PROCEEDINGS

MYBIOMED SYMPOSIUM 2023

"Navigating the Biomedical Science Landscape in Tackling Health Crises"

Organised by:

The Malaysian Biomedical Science Association & Taylor's University

9th August 2023
0830-1700
Taylor's University Lakeside Campus

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Welcome message

by MyBiomed President,

Assalamualaikum, salam sejahtera and a very good day to all,

Alhamdulillah, all praises be to Allah, the Merciful, the All Beneficent, whose Grace and Blessings have enabled us to organise MyBiomed Symposium 2023. I would like to extend the warmest welcome to all invited speakers and participants to this event.

The Malaysian Biomedical Science Association (MyBiomed) was established and registered in September 2016. MyBiomed Symposium 2023 serves as a valuable initiative to foster stronger relationships among MyBiomed members, researchers, and students and expand professional networks within the field of Biomedical Science. Given the significance of impactful and high-quality research in biomedical science, this symposium acts as a platform for sharing the most recent information, findings, and advancements in Biomedical Science research. Under the theme of '*Navigating the Biomedical Science Landscape in Tackling Health Crises,*' distinguished speakers and presenters will contribute their expertise in navigating the biomedical science landscape in tackling health crises. Their contributions will enable us to exchange ideas on future research directions and stay current with the latest discoveries in this field.

We are thrilled to present this symposium, which is the outcome of the partnership between MyBiomed and Taylor's University. I believe the collaboration between MyBiomed and Taylor's University will benefit all participants. I look forward to seeing MyBiomed contribute to enhancing research quality in Malaysia. Finally, I extend my heartfelt gratitude to all the dedicated committee members for their unwavering commitment and diligent efforts for the success of the MyBiomed Symposium 2023.

Thank you.

Prof. Dr Siti Balkis Budin
President
Malaysian Biomedical Science Association (MyBiomed)

Welcome message

by Emeritus Professor Dr Paraidathathu Thomas A/L P.G. Thomas,

I thank the organizing committee for inviting me to write a foreword for the program book of the MyBiomed Symposium 2023.

The inaugural MyBiomed Symposium 2023 held in conjunction with the Annual General Meeting of the Malaysian Biomedical Association (MyBiomed) and I am proud that Taylor's University has been selected as the venue and that the staff of the School of Biosciences are taking an active role in the organisation of this event.

The theme of the symposium '*Navigating the Biomedical Science Landscape in Tackling Health Crises*' is current and appropriate in the light of the various health and healthcare challenges that the world is facing today – new viruses, reemergence of old diseases, shortage of diagnostic tools and therapeutics agents, contamination of medicines with very harmful substances, emergence of zoonotic diseases etc. I am sure the various speakers and other communication during the symposium will help us better understand and consequently develop tools to address these challenges.

The organizing committee has carefully selected the appropriate keynote speaker and plenary speakers from across the globe – YBhg Professor Emeritus Tan Sri Dato Dr Mohamed Salleh Mohamed Yasin, Prof Dr Chua Chee Wai and Professor Dr Charles Anthony Rhodes respectively, who are pioneers and leaders of the biomedical science arena in Malaysia and experts in their field. They and the other invited speakers will be able to provide both historical perspectives and current developments and approaches to the challenges for the biomedical science profession.

I congratulate the organizing committee for putting together a very interesting program with something for everybody, including students. I wish all participants a fruitful time of learning, exchanges of ideas and discussion and opportunities for collaboration.

Thank you.

Emeritus Professor Dr Paraidathathu Thomas A/L P.G. Thomas
Executive Dean
Faculty of Health & Medical Sciences
Taylor's University

Chairperson

MyBiomed Symposium 2023

Assalamu'alaikum warahmatullahi wabarakatuh and warm greetings!

Welcome all to our very first national Biomedical Science Symposium. This is a very exciting occasion for us. It's been more than 30 years of Biomedical Science in Malaysia!

The Malaysian Biomedical Science Association (MyBiomed) and Taylor's University are jointly organising this inaugural MyBiomed Symposium, with our theme centred on "Navigating the Biomedical Science Landscape in Tackling Health Crises". Being in the biomedical sciences means having a foot in various fields of study. For students, variety provides for thrilling explorations of diverse knowledge. For alumni, many of us have chosen to focus on a service or research field or enterprise. At heart, we are all Biomedical Scientists. Our scientific diversity is our strength as we continue to face new and on-going health challenges.

Befitting our theme, the inaugural MyBiomed Symposium is featuring speakers who will talk about our place and our roles in the Health Science landscape. For our Keynote Speaker, we are incredibly honoured to have the esteemed Professor Emeritus Tan Sri Dr. Mohamed Salleh bin Mohamed Yasin, Chairman of Spectrum Education Group. Tan Sri Dr. Mohamed Salleh was a pioneer for Biomedical Science in Malaysia and was the Founding Dean of the first Faculty of Allied Health Sciences in Malaysia. For our plenary speakers, we are thrilled to have Professor Chua Chee Wai, our homegrown Biomedical Science scholar who is now Principal Investigator and Professor at the Renji-Med X Clinical Research Stem Cell Center in Shanghai, China, where he is advancing stem cell and organoid-related research; and Professor Dr. Charles Anthony Rhodes, Institute of Biomedical Science (IBSM) Fellow and Editor of the British Journal of Biomedical Science (BJBS). Professor Tony Rhodes, as he is warmly known, was formerly a Professor at the School of Health Sciences, International Medical University (IMU) and prior to that, a Professor in the Department of Pathology, Faculty of Medicine, Universiti Malaya.

MyBiomed Symposium is also the stage to present research efforts and output from our postgraduates and undergraduates. And for our Biomed undergrads who are thinking about where their lives' journeys will take them, the Career Development Forum is showcasing alumni who are building their careers and furthering their studies. Moreover, this symposium is the platform for all of us to gather in-person to discuss the impact of the Allied Health Profession Act (Act 774) on our respective professions and careers.

Our MyBiomed Symposium committee thanks you all for joining us for this occasion. We hope this will be a day for reunions and for kindling new friendships and collaborations, and the start of many more MyBiomed events to come!

Dr. Suzita Mohd Noor
Chairperson MyBiomed Symposium 2023

Getting to know MyBiomed

The Malaysian Biomedical Science Association (MyBiomed) is a professional organisation for Malaysian graduates of Biomedical Science and adjacent degrees programmes, and all other professionals affiliated with the Biomedical Sciences. The idea for the formation of MyBiomed was mooted upon the gazettement of the Allied Health Professions Act 774 in February 2016. Under this act, Biomedical Science graduates can be recruited as licenced Medical Laboratory Scientists. However, there is more to Biomedical Science than being allied health practitioners.

MyBiomed was thus established with the Vision to:

- Provide training, activities, and programs in the related fields,
- Build awareness about research, industry development, and current issues related to Biomedical Science,
- Build awareness on the Allied Health Professions Act 774 among members and provide necessary support in the implementation of the Act,
- Strengthen relationships between Biomedical Science professionals and establish professional networks for research and related biomedical science industries.

With this Vision in mind, MyBiomed was launched in conjunction with the 3rd Pan-Asian Biomedical Science Conference on the 7th of December 2016, at Hotel Premiera Kuala Lumpur, amongst a gathering of Biomedical Scientists, Researchers, Academics and Industry Professionals.

Membership to MyBiomed is open to all graduates of Biomedical Science degree and related programmes, as well as all associated academics and professionals. MyBiomed aspires to provide support and resources for its members, alongside a focus on the development of medical technology and its applications in Malaysian healthcare. MyBiomed now has over 80 members consisting of academics and professionals from across Malaysia, all dedicated to advancing the fields of Biomedical Science in Malaysia and the region.

