00 – 9.30am	<b>Plenary Talk 2:</b> <b>Prof Dr Owen Woodman</b> <b>Baker Heart &amp; Diabetes Institute, Melbourne</b> <i>Title: A New Pharmacological Approach To Preventing Myocardial Ischaemia/Reperfusion Injury</i> <i>Chairperson: Prof Dr Srijit Das</i>	
9.30 – 10.00 am	<b>Plenary talk 3:</b> <b>Prof Dr Abdur Rashid</b> <b>University of Dhaka (Bangladesh)</b> <i>Title: Flavones From Nicotiana Plumaginifolia Show Analgesic And Anxiolytic Activities In Mice Model</i> <i>Chairperson: Prof Madya Dr Isa Naina Mohamed</i>	
10.00 – 10.40am	Morning tea/coffee Poster viewing	
10.40 am	<b>SYMPOSIUM 3:</b> <b>Clinical Research</b> Chairperson: Dr Taty Anna Kamaruddin Venue: Tubau 1,2,3	<b>SYMPOSIUM 4:</b> <b>Cardiovascular Research</b> Chairperson: DR Fairus Ahmad Venue: Kerangas
10.40 – 11.00am	<b>Symposium speaker 3:</b>	<b>Symposium speaker 4:</b>

	<p><b>Professor Dr Faridah Mohd Nor</b>  <b>Universiti Kebangsaan Malaysia</b>  <b>(Malaysia)</b>  <i>Title: Ensuring justice in forensic investigation</i></p>	<p><b>Prof Dr Siti Balkis Budin</b>  <b>Universiti Kebangsaan</b>  <b>Malaysia (Malaysia)</b>  <i>Title: Polyphenol rich-extract of Roselle ameliorates cardiac dysfunction and structural alteration in diabetic rats.</i></p>
11.00-12.00pm	<p><b>Young Investigator</b>  <b>Presentation 2</b></p>	<p><b>Young Investigator</b>  <b>Presentation 3</b></p>
	<p><b>YIA07 FROM DISEASED TO QUIESCENCE: THE EFFECT OF RETINOIC ACID SUPPLEMENTATION ON KERATOCONIC FIBROBLASTS IN VITRO UNDER SERUM-FREE CONDITION</b>  <u>Fadhilah Zainal Abidin, Dimitrios Karamichos, Francisco Figueiredo, Che Connon</u></p> <p><b>YIA08 PHOTOPROTECTIVE EFFECTS OF PTEROSTILBENE SUPPLEMENTATION ON MELANOGENESIS ACTIVITY AND OXIDATIVE STRESS IN UVB IRRADIATED BALB/C MICE</b>  Tava Shelan Nagapan, Dayang Fredalina Basri, Ahmad Rohi Ghazali</p> <p><b>YIA09 ANTI-ATHEROSCLEROTIC PROPERTIES OF BERBERIS VULGARIS AQUEOUS EXTRACT IN CHOLESTEROL-FED RABBITS</b>  Nurul Huda Mohd Nor, Fauziah Othman, Sabariah Md Noor Eusni Rahayu Mohd Tohit</p>	<p><b>YIA12 GOAT MILK PREVENTS AGEING-INDUCED MEMORY DECLINE VIA ENHANCING BRAIN NEUROTROPHIC FACTORS</b>  <u>Afifa Safdar, Khairunnuur Fairuz Azman, Rahimah Zakaria, Che Badariah Ab Aziz and Usman Rashid</u></p> <p><b>YIA13 THE ANTIHYPERTENSIVE EFFICACY OF PIPER SARMENTOSUM AQUEOUS EXTRACT AS COMPARED TO PERINDOPRIL IN SPONTANEOUSLY HYPERTENSIVE RATS</b>  Fatimatuzzahra Hashim Fauzy, Maizura Mohd Zainudin, Hidayatul Radziah Ismawi, Taher El-Shami</p> <p><b>YIA14 CHANGES IN THE HEART METABOLIC PROFILE OF MYOCARDIAL INFARCTION RATS INDUCED WITH ISOPRENALINE BY PALM</b></p>

	<p><b>YIA10</b> <i>ANTIOXIDANT, ANTIMICROBIAL, ANTI-DIARRHEAL AND ANALGESIC ACTIVITIES OF DIOSPYROS MALABARICA (DESR.) KOSTEL.</i> Md. Moniruzzaman, <u>Mohammad Kaisarul Islam</u>, Mohammad A. Rashid</p> <p><b>YIA11</b> <i>A PRELIMINARY FORMULATION OF BIOMATERIAL BONE PASTE</i> Penny George, Zariyantey Abd Hamid, Md. Zuki Abu Bakar Zakaria, Enoch Kumar Perimal, B.Hemabarathy Bharatham</p>	<p><i>TOCOTRIENOL-RICH FRACTIONS</i> <u>Khairul Anwar Zarkasi</u>, Satirah Zainalabidin, Tan Jen-Kit, Nur Haleeda Hakimi, Nur Zuliani Ramli, Zakiah Jubri</p> <p><b>YIA15</b> <i>THE EFFECTS OF KELULUT HONEY ON BLOOD PRESSURE, FASTING LIPID PROFILE AND ADIPOCYTE HISTOMORPHOMETRY IN RATS WITH METABOLIC SYNDROME INDUCED WITH HIGH CARBOHYDRATE AND HIGH FAT DIET</i> Nur Zuliani Ramli, Kok-Yong Chin, Khairul Anwar Zarkasi, Fairus Ahmad</p> <p><b>YIA16</b> <i>CYCLOOXYGENAS E-2 INHIBITORY COMPOUNDS FROM THE LEAVES OF GLYCOSMIS PENTAPHYLLA (RETZ.) A. DC.: CHEMICAL AND IN SILICO STUDIES</i> Mahfuza Afroz Soma, Md. Ruhul Kuddus and Mohammad Abdur Rashid</p>
12.00 -2.00 pm	<b>LUNCH, PRAYERS &amp; POSTER JUDGING</b>	
2.00 pm	<b>SYMPOSIUM 5 :</b>	<b>SYMPOSIUM 6:</b>