MyBiomed facilitates positive collaborations with ministries and departments within the Malaysian government and fosters strong relationships with non-governmental societies and associations. In addition, MyBiomed is continuously engaging with regional and international organisations related to Biomedical Science to maintain and further enhance its relevance.

Contact: mybiomed16@gmail.com
Further information about MyBiomed please visit:
https://mybiomed16.wixsite.com/mybiomed

Malaysia Biomedical Science Association

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Event Schedule

9TH AUGUST 2023 - WEDNESDAY
"Navigating the Biomedical Sciences Landscape in Tackling Health Crisis"

TIME	PROGRAMME	VENUE
0830 – 0900	**REGISTRATION**	LT12 Foyer
0900 – 0915	**OPENING CEREMONY** • Speech by Taylor's Executive Dean – Emeritus Professor Dr P.T Thomas • Speech by Chair MyBiomedical Symposium 2023 – Dr Suzita Mohd Noor • Videoshow on MyBiomed	LT12
0915 – 1000	**KEYNOTE ADDRESS:** Prof Emeritus Tan Sri Dato' Dr Mohamed Salleh Mohamed Yasin (Chairman of Spectrum Education Group) *Title: "The prospect and future of Biomedical Sciences in Malaysia"* Session chair: Prof. Umah Rani A/P Kuppusamy	LT12
1000 – 1015	**REFRESHMENTS**	Terrace Deck, Level 2
1015 – 1200	**CONCURRENT SESSIONS**	
	• **ORAL PRESENTATION 1** Moderator: Dr Ibrahim Adham Taib • **ORAL PRESENTATION 2** Moderator: Dr Izatus Shima Taib • **POSTER PRESENTATION** PIC: Dr. Seri Narti Edayu Sarchio	LT12
	UNDERGRADUATE CAREER DEVELOPMENT FORUM Moderators: Ms Teo Sin Yee, Mr Daniel Azreen Bin Amir 1. Ms Kandy anak Bongli (USM Alumni, Science Officer, Hospital Simunjan, MOH) 2. Mr Ayman Lee (IIUM Alumni, Project Manager, Premier Integrated Labs) 3. Mr Bryan Yap (Taylor's University Alumni, PhD fast track candidate) 4. Ms Sally Peh (Taylor's University Alumni, Centre Manager, Byond28 Confinement Care) 5. Ms Mohana Priya (Taylor's University Alumni, Field Application Specialist, Canvio)	LT11
1200 – 1300	**MyBiomed ANNUAL GENERAL MEETING**	LT12

1200 – 1400	**LUNCH BREAK**	Terrace Deck, Level 2
1400 – 1500	**ALLIED HEALTH PROFESSIONAL'S (AHP) FORUM** Moderator: Assoc Prof. Adeline Chia 1. Mr Saravanakumar a/l Maniam (Principal Assistant Director, Allied Health Sciences Division Ministry of Health) 2. Puan Adela Ida Anak Jiram (Head of Profession, Biomedical Scientist, Ministry of Health Malaysia) 3. Prof. Dr. Cheah Yoke Kqueen (Deputy Dean, Faculty of Medicine and Health Sciences, UPM) 4. Dr Raja Elina Raja Aziddin (President, Malaysian Association of Clinical Biochemists) 5. Mr Tan Kian Shing (General Manager, Synapse Sdn Bhd)	LT12
1500 – 1530	**PLENARY LECTURE:** Professor Dr. Chua Chee Wai (Renji-Med X Clinical Stem Cell Research Centre) Title: "Integrating organoid technology and single-cell transcriptomic analysis for the study of prostate luminal progenitors and tumour evaluation" Session Chair: Prof Dr Siti Balkis Budin	LT12
1530 – 1600	**PLENARY LECTURE:** Professor Charles Anthony Rhodes (IBMS Fellow, British Journal of Biomedical Sciences (BJBS) Editor) Title: "Prognostic and predictive biomarkers in breast cancer: an update on clinical usage" Session chair: Assoc. Prof Dr Lim Chooi Ling	LT12
1600 – 1630	**CLOSING CEREMONY** • Announcement of Winners • Closing speech by President, MyBiomed Society 2023/2025	LT12
1630 – 1700	**REFRESHMENT**	Terrace Deck, Level 2

Keynote & Plenary Speakers

Keynote speaker

Prof Emeritus Tan Sri Dato' Dr Mohamed Salleh Mohamed Yasin
(Chairman of Spectrum Education Group)

Professor Emeritus Tan Sri Dato´ Dr Mohamed Salleh Bin Mohamed Yassin graduated in 1974 from Bandung Institute of Technology (ITB), Indonesia in Applied Biology. He later obtained his PhD in1980 and conferred a Doctorate in Science (Honoris Causa) in 2012 from the University of Bath, U.K. Tan Sri was appointed as the 8th Vice Chancellor of the Universiti Kebangsaan Malaysia (UKM) in 2003 until his retirement in 2006. Tan Sri was awarded an Honorary Doctorate in Health Sciences from Universiti Sultan Zainal Abidin (UNISZA) in 2015. In 2014, he was conferred Professor Emeritus from National University of Malaysia (UKM) in 2014.

Prof. Emeritus Tan Sri has made many significant contributions in Health Sciences nationally and internationally. Among his major involvements in the development of Health Sciences include:
Past Chairman, Medical Technologists' Training Programme, Medical Faculty, UKM.
Former Head, Dept. of Microbiology and Immunology, Medical Faculty, UKM.
Past President, Malaysian Society for Infectious Diseases and Chemotherapy (MSIDC).
Past Fellow, Commonwealth Medical Fellowship (Mycology Reference Lab., Public Health Lab. Services, U.K)
Former Deputy Dean (Academic), Med. Fac., UKM.
Founding Head, Biomedical Sciences Degree Programme. (In Collaboration with Commonwealth Higher Education-CICHE and Institute of Biomedical Sciences–IBMS, U.K.)
Founding Dean, Faculty of Allied Health Sci., UKM.
Former Deputy Vice Chancellor (R&D), UKM.
Former Chairman, Board of Directors, Malaysian Qualifications Agency (MQA).
Former Lead Assessor, MQA Self-Accreditation Team.
Founding Director, United Nations University Institute for Global Health (UNU-IIGH).
Former Pro Chancellor / Chairman, Board of Governors, Allianze University College of Medical Sciences (AUCMS).
Current Member, Professional External Advisory Committee (PEAC) & Academic Quality Committee (AQC), International Medical University (IMU).
Current Chairman, Board of Governors, University College MAIWP International (UCMI).
Current Academic Advisor, Damai Specialist Hospital (DSH) Institute of Technology (DIT).
Former Member of Board of Directors (BOD) and current Visiting Professor, Faculty of Medicine, National Defence University of Malaysia (UPNM).

As a scientist in the field of Health Sciences, Tan Sri Professor Salleh´s main research interests are in developing diagnostic kits for systemic fungal infections, as well as research in environmental health.

Presentation Summary

The Future of Biomedical Sciences Programmes in Malaysia: Challenges and Opportunities

M.Salleh B.M Yasin

The first Bachelor of Biomedical Sciences degree programme in Malaysia was offered by Universiti Kebangsaan Malaysia (UKM) in 1992. There are now more than 20 Higher Education Institutions (HEIs) in Malaysia that are offering almost 50 Biomedical Sciences or similar programmes at different levels. The obvious question would be, are there too many of these programmes being offered most importantly in terms of firstly from the need of country perspective and secondly in terms of graduate employability.

The presentation will highlight the history leading to the introduction of Biomedical Sciences programmes in Malaysia, the present state of affairs and the need to revisit and review the challenges and justifications as well the opportunities of offering these programmes so as to be certain that these programmes are relevant and sustainable in the foreseeable future.