	<p><b>Metabolic Diseases Chairperson:</b> Dr Teoh Seong Lin</p> <p>Venue: Tubau 1,2,3</p>	<p><b>Natural Products</b> Chairperson: Assoc Prof Dr Kamisah Yusof Venue: Kerangas</p>
2.00 -2.20 pm	<p><b>Symposium speaker 5:</b></p> <p><b>Dr Loh Huai Heng</b> <b>Universiti Malaysia Sarawak</b> <b>(Malaysia)</b></p> <p><i>Title: Obesity – a huge problem</i></p>	<p><b>Symposium speaker 6:</b></p> <p><b>Associate Professor Dr</b> <b>Lawrence Anchah</b> <b>Universiti Malaysia</b> <b>Sarawak</b> <b>(Malaysia)</b></p> <p>Title: The value of patients reported outcomes after acute coronary syndromes</p>
2.20 -3.00 pm	<p><b>Young Investigator Presentation 4</b></p>	<p><b>Young Investigator Presentation 5</b></p>
	<p><b>YIA17 THE RELATIONSHIP BETWEEN METABOLIC SYNDROME AND BONE HEALTH AMONG MALAYSIANS IN KLANG VALLEY</b> Kok-Yong Chin, Chin Yi Chan, Subramaniam Shaanthana, Fairus Ahmad, Nor Aini Jamil, Pei Yuan Ng, Norliza Muhammad, Ima-Nirwana Soelaiman, Norazlina Mohamed</p> <p><b>YIA18 PREDICTORS OF BONE HEALTH AMONG MIDDLE-AGED AND ELDERLY MALAYSIANS IN KLANG VALLEY</b> Chin Yi Chan, Norazlina Mohamed, Soelaiman Ima-</p>	<p><b>YIA21 POST PARTUM ENDOTHELIN-1 AND ANGIOGENIC FACTORS CAUSING PERSISTENT ENDOTHELIAL DYSFUNCTION IN MOTHERS WITH HYPERTENSIVE DISORDERS OF PREGNANCY</b> <u>Hidayatul Radziah Ismawi</u>, Maizura Mohd Zainudin, Nurjasmine Aida Jamani, Taher FT Elshami, Tariq Abdul Razak</p>



	<p>Nirwana and Kok-Yong Chin</p> <p><b>YIA19</b> <i>PREVALENCE AND CHARACTERISTIC OF YOUNG ADULTS WITH ACUTE MYOCARDIAL INFARCTION IN A SINGLE REFERRAL CENTRE IN PAHANG</i></p> <p><u>Mohd. Zhafri</u>, Samsul Draman, Aszrin Abdullah, Jamalludin A. Rahman, Norbaiyah M. Bakrim, Azarisman Shah M. Shah</p> <p><b>YIA20</b> <i>RELATIONSHIP BETWEEN PANORAMIC INDICES AND BMD OF MANDIBLE, HIP AND SPINE AMONG MALAY</i></p> <p>Noorshaida Kamaruddin, Zainul Ahmad Rajion, Mohd Ezane Aziz, Asilah Yusof</p>	<p><b>YIA22</b> <i>POLYPHARMACY AMONG ELDERLY IN NURSING HOMES</i></p> <p>Koo Kai Xuan, <u>Marhanis-Salihah Omar</u>, Adliah Mhd-Ali, Mohd Makmor-Bakry</p> <p><b>YIA23</b> <i>THE PERFORMANCE OF CALCANEAL QUANTITATIVE ULTRASOUND IN OSTEOPOROSIS PREDICTION AMONG MALAYSIANS AGED 40 YEARS AND ABOVE IN KLANG VALLEY</i></p> <p><u>Subramaniam, Shaanthana</u>, Soelaiman, Ima-Nirwana, Kok-Yong, Chin</p>
3.15-3.45 pm	<p>Awards for Oral and Poster Presentations, Valedictory Ceremony</p> <p style="text-align: right;"><i>Venue: Tubau 1,2,3</i></p>	
3.45-4.15 pm	Tea	

## KEYNOTE SPEAKER



**Prof. Emerita Tan Sri Dato' Sri Dr. Sharifah Hapsah Syed Hasan Shahabudin**  
**Professor Emerita of Medical Education and former Vice Chancellor of Universiti Kebangsaan Malaysia (Malaysia)**