Plenary Speaker

Professor Dr. Chua Chee Wai
(Renji-Med X Clinical Stem Cell Research Centre)
cheewaichua@yahoo.com; cwchua@sjtu.edu.cn

Dr. Chee Wai CHUA is a Principal Investigator and Professor at Renji-Med X Clinical Research Stem Cell Center, a Group Leader at State Key Laboratory of Systems Medicine for Cancer, and an Adjunct Professor at Department of Urology, Shanghai Jiao Tong University (SJTU) School of Medicine-affiliated Renji Hospital. He has been selected for the prestigious Shanghai Overseas High-Level Talent Program, and appointed as a Professor of Special Appointment by Shanghai Institutions of Higher Learning, which carries the title "Eastern Scholar". Dr. Chua received a Bachelor of Biomedical Science with honors from Universiti Kebangsaan Malaysia and a Doctor of Philosophy (PhD) in Cancer Biology at Li Ka Shing Faculty of Medicine, The University of Hong Kong. He then joined Professor Michael Shen's group at Columbia University Medical Center (CUMC) for postdoctoral training and was later promoted to an Associate Research Scientist position at Department of Urology, CUMC. At Columbia, Dr. Chua received the Department of Defence Prostate Cancer Research Program Postdoctoral Training Award and AACR Scholar-in-Training Award to functionally analyze the role of androgen receptor in a prostate luminal progenitor population. More importantly, he has developed a novel organoid culture method for maintaining prostate luminal progenitors, prostate and bladder cancers as well as metastases. Notably, these works were published in top journals, include Nature Cell Biology, eLife and Cell, and have earned him two international patents. In the first ever organoid workshop held at Cold Spring Harbor Laboratory, Dr. Chua was invited to serve as a Laboratory Instructor to teach the prostate organoid culture methodology to research trainees from all over the world. He is currently an Editorial Board Member of Cancer Letters and have initiated and served as a Guest Editor of the Special Issues on Prostate Cancer and Stem Cells and Cancer in the journal. Dr. Chua has also served as an ad hoc reviewer for different journals and grants for international organizations, such as Swiss 3R Competence Centre and World Cancer Research Fund International. Since the inception of his research group in Shanghai, Dr. Chua has been actively involved in various stem cell and organoid-related research activities in China and internationally, including serving as the Vice Chair of the Organizing Committee of the Inaugural and the Second Frontiers in Stem Cell and Cancer Research International Conference, contributing on invited reviews on prostate organoid technology and tumor modeling, speaking at various major stem cell and organoid conferences, providing expert opinion for standardized organoid protocols, and involving in drafting of the consensus on clinical application of organoid technology in China and work report on organoid research for Chinese government.

Presentation Summary

Integrating organoid technology and single-cell transcriptomic analysis for the study of prostate luminal progenitors and tumor evolution

Chee Wai Chua, Ph.D.

Principal Investigator and Professor
Renji-Med X Clinical Stem Cell Research Center,
State Key Laboratory of Systems Medicine for Cancer, and Department of Urology,
Ren Ji Hospital, School of Medicine, Shanghai Jiao Tong University,
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In the recent years, we have witnessed the emergence of androgen receptor (AR)-independent prostate cancer (AIPC) with the clinical use of second-generation androgen deprivation therapy, namely Enzalutamide and Abiraterone. Upon the progression to AIPC, the remaining treatment options are mainly palliative but not curable. Therefore, understanding the cellular origins and dynamics involved in AIPC evolution is crucial for the identification of timely treatment strategies for these patients. In this presentation, I will share with you how we integrate organoid technology and single-cell transcriptomic analysis to identify novel AR-independent prostate luminal progenitor and cancer subsets. In particular, we have generated a novel genetically-engineered mouse model, which can efficiently delete *AR* in the prostate epithelium, resulting in the enrichment of AR-independent prostate luminal progenitors. Notably, systematic single-cell transcriptomic profiling and inference study of the isolated prostate luminal progenitor candidate and its organoid derivative have enabled the elucidation of prostate luminal progenitor differentiation trajectories. In addition, we have also analyzed oncogenic-transformed prostate luminal progenitor-initiated tumors upon transplanted into C57BL/6 host mice and identified AIPC subsets that are preferentially expanded or maintained under immune-intact condition. Taken together, our findings have highlighted the capability of organoid technology in preserving progenitor potential and tumor heterogeneity. In future study, we will systematically assess tumor-initiating ability of different prostate luminal progenitors, and elucidate cellular heterogeneity and molecular characteristics of different subsets in the oncogenic-transformed luminal progenitors-initiated AIPCs. Consequently, these investigations should yield novel insights into the emergence of AIPCs as well as identify novel therapeutic targets for AIPC patients.

Key words: AR-independent prostate cancer; prostate luminal stem cells and progenitors; androgen-deprivation therapy; organoid technology; genetically-engineered mouse models

Plenary Speaker

**Professor Charles Anthony Rhodes (IBMS Fellow,
British Journal of Biomedical Sciences (BJBS) Editor)**

Dr Rhodes is currently Editor-in-Chief of the British Journal of Biomedical Science and is a fellow of both the UK Institute of Biomedical Science and the Royal College of Pathologists. He has previously held a range of professorial positions both in Kuala Lumpur and the United Kingdom and has over 19 years experience working in UK NHS laboratories and 20 years employed as an academic. He has researched primarily in the field of breast cancer, which to date have attracted over 19,000 citations and has contributed to ASCO/CAP international guideline papers for the testing of estrogen receptors and HER2 in breast cancer.

Presentation Summary

Prognostic and predictive biomarkers in breast cancer: an update on clinical usage

Anthony Rhodes

Editor-In-Chief,
British Journal of Biomedical Science
*Correspondence: carhodes60@gmail.com

All women with newly diagnosed breast cancer are tested for the hormone receptors, estrogen receptors (ER) and progesterone receptors (PR) in order to determine their likely benefit following surgery of treatment with targeted estrogen antagonists, such as tamoxifen and aromatase inhibitors (1). In addition, since 2005, patients with breast cancer have been routinely tested for expression of the oncogene, human epidermal growth factor receptor -2 (HER2), similarly, to determine benefit from a targeted therapy, trastuzumab (Herceptin) (2). It is important to have reliable assays to detect ER, PR and HER2 in tissue samples, in order determine which patients are likely to respond favorably to these treatments and those that will not. Failure to ensure this can have disastrous results for all concerned. In some instances, assessment of the proliferation marker Ki67, may also be useful in identifying women with early-stage aggressive breast cancers that may benefit from adjuvant chemotherapy. This presentation will discuss the evidence for testing in clinical pathology in addition to the latest recommendations with respect to how the results of the tests should be assessed.

1. Wolff AC et al. American Society of Clinical Oncology/College of American Pathologists guideline recommendations for HER2 testing in breast cancer. J Clinical Oncol 2007; 25: 118-145.
2. Hammond EH, et al. American Society of Clinical Oncology/College of American Pathologists guideline recommendations for immunohistochemical testing of estrogen/progesterone receptors in breast cancer. J Clin Oncol 2010; 28: 2784-2795.
3. Torsten O Nielsen et al, Assessment of Ki67 in Breast Cancer: Updated Recommendations From the International Ki67 in Breast Cancer Working Group, JNCI 2021; 113 (7): 808–819, https://doi.org/10.1093/jnci/djaa201

Allied Health Professional's (AHP) Forum Panels

Panel 1

Mr Saravanakumar a/l Maniam (Principal Assistant Director, Allied Health Sciences Division Ministry of Health)

Mr. Saravanakumar presently holds the position of Principal Assistant Director at the Secretariat for the Malaysian Allied Health Profession Council, Allied Health Sciences Division, Ministry of Health. His career began in 2004 as a Science Officer (Forensic) within the Ministry of Health, immediately after obtaining a degree in Forensic Science from USM.

His professional journey includes service at Kota Bharu Hospital in 2004, Tengku Ampuan Rahimah Hospital in Klang (2005-2011), and Sungai Buloh Hospital (2011-2015). In these roles, he significantly contributed to the development and implementation of forensic procedures, managed the forensic laboratory setup, and provided valuable technical guidance.

In 2015, Mr. Saravanakumar was promoted to the Malaysian Allied Health Professions Council, playing an essential role in establishing the secretariat. He has been instrumental in overseeing the Council's establishment, developing regulatory policies, and offering technical expertise to allied health professionals and organisations.

Over his 19 years of service, Mr. Saravanakumar has continuously expanded his knowledge, earning Master's degrees in Criminal Justice (2011) and Analytical Chemistry (2014) from University Malaya. His extensive experience and understanding of the Allied Health Professions Act and related policies are a testament to his commitment to regulating allied health professionals' practices."

Panel 2

Puan Adela Ida Jiram
(Head of Profession, Biomedical Scientist, Ministry of Health Malaysia)

Miss Adela is a registered Biomedical Scientist, currently serving at the Parasitology Unit of the Infectious Diseases Research Centre at the Institute for Medical Research Malaysia (IMR). She currently serves as the Head of Profession for Biomedical Scientists in the Ministry of Health Malaysia

With a robust career spanning over a decade, Miss Adela's focus revolves around malaria, encompassing both human and simian strains. She holds a Bachelor of Science and a Master of Medical Science from the University of Malaya. Additionally, she possesses an Advanced Diploma in Applied Parasitology and Entomology from the IMR, and she is actively pursuing her PhD in Molecular Medicine at Universiti Sains Malaysia.

Miss Adela's dedication to research is evident through her role as the Principal Investigator for three significant projects at the IMR. She is deeply involved in numerous research initiatives related to human and simian malarias, including ground-breaking work in discovering sub microscopic malaria in Malaysia.

Beyond her research accomplishments, Miss Adela plays an integral role in the academic community. She is an esteemed reviewer for peer-reviewed journals such as Malaria Journal, Acta Tropica, American Journal of Tropical Medicine and Hygiene, and Tropical Medicine. Her extensive contributions extend to authoring and co-authoring over ten journal articles in esteemed peer-reviewed publications. Notably, she is also a contributing author to the "Ensiklopedia Penyakit Berjangkit," a publication by Dewan Bahasa Pustaka.

Miss Adela's remarkable journey in the field of biomedical science serves as an inspiration to fellow researchers and professionals alike. Her commitment to advancing our understanding of malaria and infectious diseases showcases her unwavering dedication and contributions to the medical community.

Panel 3

Prof. Dr. Cheah Yoke Kqueen (Deputy Dean, Faculty of Medicine and Health Sciences, UPM)

Prof. Ts. Dr. Cheah Yoke Kqueen is the Deputy Dean, (Graduate Studies, Industry & Community Relations and Income Generation), Faculty of Medicine and Health Sciences, UPM. He is a Fellow of Academy of Science, a registered Medical Laboratory Scientist (Malaysia), a Chartered Scientist, Fellow of Institute of Biomedical Science, UK and Chartered Biologist, Fellow of the Royal Society of Biology, UK and Fellow of the Royal Society of Chemistry, UK. Prof. Dr. Cheah contributes immensely to non-governmental organisation. He holds the position as the Advisor for Malaysian Biomedical Science Association (MyBiomed), President for BiomedKL and Korean Government Scholarship Alumni. Currently, Prof. Dr. Cheah is the first the Malaysia Allied Health Profession Council for Biomedical. He is also a certified professional in Biorisk Assessment and Biosecurity.

Prof. Ts. Dr. Cheah is an established scientist with more than 250 scientific publications, 5 patents, copyrights and won numerous awards in national and international research exhibitions. He has successfully led 16 grants in the area of Molecular Diagnostics, Genetic Engineering, Drug Discovery, Molecular Biology, Molecular Microbiology, Medical Biotechnology, Molecular Medicine, Genetics, Cancer Biology and Bioinformatics. Prof. Dr. Cheah was awarded as the Top Research Scientist Malaysia in 2017 in listed in the Malaysia Book of Records in 2022.

Panel 4

Dr Raja Elina Raja Aziddin

BSc., DMM, DCB (level 5), PhD.

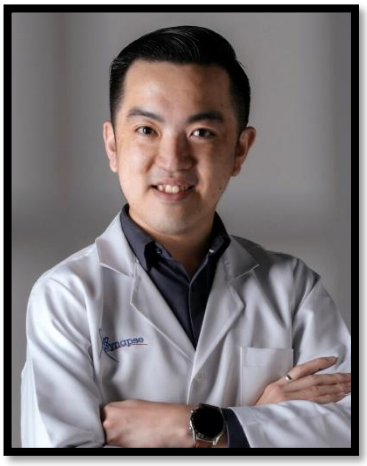
(President, Malaysian Association of Clinical Biochemists)

Dr. Raja Elina has a degree in Biochemistry and PhD in Medical Sciences from University of Malaya. She set up the Drug and Research Unit in Hospital Kuala Lumpur and was head of unit until her retirement in June 2018. Among her in-service accomplishments include the setting up the drug of abuse tests by GC/MS and Tandem Mass Spectrometry for the MOH labs; setting up of special proteins, tumour markers and TDM services in Pathology Department HKL, the implementation of the laboratory information system in mid 90s, ISO 15189 laboratory accreditation in early 2000 as well as the implementation of six sigma and risk management. She was the head of the Clinical Biochemists profession for the Ministry of Health from 2017-2018. Dr Elina has been an invited speaker at many national and international conferences. In 2017 she was appointed as the APFCB travelling lecturer for a term of 3 years.

Dr. Elina is currently the President of the Malaysian Association of Clinical Biochemists (MACB), the national representative to the Asia Pacific Federation of Clinical Biochemistry and Laboratory Medicine (APFCB), a past member of the APFCB Education and Laboratory Management Committee, past chair of the APFCB Communications and Publications Committee and past editor of the APFCB News. In Jan 2023 she was appointed as treasurer of the APFCB.

She is also the national representative to the International Federation of Clinical Chemistry and Laboratory Medicine (IFCC) and a corresponding member of the IFCC Committee on Reference Interval and Decision Limits (C-RIDL. She is currently a member of the IFCC Committee on Clinical Laboratory Management (C-CLM).
Dr. Elina is a Senior Technical Assessor under Standards Malaysia for MS ISO 15189 and is a trained lead assessor. She is a member of Technical Committee of "Clinical Laboratory Testing & In Vitro Diagnostic Test Systems (TC/R/7)" for the Preparation of Malaysian Standards and a member of the International ISO TC 212 working group. In 2020, Dr. Elina was appointed as a Member of Malaysian Allied Health Professions Council (MAHPC) for the Allied Health Professions Act 774 Malaysia for the term 2020 -2023. Dr. Elina has been appointed as the External Advisor for Sunway University for Master in Medical Science and Doctor of Philosophy in Medical Science programs from July 2021 – July 2024. In August 2022 Dr. Elina was appointed as an Adjunct Professor for the School of Health Sciences, University Kebangsaan Malaysia**.**

Panel 5



Mr Tan Kian Shing
(General Manager, Synapse Sdn Bhd)

Mr. Tan Kian Shing is currently the General Manager at Synapse Laboratory, Petaling Jaya, Selangor.
He is a Registered Medical Laboratory Scientist with the Malaysian Allied Health Professions Council (MAHPC) with over 13 years of scientific and managerial experience in medical diagnostics industry. He has accumulated a diverse background of work experience throughout his career at Synapse Laboratory ranging from laboratory testing to quality management. He is currently responsible for overseeing daily operations and implementing growth strategies for Synapse Group of Companies. He represents the company in meetings with financial investors, senior management professionals, clinicians, and key opinion leaders in the industry. He is also a frequent speaker at various local and international CPD talks and conference on medical laboratory-related topics.
Mr. Tan is also the President-Elect of the Malaysian Institute of Medical Laboratory Sciences (MIMLS) and represents MIMLS at various professional activities organised by the Malaysian Confederation of Allied Health Professional Associations (MyCAHP), ASEAN Association for Clinical Laboratory Sciences (AACLS), Asia Association of Medical Laboratory Scientists (AAMLS) and International Federation of Biomedical Laboratory Science (IFBLS). He is also involved in the Allied Health Professions Act 2016 (Act 774) Working Committee for Medical Laboratory Technologist profession at the Allied Health Science Division (BSKB), Ministry of Health, Malaysia.