Tan Sri Dato' Seri Prof. Emerita Dr. Sharifah Hapsah was the first female vice chancellor in Universiti Kebangsaan Malaysia and in Malaysia. She also served as Director of the Centre for Academic Development and head of the Medical Education Department. At the national level, she served as the chairperson and CEO of the State Accreditation Agency (LAN), overseeing the charter of the Malaysian Qualifications Agency (MQA). She was also the President of the National Council of Women's Organisations (NCWO) from 2014-2016. Internationally, she is the founder member of the Executive Board of the Association for Medical Education, WHO Western Pacific Region (AMEWPR) and member of the Executive Board of the Global Knowledge Partnership (GKP). She is member of the Global University Network for Innovation and Asia Pacific (Guni – AP) and the Working Group on the Revision of the 1983 Regional Convention on the Recognition of Studies, Diplomas and Degrees in Higher Education in Asia and the Pacific. She is also a steering committee member of the Talloires Network of Engaged Universities. Prof Sharifah Hapsah also been inducted as an Assistant Professor at Baylor Medical College, Texas Medical Centre, Houston, USA and an Honorary Associate of the University of New England. She has received numerous international and national recognitions, including the Fred Kartz Memorial Medal and the International Council for Distance Education (COL-ICDE) Award of Excellence.

## KEYNOTE LECTURE

### NURTURING HEALTH PROFESSIONALS IN EDUCATION AND RESEARCH

Over the years, we have witnessed innumerable changes in medical practice, mainly due to technological innovations and socio-economic trends, which have created, reshaped and eliminated processes and even jobs. Today, the speed of change is even more phenomenal, as automation, artificial intelligence, bioscience and ageing drive innovations in most aspects of medical practice and medical education. It is predicted that 85% of jobs learners will be doing in 2030, are not even invented yet. Further, the speed of medical discoveries is shortening the half-life of knowledge, rendering information in fast changing disciplines such as molecular biology obsolete very quickly. The internet has emerged as the major source of knowledge, and social networking is facilitating sharing and learning. It is no longer necessary for medical schools to produce “industry-ready” graduates on its own. It is also foolhardy for medical teachers to try to “impart all knowledge” to students through lectures. Rather, they should focus on what technology cannot do and prepare syndicated learning experiences, that open up minds and develop the intellect, creativity and collaborative ability of everyone - students, teachers, researchers and practitioners - that will make them more future aware and adaptable to changing medical practice. Implicit is the idea of promoting curiosity, lifelong passion and skills to seek and critically appraise information from different fields and sources, to reason and logically arrive at conclusions, and to conceive fresh ideas in making out-of-the-box decisions judiciously and ethically. In a networked multicultural world, where working effectively with and for others is imperative, medical schools must also focus more on emotions, empathy, listening, communicating and respect of diversity to nurture civic responsibility, discipline and time management, leadership and integrity for students to stand out and succeed with confidence, wherever they are.

## PLENARY SPEAKER



### **Professor Dr. Ima Nirwana Soelaima Universiti Kebangsaan Malaysia**

Prof. Dr. Ima Nirwana Soelaiman is a Professor of Pharmacology from the Faculty of Medicine, Universiti Kebangsaan Malaysia (UKM). Graduated with MBBS from University Malaya in 1985, she served the Ministry of Health for 3 years before joining UKM as a trainee lecturer in 1988. She was appointed lecturer in the Department of Pharmacology, Faculty of Medicine after having graduated with a PhD in 1994. She was promoted to Associate Professor in 1998 and Professor in 2003. Her research interests are in the areas of Natural Products, Bone Metabolism and Osteoporosis. Her research team has developed many animal models of osteoporosis, osteoarthritis, and metabolic syndrome. Her research includes in vivo efficacy and safety studies, in vitro mechanistic studies as well as clinical epidemiology studies on bone health. She has published 199 articles in high-impact journals and has a H-index of 24 (Scopus), 30 (Google Scholar); and cumulative citation of 2,007 by Scopus and 2,931 (Google Scholar). She has won 13 medals locally and internationally in research, including Gold Medals in the 34th International Exhibition of Inventions, New Techniques and Products, Geneva, Switzerland, 2006; Invention and New Product Exposition (INPEX2008), Pittsburgh, Pennsylvania, USA, 2008; and The Belgian and International Trade Fair for Technological Innovation, Brussels, 2013. She was also UKM's Researcher of the Year in 2006, 2008, 2015 and UKM Scholar of the Year for 2017. Prof. Ima was featured by Elsevier as one of "10 Women in Science for International Women's Day 2015" in the journal "Life Science". Prof. Ima was the Deputy Dean (Research and Innovation) and Chair, Research Committee, Faculty of Medicine UKM from 2012-2017. She was formerly the Head of Department of Pharmacology, Faculty of Medicine UKM, and Founding Head of the Bone Metabolism Research Group UKM. She has served in Research Evaluation Panels for UKM and the Ministry of Agriculture and the Ministry of Health.

## **ABSTRACT : PLENARY LECTURE**

### **IN VITRO STUDIES ON THE EFFECTS OF TOCOTRIENOL ON BONE CELLS**

**Ima-Nirwana S<sup>a</sup>, Chua KH<sup>b</sup>, Ekram A<sup>c</sup>, Chin KY<sup>a</sup>, Wan Nuraini WH<sup>a</sup>, James JJ<sup>a</sup>, Nur Farhana MF<sup>a</sup>, Wong SK<sup>a</sup> and Norzana AG<sup>d</sup>.**

Depts. of Pharmacology<sup>a</sup>, Physiology<sup>b</sup>, Biochemistry<sup>c</sup> and Anatomy<sup>d</sup>, Faculty of Medicine, Universiti Kebangsaan Malaysia, Kuala Lumpur, Malaysia.