Scientific Session (Oral & Poster Presenters)

Oral Session 1 (10.15am-11.15am)

ID	PRESENTER	INSTITUTION	TITLE
OL8	Khairin Hamimi Hashim	Universiti Putra Malaysia (UPM)	Molecular Characterization of Carbapenem Resistance in *Klebsiella pneumoniae* Clinical Isolates
OL10	Nur Erysha Sabrina Jefferi	Universiti Kebangsaan Malaysia (UKM)	EVNol SupraBio™ Ameliorates the Testicular Steroidogenesis via Reproductive Hormone Regulation in Bisphenol F-Induced Sprague Dawley Rats
OL11	Noor Saleh Ali Hamam	Universiti Putra Malaysia (UPM)	Occurrence Of Carbapenem-Resistant in *Klebsiella pneumoniae* Clinical Isolates
OL12	Nur Hazirah Tarmizi	Universiti Teknologi MARA(UiTM)	Quantification of Ultrafiltrate Bromelain Enzyme from MD2 Pineapples (*Ananas cosmos*) Cores and Its Cytotoxicity Activity Against L929 Cell
OL13	Raveena Vaidheswary Muralitharan	Universiti Kebangsaan Malaysia (UKM)	Establishing A UVB-Induced BALB/c Mice as a Skin Photoaging Animal Model
ON10	Nur Insyirah Mohd Razalan	Universiti Kebangsaan Malaysia (UKM)	Virulence Genotyping and Multidrug Resistance of *Escherichia coli* Isolated from Plaque Psoriasis Fecal Samples

Oral Session 2 (11.15am-12.00pm)

ID	PRESENTER	INSTITUTION	TITLE
ON1	Se Thoe Ewen	Taylor's University Lakeside Campus	*In Vitro* Evaluation and *In Silico* Prediction of *Cordyceps militaris*-Derived Nucleosides as Potential Therapeutic Agent Against Alzheimer's Disease
ON2	Ng Chu Xin	Taylor's University	Optimization, Characterization, And Cytotoxicity Evaluation of Tuneable Pegylated Liposome Co-Loaded with Doxorubicin Hydrochloride and miR-145 Mimics Against Triple Breast Negative Cancer *In Vitro*

ON7	Yong Gong Yi	Management & Science University (MSU)	Aza-BODIPY based Polymeric Nanoparticles Improves Anti-Tumor Activity for Photothermal Cancer Therapy in Chick Embryo Model
OL1	Sharon Rachel Wong	Taylor's University	miR-21 Expression in Breast Cancer Patients and its Correlation with Demographics, Subtype and Tumour Suppressor Genes: PTEN and PDCD4 in Putrajaya Hospital
OL6	Siti Nursyahirah Bakar	Management & Science University (MSU)	Targeting Tropomyosin Receptor Kinase C Expressing Cancer Cells Through Synthetic Ligand Conjugate and Cyclophosphamide for Immunotherapy
OL9	Rose Amalina Ruslan	Universiti Malaya (UM)	Effects of Quinazoline Derivatives on Non-Small Cell Lung Cancer

Poster Session 1 (10.15am-11.00am)

ID	PRESENTER	INSTITUTION	TITLE
PL2	Nur Athirah Azhar	Universiti Kebangsaan Malaysia (UKM)	Effects of Antibacterial Activity in Extracts Organ of Cockroach (*Periplaneta americana*) Against *Escherichia coli, Staphylococcus aureus, Vibrio cholera, Streptococcus pyogenes*
PL5	Christine Liew	Taylor's University	Cloning of Recombinant FcAR Receptor (CD89) Gene Into the *E.coli* Vector
PL7	Sher Lee Tan	Taylor's University	The Development of 3D-Printed Hemorrhoid Model for Effective Clinical Hemorrhoidal Laser Ablation Training
PL9	Farah Ezleen Aqilah Abu Bakar	Universiti Kebangsaan Malaysia (UKM)	Lineage-Specific Toxicity in Maternal Mice Hematopoietic Stem/Progenitor Cells Induced by Hydroquinone
PL13	Muhammad Adam Jayiddin	Universiti Kebangsaan Malaysia (UKM)	The Effect of Inflammation and Heart failure biomarkers in *Porphyromonas gingivalis*-Induced Zebrafish Hearts
PL15	Nadiah Abdul Gapal	Universiti Selangor (UNISEL)	*In-Vitro* Vasorelaxation Effect of HAB10R12 Endophytic Extract on Isolated Rings from Sprague Dawley Rat

PL16	Chen Mei Ong	Universiti Tunku Abdul Rahman (UNITAR)	Association Between Traditional Chinese Medicine (TCM) Body Constitutions and Polymorphisms of CYP11B2 Gene in Relation to Hypertension in Malaysia
PC9	Nur Izzatul Iman Hairil Azmi	Universiti Kebangsaan Malaysia (UKM)	Isolation and Characterisation of Bacteriophage Against *Pseudomonas aeruginosa*

Poster Session 2 (11.00am-11.30am)

ID	PRESENTER	INSTITUTION	TITLE
PN8	Muhd Hanis Md Idris	Universiti Teknologi Mara (UiTM)	Structural Evidence of Flavonoids as Antitumorigenic Agents against Multiple Targets of Breast Cancer: A Virtual Screening Approach
PN11	Muhammad Luqman Nul Hakim Rohaizad	Universiti Kebangsaan Malaysia (UKM)	Antioxidant Activity of *Plukenetia volubilis* (Sacha Inchi) Oil and Its Effects on The Viability of Human Keratinocyte (HaCaT)
PN15	Amirul Hafiz Ahmad Abdullah	Universiti Kebangsaan Malaysia (UKM)	The Aluminium Exposure Towards Cognitive Functions in Rats
PN20	Shafreena Shaukat Ali	Universiti Sains Malaysia (USM)	Therapeutic Potential of Exosome-Mediated Roselle Extract in Systemic and Histological Alterations Seen in Hypercholesterolemia Rats
PN21	Omchit Surien	Universiti Kebangsaan Malaysia (UKM)	Chemopreventive Effects of Oral Pterostilbene on Initiation and Promotion of Multistage Carcinogenesis in DMBA/TPA Induced Skin Squamous Cell Carcinoma Mouse Model
PN22	Yee Xin Lee	Universiti Kebangsaan Malaysia (UKM)	The Effect of a Short-Term Low Protein Diet on The Oxidative Stress, Biochemical Profile and Histological Changes in The Renal of Weaning Sprague Dawley Rat
PN23	Muhammad Hafiz Zuhdi Fairof	Universiti Kebangsaan Malaysia (UKM)	The Effects of Aluminium Exposure Towards Cognitive Functions in Rats