**Introduction:** Osteoporosis is a degenerative bone disease with low bone mass and deterioration of microarchitecture, leading to bone fragility. Tocotrienol was reported for its osteoprotective properties in various osteoporotic animal models.

**Aims:** This study aimed to investigate the osteogenic effects of annatto-derived tocotrienol (AnTT) using pre-osteoblastic cells, and to determine the effects of individual vitamin E isomers on bone cells using an in vitro skeletal microenvironment system.

**Methods:** In the first part of the study, murine MC3T3-E1 pre-osteoblastic cells were cultured with various doses of AnTT. The expression of osteoblastic differentiation-related markers and formation of collagen and mineralized nodules were measured. In the second part, a static three-dimensional human osteoblast-osteoclast co-culture system was established on bovine bone scaffold and treated with individual vitamin E isomers, which were determined by analysing bone microarchitecture and strength of the scaffolds. The scaffolds were subjected to scanning electron microscopy, bone histomorphometry, dual-energy X-ray absorptiometry and biomechanical strength test.

**Results:** The AnTT-treated pre-osteoblastic cells showed significantly higher levels of osterix, COL1 $\alpha$ 1, ALP and osteocalcin compared to the vehicle group ( $P < 0.05$ ). The  $\gamma$ - and  $\delta$ -tocotrienol-treated co-cultures on bone scaffold showed better cell attachment and proliferation, improvement in bone microstructure, histomorphometric indices, mineral density/content and compressive strength relative to other vitamin E isomers ( $P < 0.05$ ).

**Conclusion:** The study confirmed the osteogenic effects of AnTT on pre-osteoblastic cells and the  $\gamma$ - and  $\delta$ -tocotrienol were found to be the most effective isomers in improving bone quality. In brief, tocotrienol may be considered as a potential therapeutic agent for osteoporosis.

## PLENARY SPEAKER



**Prof Dr Owen Woodman  
Baker Heart & Diabetes Institute,  
Melbourne**

Prof Dr. Owen Woodman has a BSc (Hons) (1974) and PhD (1981) from the University of Melbourne. He has more than 30 years' experience in research into the function of the cardiovascular system and the adverse effects of disease, working at institutions including Harvard University and the University of Melbourne (Departments of Pharmacology, Physiology and Medicine [Austin Hospital]) before joining RMIT University in 2007 where he was Professor of Cell Biology and Head of the Discipline of Cell Biology and Anatomy in the School of Health & Biomedical Sciences until March 2018. He is now an Honorary Professorial Fellow in the Heart Failure Pharmacology group at the Baker Heart & Diabetes Institute. He has a particular interest in the development of new drugs for the treatment of acute myocardial infarction and vascular disease, including diabetes-induced vascular pathologies and has published 135 papers on cardiovascular physiology and pharmacology. He is one of the inventors on several patents relating to synthetic flavonols for the treatment of cardiovascular disease. His work in conjunction with colleagues from the Howard Florey Institute and the School of Chemistry, University of Melbourne has formed the basis of work towards the commercial development of cardioprotective drugs by the biotechnology company Armaron Bio Pty Ltd ([armaronbio.com](http://armaronbio.com)) for which he is the Chief Scientific Officer.

## ABSTRACT : PLENARY LECTURE

### A NEW PHARMACOLOGICAL APPROACH TO PREVENTING MYOCARDIAL ISCHAEMIA/REPERFUSION INJURY

Owen L Woodman

Baker Heart & Diabetes Institute, Melbourne, Australia.

In the treatment of acute myocardial infarction, early reperfusion of the blocked coronary artery is critical to restore the blood flow to the ischaemic myocardium to prevent further tissue injury, and to improve clinical outcome. This reperfusion strategy after a period of ischaemia, however, may elicit further myocardial damage referred to as myocardial reperfusion injury. The manifestations of reperfusion injury include arrhythmias, myocardial stunning and microvascular dysfunction, in addition to significant cardiomyocyte death. It is suggested that an overproduction of reactive oxygen species, intracellular calcium overload and inflammatory cell infiltration are the most important contributing factors in myocardial ischaemia-reperfusion injury. Limiting reperfusion injury is considered an attractive target to improve outcomes after myocardial infarction, but thus far, there are no clinically effective treatments. We have investigated the ability of 3',4'-dihydroxyflavonol (DiOHF), and a synthetic, water soluble analogue of DiOHF (NP202), to reduce infarct size after myocardial ischaemia and reperfusion. Our studies have demonstrated that DiOHF is a potent inhibitor of  $Ca^{2+}$ /calmodulin-dependent kinase II (CaMKII) *in vitro*, and that it can reduce stress-induced phosphorylation of CaMKII and the downstream signaling kinases i.e. mitogen activated protein kinase (p38MAPK) and N-terminal kinase (JNK). In anaesthetized sheep, DiOHF and NP202 reduced myocardial infarct size after up to three hours of ischaemia and three hours of reperfusion. This was accompanied by a decrease in apoptosis of cardiomyocytes, in both previously ischaemic and normally perfused myocardium, and reduced infiltration of neutrophils to the previously ischaemic region of the myocardium. Flavonol treatment reduces phosphorylation of p38MAPK and JNK in the myocardium, but does not prevent the activation of ERK or Akt, kinases, that are important in cardioprotective signaling pathways. The capacity of DiOHF and its water soluble analogue NP202, to reduce myocardial ischaemia and reperfusion injury *in vivo* suggests, that they have the potential to be used as an adjunct therapy in patients suffering acute myocardial infarction when accompanied by interventions to restore coronary blood flow