Poster Session 3 (11.30am-12.00pm)

ID	PRESENTER	INSTITUTION	TITLE
PC1	Humairaa' Majdan	International Islamic University Malaysia (IIUM)	Characterization Of *Candida albicans* Strain (Cocrii-Ac01) Isolated from Autistic Child with Caries and Its Susceptibility Towards Gold, Silver and Bimetallic Gold-Silver Nanoclusters
PC2	Reese Tien Ru En	Taylor's University	*In Silico* Identification of New Anti-SARS-CoV-2 Main Protease (M^{pro}) Molecules from *Datura fastuosa*
PC4	Abdin Shakirin Mohamad Norpi	Universiti Kuala Lumpur Royal College of Medicine Perak	Nano-architecture of Multiadjuvants Amphiphilic Chitosan Nanoparticles as a Delivery Platform for Lipopeptide-Based Vaccine against Group A Streptococcus: Synthesize, Formulating and Physicochemical Analysis
PC6	Dhipan Raj A/L Subramaniam	Universiti Malaysia Terengganu (UMT)	Medicinal Properties of Coastal Medicinal Plant *Ipomoea pes-caprae* Stem and Roots as Anti-Oxidant and Antibacterial
PL6	Elvi Zi Xun Lim	Taylor's University	Labelling Accuracy and Microbiological Quality of Probiotic Dietary Supplements Sold in Malaysia

List of Oral and Poster Participants for MyBiomed Symposium 2023

List of Oral Participants

OC1	***Plasmodium cynomolgi* and *Plasmodium inui*: New Public Health Challenges by Emerging Zoonotic Simian Malaria Parasites due to High Transmission Efficiency of The Vector** Nantha Kumar Jeyaprakasam, Van Lun Low, Sandthya Pramasivan, Jonathan Wee Kent Liew, Wan-Yusoff Wan-Sulaiman & Indra Vythilingam Biomedical Science Program, Center for Toxicology and Health Risk Studies, Faculty of Health Sciences, Universiti Kebangsaan Malaysia, Kuala Lumpur, Malaysia
OC3	**Antibacterial Effect of *Zingiber zerumbet* Extract with Different Polarity and Its Combination with Antibiotics Toward Gram Negative Bacteria Using Azdast Method.** Noor Syazwani Abdul Majid, Asmah Hamid, Ahmad Zorin Sahalan, and Nurul Farhana Jufri Centre for Toxicology and Health Risk (CORE), Faculty of Health Sciences, Universiti Kebangsaan Malaysia, 50300 Kuala Lumpur, Malaysia
OD1	**Identification of 18-Amino Acids Anticancer Peptide (ACP) Derivative, D18.13 from Pardaxin Using in Silico Analysis** Yong Hui, Wong & Sau Har, Lee School of Biosciences, Faculty of Health and Medical Sciences, Taylor's University, Subang Jaya, Selangor
OL1	**MIR-21 Expression in Breast Cancer Patients and Its Correlation with Demographics, Subtype and Tumour Suppressor Genes: PTEN and PDCD4 In Putrajaya Hospital** Sharon Rachel Wong, Pei Pei Chong, Tamri Mohd Islahuddin Mohd & Sau Har Lee School of Biosciences, Faculty of Health and Medical Sciences, Taylor's University, Selangor, Malaysia
OL2	**Comparison of Polyphenolic Bioactive Compounds in Aqueous, Aqueous Ethanolic, And Polyphenol Rich Extract of *Hibiscus sabdariffa* Linn** Syaifuzah Sapian, Izatus Shima Taib, Jalifah Latip, Haliza Katas & Siti Balkis Budin Centre for Diagnostic, Therapeutic and Investigative Studies, Faculty of Health Sciences, Universiti Kebangsaan Malaysia, Kuala Lumpur 50300, Malaysia.
OL3	**Optimization of Total Flavonoids Extraction from *Suaeda salsa* and Evaluation of Their Toxicity Profile in Sprague-Dawley (SD) Rats** Liu Hongxia, Yow Hui Yin, Zhang Guozhe & Sharina Hamzah School of Pharmacy, Faculty of Health and Medical Sciences, Taylor's University, 47500, Subang Jaya, Selangor, Malaysia.
OL5	**The Effects of *Zingiber officinale* Extract on Chronic Nicotine Toxicity in Mice Kidney** Putera Muhammad Hazim Amiruddin, Liyana Shafiqah Sahul Hamid, Nor Syafinaz Yaakob & Satirah Zainalabidin Programme of Biomedical Science, Centre of Toxicology and Health Risk Study, Faculty of Health Sciences, Universiti Kebangsaan Malaysia, Kuala Lumpur, Malaysia.
OL6	**Targeting Tropomyosin Receptor Kinase C Expressing Cancer Cells Through Synthetic Ligand Conjugate and Cyclophosphamide for Immunotherapy** Siti Nursyahirah Bakar, Kevin Burgess, Kiew Lik Voon & Kue Chin Siang Faculty of Health and Life Sciences, Management and Science University, Seksyen 13, 40100 Shah Alam, Selangor, Malaysia
OL7	**Testing Insecticide Susceptibility of *Aedes albopictus* Collected from Recreational Parks in Selangor, Malaysia, in WHO Tube Tests** Nurul-Nastasea Sabar, Yu Ke-Xin, Norain Zulkarnain, Low Jo Ee, Rohani Ahmad, Zurainee Mohamed Nor, Rezki Sabrina Masse, Roza Dianita & Tengku Idzzan Nadzirah Tengku Idris Faculty of Health and Life Sciences, Management and Science University, Seksyen 13, 40100 Petaling, Selangor, Malaysia.

OL8	**Molecular Characterization of Carbapenem Resistance in *Klebsiella pneumoniae* Clinical Isolates** Khairin Hamimi Hashim, Nurshahira Sulaiman, Hazmin Hazman, Mohd Nasir Mohd Desa Department of Biomedical Sciences, Faculty of Medicine and Health Sciences, Universiti Putra Malaysia (UPM), 43400, Serdang, Selangor, Malaysia
OL9	**Effect of Quinazoline Derivatives on Non-Small Cell Lung Cancer** Rose Amalina Ruslan, Suzita Mohd Noor, Leong Kok Hoong & Anwar Norazit Department of Biomedical Science, Faculty of Medicine, Universiti Malaya 50603 Kuala Lumpur
OL10	**EVNOL SUPRABIO™ Ameliorates the Testicular Steroidogenesis via Reproductive Hormone Regulation in Bisphenol F-Induced Sprague Dawley Rats** Nur Erysha Sabrina Jefferi, Joyce Goh Yi Shin, Siti Balkis Budin, Zariyantey Abdul Hamid & Izatus Shima Binti Taib Centre of Diagnostic, Therapeutic & Investigative Studies, Faculty of Health Sciences, Universiti Kebangsaan Malaysia, Jalan Raja Muda Aziz, 50300 Kuala Lumpur, Malaysia
OL11	**Occurrence of Carbapenem-Resistant In *Klebsiella pneumoniae* Clinical Isolates** Noor Saleh Ali Bin Hamam, Hazmin Hazman, Nurshahira binti Sulaiman & Siti Nurbaya Masri Department of Biomedical Science, Faculty of Medicine and Health Sciences, Universiti Putra Malaysia
OL12	**Quantification of Ultrafiltrate Bromelain Enzyme from MD2 Pineapples (*Ananas cosmos*) Cores and Its Cytotoxicity Activity Against L929 cell** Nur Hazirah Tarmizi, Amin Saiff Johari, Nur Ayunie Zulkepli, Norehan Mokhtar & Mohd Khairul Ya'kub Centre for Medical Laboratory Technology Studies, Universiti Teknologi MARA, Puncak Alam Campus, Selangor, Malaysia
OL13	**Establishing A UVB-induced BALB/C Mice as A Skin Photoaging Animal Model** Raveena Vaidheswary Muralitharan, Dayang Fredalina Basri, Siti Fathiah Masre & Ahmad Rohi Ghazali Center for Toxicology and Health Risk Studies (CORE), Faculty of Health Sciences, Universiti Kebangsaan Malaysia, Jalan Raja Muda Abdul Aziz, 50300 Kuala Lumpur
ON1	***In Vitro* Evaluation and *In Silico* Prediction of *Cordyceps militaris*-Derived Nucleosides as Potential Therapeutic Agent Against Alzheimer's Disease** Ewen Se Thoe, Yoke Yin Chia, Sunita Chamyuang & Yin Quan Tang School of Biosciences, Faculty of Health and Medical Sciences, Taylor's University Lakeside Campus, 47500 Subang Jaya, Selangor, Malaysia
ON2	**Optimization, Characterization, and Cytotoxicity Evaluation of Tuneable Pegylated Liposome co-Loaded with Doxorubicin Hydrochloride and MIR-145 Mimics Against Triple Breast Negative Cancer *In Vitro*.** Chu Xin Ng, Chee Wun How, Pei Pei Chong & Sau Har Lee School of Biosciences, Faculty of Health and Medical Sciences, Taylor's University, Lakeside Campus, Selangor, Malaysia.
ON3	**Suppression of Diabetic Cardiomyopathy Progression by Roselle Polyphenol-Rich Extract via Modulation of Oxidative Stress** Fatin Farhana Jubaidi, Nur Liyana Mohammed Yusof, Satirah Zainalabidin, Izatus Shima Taib, Zariyantey Abdul Hamid & Siti Balkis Budin Center for Diagnostic, Therapeutic & Investigative Studies, Faculty of Health Sciences, Universiti Kebangsaan Malaysia, Kuala Lumpur, Malaysia
ON4	**The Bisphenol F Induced Estrogen-Like Effect in The Seminiferous Tubules of *Sprague-Dawley* Rats** Asma' 'Afifah Shamhari, Siti Balkis Budin , Zariyantey Abd Hamid & Izatus Shima Taib Center of Diagnostics, Therapeutics, and Investigative Studies (CODTIS), Faculty of Health Sciences, Universiti Kebangsaan Malaysia, Jalan Raja Muda Abdul Aziz, Kuala Lumpur 50300, Wilayah Persekutuan, Malaysia

ON5	**Proteomic and Barrier Analysis of Human Brain Endothelial Cells (HBEC-5i) Under Compromised Lysosome Function** Iffah Nadiah Laili, Nurul Farhana Jufri, Asmah Hamid, Farah Wahida Ibrahim & Mohd Hamzah Mohd Nasir Centre for Toxicology and Health Risk Studies (CORE), Programme of Biomedical Science, Faculty of Health Sciences, Universiti Kebangsaan Malaysia, Jalan Raja Muda Abdul Aziz, 50300 Kuala Lumpur, Malaysia
ON7	**AZA-Bodipy Based Polymeric Nanoparticles Improves Anti-Tumor Activity for Photothermal Cancer Therapy in Chick Embryo Model** Gong Yi Yong, Anyanee Kamkaew & Chin Siang Kue Faculty of Health and Life Sciences, Management and Science University, Seksyen 13, 40100 Shah Alam, Selangor, Malaysia
ON9	**Role of Nestin and Associated miRNAS in Extracellular Vesicles Derived from Colorectal Cancer** Wen Ao Bong, Siti Fathiah binti Masre & Nadiah Abu UKM Medical Molecular Biology Institute, The National University of Malaysia, Cheras, Malaysia
ON10	**Virulence Genotyping and Multidrug Resistance of *Escherichia coli* Isolated from Plaque Psoriasis Fecal Samples** Nur Insyirah Binti Mohd Razalan, Vanitha Mariappan, Shanti Krishnasamy, Tang Shirley Gee Hoon & Kumutha Malar Vellasamy Department of Medical Microbiology, Faculty of Medicine, Universiti Malaya, 50603 Kuala Lumpur Malaysia
ON12	**Effects of Oral Pterostilbene Towards Pigmentation in UVB-Induced Skin Photoaging Balb/C Mouse Model** Poh Jing Ren, Ahmad Rohi Ghazali & Raveena Vaidheswary Muralitharan Center for Toxicology and Health Risk (CORE), Faculty of Health Sciences, Universiti Kebangsaan Malaysia, Kuala Lumpur, 50300, Malaysia
ON13	**The Impact of Carvacryl-2-Oxoethylgallate on Oxidative Stress in Doxorubicin-Induced Cardiotoxicity** Alhaan Faatihah Muha, Jalifah Latip & Satirah Zainalabidin Programme of Biomedical Science, Centre of Toxicology and Health Risk Study, Faculty of Health Sciences, Universiti Kebangsaan Malaysia, Kuala Lumpur, Malaysia.

List of Poster Participants

PC1	**Characterization of *Candida albicans* Strain (COCRII-AC01) Isolated from Autistic Child with Caries and Its Susceptibility Towards Gold, Silver and Bimetallic Gold-Silver Nanoclusters** Humairaa' Majdan, Syarifah Nurhikmah Izzati Syed Nasarudin, Humairaa' Majdan, Ricca Rahman Nasaruddin & Mohd Hafiz Arzmi Cluster of Cancer Research Initiative IIUM (COCRII), International Islamic University Malaysia, Kuantan, Pahang, Malaysia
PC2	***In Silico* Identification of New Anti-SARS-CoV-2 Main Protease (M^{pro}) Molecules from *Datura fastuosa*** Tien RRE & Tang YQ School of Biosciences, Faculty of Health and Medical Sciences, Taylor's University, Subang Jaya, Selangor, Malaysia
PC3	**Assessment of Knowledge, Attitude, and Prevention Practices Towards Melioidosis Among Farmers in Selangor: A Cross-Sectional Study** Nur Dina Muhammad Fuad, Vanitha Mariappan, Ismarulyusda Isyak, Kumutha Malar Vellasamy & Sheila Nathan Biomedical Sciences Program, Faculty of Health Sciences, Universiti Kebangsaan Malaysia, 50300 Kuala Lumpur, Malaysia
PC4	**Nano-architecture of Multiadjuvants Amphiphilic Chitosan Nanoparticles as a Delivery Platform for Lipopeptide-Based Vaccine against Group A Streptococcus: Synthesize, Formulating and Physicochemical Analysis** Abdin Shakirin Mohamad Norpi, Fazren Azmi, Muhammad Luqman Nordin, Nuraziemah Ahmad, Haliza Katas & Abdullah Al-Hadi Ahmad Fuaad Faculty Pharmacy and Health Sciences, Universiti Kuala Lumpur, Royal College of Medicine Perak, Perak 30450, Malaysia
PC5	**Neutrophil Oxidative Burst Activity Response to *Staphylococcus aureus* of Carriage Origin** Seri Narti Edayu Sarchio, Nur Farahna Talib & Mohd Nasir Mohd Desa Department of Biomedical Sciences, Faculty of Medicine and Health Sciences, Universiti Putra Malaysia, 43400, Serdang, Selangor, Malaysia
PC6	**Medicinal Properties of Coastal Medicinal Plant *Ipomoea pes-caprae* Stem and Roots as Anti-Oxidant and Antibacterial** Dhipan Raj, Khaizuran Shahiran Mohd Izhan & Suvik Assaw Marine Biology Program, Faculty of Science and Marine Environment, Universiti Malaysia Terengganu, 21030 Mengabang Telipot, Kuala Nerus, Terengganu, Malaysia.
PC7	**Quality of Life Status and Risk Factors Among Hospital Canselor Tuanku Muhriz (HCTM) Staff Who Have Recovered From COVID-19** Ismarulyusda Ishak, Fathin Nurnabila Ab Sofi, Hazfalinda Hamzah, Wan Nor Atikah Che Wan Mohd Rozali, Khamsiah Nawawi, Nurmasitah Mohd Nazri, Nora Aini Ramly, Manendra & Indang Trihandini Biomedical Science Program, Center for Toxicology & Health Risk Research (CORE), Faculty of Health Sciences, Universiti Kebangsaan Malaysia, Jalan Raja Muda Abdul Aziz, 50300 Kuala Lumpur, Malaysia
PC8	**Uncovering The Link: Mobile Phones as Potential Fomites to Bacterial Transmission - A Case Study From Universiti Kebangsaan Malaysia** Laila Rashiqah binti Md Rapit, Shirley Gee Hoon Tang, Noraziah Mohammad Zin & Nor Malia Abd Warif Biomedical Science Programme, Faculty of Health Sciences, Universiti Kebangsaan Malaysia, Jalan Raja Muda Abdul Aziz, 50300 Kuala Lumpur, Malaysia
PC9	**Isolation and Characterization of Bacteriophage against *Pseudomonas aeruginosa*** Nur Izzatul Iman Hairil Azmi, Vanitha Mariappan, Yap Wei Boon, Yue-Min Lim & Kumutha Malar Vellasamy