## PLENARY SPEAKER



**Prof Dr Abdur Rashid**  
**University of Dhaka (Bangladesh)**

Prof Dr Abdur Rashid obtained his PhD at University of Strathclyde Glasgow, U.K. He was the former dean of Faculty of Pharmacy and former chairman of Department of Pharmaceutical Chemistry, University of Dhaka. He specializes in natural product chemistry. His research interest includes isolation and characterization of bio-active compounds from medicinal plants, microbes and marine animals; application of modern NMR techniques to structural elucidation of organic molecules, with special emphasis to marine peptides and macrolides; and synthesis of chemically unique and biologically interesting compounds and evaluation of their pharmacological activities. He currently serves as the Fellow of the Bangladesh Academy of Sciences. He has published 384 journal articles and serves as editor for various journals, including Journal of Natural Products.



## ABSTRACT: PLENARY LECTURE

### FLAVONES FROM NICOTIANA PLUMBAGINIFOLIA SHOW ANALGESIC AND ANXIOLYTIC ACTIVITIES IN MICE MODEL

*Md. Shafiullah Shajib and Mohammad A. Rashid*

Department of Pharmaceutical Chemistry, Faculty of Pharmacy,  
University of Dhaka, Dhaka-1000, Bangladesh

**Objectives:** *Nicotiana plumbaginifolia* Viv. is an annual herb which belongs to the Solanaceae family and found in the weedy lands of Bangladesh. The herb is used for the treatment of toothache, cuts, and wounds in ethnomedicine. The present study was aimed to isolate the bioactive compounds from the methanol extract of *N. plumbaginifolia* (MENP).

**Methods:** The separation of compounds from MENP was performed by column chromatography followed by preparative thin layer chromatography (PTLC) over silica gel. The structures of the isolated compounds were elucidated by extensive analysis of their high-resolution  $^1\text{H}$ -,  $^{13}\text{C}$ -NMR, DEPT, HSQC, HMBC, and HR-MS data as well as comparison with previously reported values, where applicable. The analgesic activity of the purified compounds was determined by thermal (hot plate and tail immersion tests) and chemical (acetic acid and formalin-induced writhing tests) methods, whereas the anxiolytic activity was assessed by the elevated plus-maze test in mice model

**Results:** Five polyoxygenated flavonoids were isolated and their structures were established as 3,3',5,6,7,8-hexamethoxy-4',5'-methylenedioxyflavone (**1**), 3,3',4',5',5,6,-7,8-octamethoxyflavone (Exoticin, **2**), 6,7,4',5'-dimethylenedioxy-3,5,3'-trimethoxy-flavone (**3**), 3,3',4',5',5,8-hexamethoxy-6,7-methylenedioxyflavone (**4**) and 5-hydroxy-3,3',6,7,8-pentamethoxy-4',5'-methylenedioxyflavone (**5**). Among these, exoticin is relatively rare to be found in nature. This is the first report of their isolation from *N. plumbaginifolia*. Oral administration of compounds **1**, **3** and **4** (12.5-25 mg/kg b.w.) demonstrated significant ( $p < 0.01$ ) and dose-dependent analgesic activity in both chemical and thermally-induced pain models in mice. On the other hand, flavones **1-4** (12.5 mg/kg b.w.) also exhibited significant anxiolytic activity in elevated plus-maze test.

**Conclusion:** The present study revealed that *N. plumbaginifolia* possesses bioactive flavonoids which could be considered as suitable candidates for the development of anxiolytic and analgesic agents

## ABSTRACT: SYMPOSIUM



**Prof Dr Siti Balkis Budin**  
Universiti Kebangsaan Malaysia (Malaysia)

### **POLYPHENOL RICH-EXTRACT OF ROSELLE AMELIORATES CARDIAC DYSFUNCTION AND STRUCTURAL ALTERATION IN DIABETIC RATS.**

**Aims/Objective:** Roselle or *Hibiscus sabdariffa* Linn is known to inhibit oxidative stress, however, the effects of *H. sabdariffa* Linn polyphenol-rich extract (HPE) on ameliorating cardiac dysfunction and structural alteration are still undefined. Therefore, this study aimed to determine the protective effects of HPE in ameliorating cardiac dysfunction and structural alteration in diabetic rats.

**Methods:** An experimental diabetic rat model was induced by streptozotocin (STZ). HPE was orally administrated at a dose of 100 mg/kg/day. The supplementation was started after three days of diabetes induction and continuously for eight weeks duration. At the end of study period the hearts were excised for cardiac performance, biochemical and histological studies.

**Results:** We demonstrated that HPE supplementation improved hyperglycemia, dyslipidemia and significantly prevented diabetes-induced high blood pressure. HPE also attenuated cardiac oxidative damage in diabetes, indicated by low malondialdehyde and advanced oxidation protein product. As for the antioxidant status, HPE significantly increased reduced glutathione level, as well as catalase and superoxide dismutase activities. These findings correlate with cardiac function, whereby HPE improved left ventricular developed pressure, coronary flow, left ventricle contractility and relaxation rate significantly. Histological analysis showed a marked decrease in cardiomyocyte hypertrophy and fibrosis. Immunohistochemistry stains for cleaved caspase-3 showed a marked increase in cardiomyocyte apoptosis in diabetes and notably down-regulated by HPE supplementation. Furthermore, HPE treatment also markedly decreased protein expression of cytochrome C, a marker for apoptosis. Interestingly, ultrastructural changes and impairment of mitochondria induced by diabetes were minimized by HPE.

**Conclusions:** Taken together, it is suggested that HPE was effective in attenuating cardiac functional and structural abnormalities in diabetic rats. Hence, these findings may be useful as an adjuvant therapy for the prevention of diabetic cardiomyopathy.

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**ABSTRACT:  
SYMPOSIUM**



**Professor Datuk Dr. Harlina Halizah Haji  
Siraj  
Universiti Kebangsaan Malaysia  
(Malaysia)**

**TEACHING AND ASSESSING  
CLINICAL REASONING: ARE WE  
DOING IT RIGHT?**

Clinical reasoning is a core component of medical doctors' diagnostic competency. Nuland (1994) described clinical reasoning as 'Every doctor's measures of his/her abilities, the most important ingredient in his/her professional self-image'. Clinical reasoning has been defined by Hawkins et. al (2010), as "*thinking through different aspects of patient care to reach to a reasonable decision related to prevention, diagnosis and treatment of a clinical problem in a specific patient*". The staggering data on medical errors still occurring within healthcare delivery today, demands educators to reflect on how effectively they have been teaching, and assessing clinical reasoning amongst their clinical students. Is it adequate to simply provide medical facts and clinical information, demonstrate on how to perform clinical examinations, and select relevant laboratory or imaging studies to the learners? Or are we missing something more fundamental and essential in building up clinical reasoning skills to our young future doctors and other health professionals? This presentation will explore those questions, and hopefully able to convince the teachers to strive harder to unlearn, relearn and learn new thing.

## **ABSTRACT: SYMPOSIUM**



**Professor Dr Faridah Mohd Nor  
Universiti Kebangsaan Malaysia  
(Malaysia)**

### **ENSURING JUSTICE IN FORENSIC INVESTIGATION**

Any criminal investigation hinges on the ability of the pathologist to properly identify wounds and their effects on a human body. Nevertheless, it can be difficult for a pathologist to recognize the potential value in the infliction of wound and its extraordinary pattern, that has never been seen before such as wound inflicted by a special weapon or a rare tool. Post-mortem examination of a case will give clues to the pathologist on the cause of death, and the weapon used for committing the crime. Once evidence has been identified, it certainly needs to be documented and photographed for further examination and analysis. Swabs and samples need to be taken from the body to obtain baseline information about what compounds, DNA and trace elements are ubiquitous for the case. Any weapon found at the scene such as a blood-stained knife, pieces of bullets or casing should be subjected to proper packaging and labelling to prevent cross-contamination. If the scene of a crime is at a workplace, or a home that has frequent visitors, it is important to take samples from the place, and interview suspects around the area to obtain more information on a case. This allows the pathologist to be clearly sorted and informed of the case, and focus on who might have been present at the time of the crime.

## **ABSTRACT: SYMPOSIUM**



**Associate Professor Dr Lawrence  
Anchah  
Universiti Malaysia Sarawak  
(Malaysia)**

### **THE VALUE OF PATIENTS REPORTED OUTCOMES AFTER ACUTE CORONARY SYNDROMES**

Measuring patient outcomes such as health-related quality-of-life in clinical practice provides the opportunity to improve patients' monitoring and management. Well-validated instruments have shown substantial information in development and evaluation of health care service delivery. Patient-reported measures include preferences and reports about care received, utility weights of health status, health behaviours, and outcomes of care, placing patients at the centre of health care research and economic evaluation in health care. It is also providing a fundamental quality improvement platform in embarking pharmacoeconomic research works and health economic. Despite such general acceptance of the idea, there is much to be learned about how to use the information of utility measurements in quality of life to improve our clinical practices. With the current concerned in aggressive changes in some drug prices leading to further regulation of pricing in the industry, increase in the consumption of prescription drugs, and rising popularity of generic drugs, hence, the evaluation in health economics become more crucial. This paper provides an overview the important of patients' involvement in clinical research and service evaluation. We describe and discuss explicitly, utility weights of health status or commonly known as patient-reported outcomes (PROs) in cardiovascular research. In general, PROs provide reports from patients about their own health, quality of life, or functional status associated with the health care or treatment they have received.

## ABSTRACT: SYMPOSIUM



**Assoc Prof Dr Loh Huai Heng**  
**Universiti Malaysia Sarawak (Malaysia)**

### **OBESITY – A HUGE PROBLEM**

Obesity is a condition of excessive fat accumulation in the body with adverse effects on health. It is a risk factor for numerous diseases. In Malaysia, the obesity rate is increasing over the past decade across ethnicity, age group and gender. There are a few ways of diagnosing obesity, but the most commonly used ones are body mass index (weight in kilograms divided by the square of height in meter) and waist circumference. Asians have a higher percentage of body fat than white people of the same age, sex and BMI. Additionally, the proportion of the Asian population with risk factors for type 2 diabetes and cardiovascular disease is significant, even below the recommended WHO BMI cut-off of 25kg/m<sup>2</sup> for obesity in the Caucasians. Thus, WHO has recommended a lower BMI cut-off of 23kg/m<sup>2</sup> for Asians as “increased risk”. Waist circumference of > 85cm in males and > 80cm in females, is associated with increased risk as well. Obesity is caused by an interplay between genetic factor and environmental factors such as behavior, sedentary lifestyle, as well as endocrine diseases and iatrogenic causes. Mortality risk increases exponentially with increased BMI by increasing risk for cardiovascular diseases, cancer and respiratory diseases. Pharmacotherapy for obesity is only used as a temporary measure, and is associated with side effects. Bariatric surgery leads to a very significant weight loss with improvement in metabolic parameters. However, it is reserved for patients with class III obesity or class II obesity with > 2 risk factors, as it may be associated with vitamin and micronutrient deficiencies post-operatively with risk of weight regain. Lifestyle changes remain the mainstay of management of obesity. Diet modification is more effective compared to physical activity alone. A reduction of 500 kcal per day of dietary intake will reduce weight by 500 gm per week. To complement that, patients should engage in moderate intensity activities of 150 minutes per week, thereafter increasing to 200-300 minutes per week.

## ABSTRACT: SYMPOSIUM



**Dr Chua Chee Wai**  
**Shanghai Jiao Tong University (China)**

### **INTRINSIC ANDROGEN RECEPTOR INDEPENDENCE IN PROSTATE EPITHELIAL CELLS**

The second-generation androgen deprivation therapies (ADT), namely enzalutamide and abiraterone, have demonstrated clinical efficacy and improved survival in patients with castration-resistant prostate cancer (CRPC). Unluckily, most CRPC patients will experience either primary or secondary ADT resistance, leading to androgen receptor (AR)-independent prostate cancer. Notably, AR-independent prostate cancer may exhibit neuroendocrine differentiation (NED) feature, but most of the tumors exhibit an uncharacterized phenotype. It remains unclear the molecular mechanisms during the transition from CRPC to AR-independent disease and whether a particular cell-of-origin for prostate cancer is involved in this process. Previously, we have demonstrated that the prostate luminal progenitors, castration-resistant Nkx3.1-expressing cells (CARNs) are AR-independent and are capable to initiate tumors with NED feature. Interestingly, gene signature of non-transformed AR-deleted CARNs shows enrichment with human CRPC and neuroendocrine prostate cancer signatures, highlighting the importance of intrinsic progenitor properties in CRPC and AR-independent prostate cancer. We hypothesize that intrinsic AR independence in different prostate epithelial progenitors contributes to the progression and maintenance of AR-independent prostate cancer. Understanding the molecular characteristics of intrinsic AR independence should yield timely therapeutic strategies for the patients. In this presentation, I will talk about the use of a newly established genetically engineered mouse model to identify novel AR-independent prostate epithelial progenitors. In addition, I will present examples how we could translate our understanding on the molecular characteristic of these populations into clinical practice.

## LIST OF PRESENTATION

All abstracts will be published in the special issue of Research Update in Medical Sciences (RUMeS) : [www.rumesjournal.com](http://www.rumesjournal.com)

<b>Oral Communication</b>	
<p><b>SYNERGISTIC ANTIBACTERIAL EFFECT OF LEAF, ROOT, AND STEM BARK EXTRACTS OF ACACIA NILOTICA AND PSIDIUM GUAJAVA ON EXTENDED SPECTRUM BETA LACTAMASE (ESBL) PRODUCING ESCHERICHIA COLI AND KLEBSIELLA PNEUMONIA</b></p> <p>Salawudeen A, Agbo E.B, Tahir F, Suleiman M.A, Adamu M.T</p>	OC1
<p><b>FLAVONES FROM <i>NICOTIANA PLUMBAGINIFOLIA</i> SHOWING ANALGESIC AND ANXIOLYTIC ACTIVITIES IN MICE MODEL</b></p> <p>Md. Shafiullah Shajib, <u>Mohammad A. Rashid</u></p>	OC2
<p><b>PALMITIC RICH INTERESTERIFIED FATS ELEVATED PLASMA HDL, LARGE HDL SUB-FRACTIONS AND REGULATION OF HEPATIC GENES BY ENHANCING CHOLESTEROL CLEARANCE PATHWAY VIA REVERSE CHOLESTEROL TRANSPORT (RCT) IN A HAMSTER MODEL</b></p> <p><u>Gowri Nagapan</u>, Goh Yong Meng, Che Anisahs Che Idris, Noor Lida Mat Dian, Kanga Rani Selvaduray and Nagendran Balasundram</p>	OC3
<p><b>THE EVALUATION OF LIVER OXIDATIVE STRESS PARAMETERS IN METABOLIC SYNDROME RATS TREATED WITH TOCOTRIENOL</b></p> <p><u>Wong Sok Kuan</u>, Chin Kok-Yong, Ima-Nirwana Soelaiman</p>	OC4



<p><b>THE EFFECTS OF OIL PALM PHENOLICS (OPP) ON LIPID METABOLISM BIO-MARKERS OF HYPERLIPIDAEMIC GOLDEN SYRIAN HAMSTER</b></p> <p>SB Syarifah-Noratiqah, Syed Fairus, HMS Qodriyah, Isa Naina-Mohamed</p>	OC5
<p><b>RESVERATROL PREVENTS NICOTINE-INDUCED HYPERTENSION AND CARDIAC DYSFUNCTION IN RATS</b></p> <p><u>Anand Ramalingam</u>, Norsyahida Mohd. Fauzi, Siti Balkis Budin, Rebecca H. Ritchie, Satirah Zainalabidin</p>	OC6
<p><b>TESTOSTERONE REDUCES EXPRESSION OF MECA-79 AND NUMBER OF EMBRYO IMPLANTATION SITE IN EARLY PREGNANCY RAT MODEL</b></p> <p>Mohd Helmy Mokhtar, Nelli Giribabu, Naguib Salleh</p>	OC7
<p><b>SEXUAL DIMORPHISM OF THE SUBPUBIC ANGLE: A PRELIMINARY STUDY USING COMPUTED TOMOGRAPHY (CT) SCAN IN MALAYSIANS</b></p> <p><u>Siti Hanum Mohd Ali</u>, Normaliza Omar, Mohamed Swarhib Shafie, Nik Azuan Nik Ismail, Helmi Hadi, Faridah Mohd Nor</p>	OC8
<p><b>PAST, PRESENT AND FUTURE STATUS OF HIV/AIDS GLOBAL PANDEMIC</b></p> <p>Narendra Kumar Chopra, Ma Han Ni</p>	OC9
<p><b>AGE ESTIMATION FROM DENTAL IMAGING ON PREMOLARS IN ADULTS</b></p> <p>Donni S, Haslinda R, Phrabhakaran N, Aspalilah A</p>	OC10
<p><b>POST-MORTEM CHANGES OF <i>SUS SCROFA DOMESTICA</i> IN EQUATORIAL CLIMATE IN SARAWAK, MALAYSIA</b></p> <p>Ting Kwong Ing, Normaizatul Afizah Ismail, Faridah Mohd Nor, Ab Halim Mansar</p>	OC11

<p><b>MICROARRAY ANALYSIS OF THE MOLECULAR MECHANISM INVOLVED IN EOPD AND LOPD PATIENTS IN MALAYSIA</b></p> <p><u>Nor Ilham Ainaa Muhsin</u>, Wan Fahmi Wan Mohamad Nazarie, Ahmad Rasyadan Arshad, Muhiddin Ishak, Zamzureena Mohd Rani, Fairuz Fatin Zolkafali, Ambrose Louise, Siti Aishah Sulaiman, A Rahman A Jamal, Nor Azian Abdul Murad</p>	OC12
<p><b>PERTURBATION OF HOST-MICROBES INTERACTION IN GUT TUMOR MICRO-ENVIRONMENT: AN EVIDENCE FROM MICROBIOME SECRETOME STUDY</b></p> <p><u>Siok-Fong Chin</u>, Putri Intan Hafizah Megat Mohd Azlan, Luqman Mazlan, Hui-min Neoh, Raja Affendi Raja Ali, Rahman Jamal</p>	OC13
<p><b>ENDOSCOPY AS PART OF INITIAL WORK-UP FOR ISOLATED UNINTENTIONAL WEIGHT LOSS: OESOPHAGOGASTRODUODENOSCOPY BUT NOT COLONOSCOPY SHOULD BE CONSIDERED</b></p> <p>Khairul Najmi Muhammad Nawawi, Raja Affendi Raja Ali</p>	OC14
<p><b>MORPHOMETRIC ANALYSIS OF 3D CT IMAGES OF SCAPULA FOR SEX DETERMINATION IN MALAYSIAN POPULATION</b></p> <p>Normaliza Omar</p>	OC15

#### YOUNG INVESTIGATOR PRESENTATION

<p><b>REGRESSION OF INVASIVE DUCTAL CARCINOMA TREATED WITH SIROLIMUS AND SUNITINIB IN NMU-INDUCED ANIMAL CANCER MODEL</b></p> <p>Nurul Fathiyatul Nabila Jaffar, Muhammad Shahidan Muhammad Sakri, Tengku Ahmad Damitri Al-Astani b Engku Daud@Tengku Din, Hasnan Jaafar</p>	YIA01
<p><b>MESENCHYMAL STEM CELLS-DERIVED NEURAL PROGENITOR STEM CELLS TREATED IMPROVES</b></p>	YIA02

<p><b>FUNCTIONAL RECOVERY IN RAT SPINAL CORD INJURY</b> Putri Nur Hidayah Al-Zikri, Fauziah Mohamad Idris, Jafri Malin Abdullah, Hasnan Jaafar</p>	
<p><b>DYSREGULATION OF EMT MARKERS DRIVEN BY EPIGENETIC REGULATOR SETD1A IN TRIPLE NEGATIVE BREAST CANCER CELL LINES</b> Ezanee Azlina Mohamad Hanif, Paul B Mullan</p>	YIA03
<p><b>OPTIMISATION OF A PC 12 CELL-BASED <i>IN VITRO</i> STROKE MODEL FOR SCREENING POTENTIAL NEUROPROTECTIVE AGENTS</b> Pin Fen Chua, William K. Lim</p>	YIA04
<p><b>TRPC3-NOX2 COMPLEX ACTIVATION UNDERLIES ADENOSINE TRIPHOSPHATE (ATP)-INDUCED CARDIOMYOCYTE ATROPHY</b> <u>Suhaini Sudi</u>, Motohiro Nishida, Caroline Sunggip</p>	YIA05
<p><b>TREATMENT WITH TRF MODULATES OXIDATIVE STRESS-INDUCED OSTEOCLAST DIFFERENTIATION AND ITS ACTIVITY <i>IN VITRO</i></b> Nur Fathiah Mohd Radzi, Zakiah Jubri, Suzana Makpol, Ima Nirwana Soelaiman and <u>Ekram Alias</u></p>	YIA06
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