	Biomedical Sciences Program, Faculty of Health Sciences, Universiti Kebangsaan Malaysia, 50300 Kuala Lumpur, Malaysia
PC10	**Prevalence and demographic risk factors of active tuberculosis (TB): retrospective data in Premier Integrated Labs experience** Nur Amirah Alias, Farah Wahida Ibrahim , Nurul Farhana Jufri, Siti Fathiah Masre, Ismarulyusda Ishak, Sayyidi Hamzi Abdul Raub, Mohd Hareeff Muhammed & Ashraf Hakim Dzulkarnain Azman Biomedical Science Programme, Faculty of Health Sciences, Universiti Kebangsaan Malaysia, Jalan Raja Muda Abdul Aziz, 50300 Kuala Lumpur, Malaysia
PD1	**GABAergic Circuit of Brain Circadian Clocks: Theoretical Framework of A Network Simulation** Ze Ee Chan & Sheena Yin Xin Tiong Institute of Biological Sciences, Faculty of Science, Universiti Malaya, 50603 Kuala Lumpur
PD2	**Biological Activities of *Cordyceps militaris* & *Yerba santa* as Acetylcholinesterase Inhibitors** Thit Oo, Chia Yoke Yin & Chua Lin Lin School of Biosciences, Taylors University, Subang Jaya, Malaysia
PD3	***In-Silico* Sequence and Phylogenetic Analyses of Hemagglutinin (H) and Fusion (F) Genes of Canine Distemper Virus (CDV) Towards Prediction of Its Zoonosis Potential** Mohd Arifin Kaderi, Nurul Fatihah Nadia Abdullah & Muhammad Danial Adham Rosman Department of Biomedical Science, Kulliyyah of Allied Health Sciences, International Islamic University Malaysia, Bandar Indera Mahkota, 25200 Kuantan, Pahang, Malaysia
PD4	**Determination of Knowledge, Attitude and Practice Questionnaires on E-Huffaz Prohealth: Development and Validation** Wan Nor Atikah Che Wan Mohd Rozali, Ismarulyusda Ishak, Arimi Fitri Mat Ludin, Amanina Athirah Mad Azli, Nurul 'Izzah Solah, Farah Wahida Ibrahim & Nor Malia Abd. Warif Biomedical Science Program, Faculty of Health Sciences, Universiti Kebangsaan Malaysia, Jalan Raja Muda Abdul Aziz, 50300 Kuala Lumpur, Malaysia
PL1	***Canarium odontophyllum* Miq. Leaves Extract as New Drug Alternative for Malaria Treatment** Fifi Fariza Azmi, Shafariatul Akmar Ishak, Dayang Fredalina Basri, Noraziah Md Zin, M. Ismail Md Esam, Yee Ling Lau & Jonathan Wee Kent Liew Centre for Diagnostic, Therapeutic & Investigative Studies (CODTIS), Faculty of Health Sciences, Universiti Kebangsaan Malaysia, Kuala Lumpur, Malaysia
PL2	**Effects of Antibacterial Activity in Extracts Organ of Cockroach (*Periplaneta americana*) against *Escherichia coli, Staphylococcus aureus, Vibrio cholera, Streptococcus pyogenes*** Nur Athirah Azhar, Shafariatul Akmar Ishak & Ahmad Zorin Sahalan Department of Biomedical Sciences, Faculty of Health Science, Universiti Kebangsaan Malaysia, Jalan Raja Muda Abdul Aziz, 50300 Wilayah Persekutuan Kuala Lumpur, Malaysia
PL3	**Histological Study of The Effects of Dabai Leaf (*Canarium odontophyllum*) In Methanol Extract on ICR Mice Infected with *Plasmodium berghei* NK65** Nurul Izzatie Mohd Ghabi, Shafariatul Akmar Ishak & Fifi Fariza Azmi Degree Program in Biomedical Sciences, Faculty of Health Sciences, University International of Malaysia (UKM), Kuala Lumpur, Malaysia
PL4	**The Histological Effects of Hexane Extract *Canarium odontophyllum* miq. Leaves Towards ICR Mice Infected with *Plasmodium Berghei* NK65** Khairunnisa-Khairuddin, Shafariatul Akmar-Ishak & Fifi Fariza-Azmi Department of Health Science Faculty,University Kebangsaan Malaysia, Jalan Raja Muda Abdul Aziz, 50300 Kuala Lumpur, Malaysia.

PL5	**Cloning of Recombinant FCAR Receptor (CD89) Gene into The *E. coli* Vector** Christine Liew, Pei Pei Chong, Siti Hajar Yusof & Jason Khai Wei Lee School of Biosciences, Faculty of Health and Medical Sciences, Taylor's University
PL6	**Labelling Accuracy and Microbiological Quality of Probiotic Dietary Supplements Sold in Malaysia** Elvi Zi Xun Lim & Caroline Lin Lin Chua School of Biosciences, Faculty of Health and Medical Sciences, Taylor's University.
PL7	**The Development of 3D-Printed Hemorrhoid Model for Effective Clinical Hemorrhoidal Laser Ablation Training** Sher Lee Tan, Yin How Wong, Yin Quan Tang, Chai Hong Yeong & Lin Lin Caroline Chua School of Medicine, Faculty of Health and Medical Sciences, Taylor's University
PL8	**Effects of Low Protein Diet on Oxidative Stress and Liver Function in Weaning Sprague Dawley Rat** Natasya Asyura Mohd Yunus, Balkis Budin, Lim See Meng & Elvy Suhana Mohd Ramli Biomedical Science Programme, Faculty of Health Sciences, Universiti Kebangsaan Malaysia, Jalan Raja Muda Abdul Aziz, 50300 Kuala Lumpur, Malaysia
PL9	**Lineage-Specific Toxicity in Maternal Mice Hematopoietic Stem/Progenitor Cells Induced by Hydroquinone** Farah Ezleen Aqilah Abu Bakar, Zariyantey Abd Hamid, Nur Najmi Mohamad Anuar & Nur Afizah Yusoff Biomedical Science Programme, Center for Diagnostic, Therapeutic and Investigative Studies, Faculty of Health Sciences, Universiti Kebangsaan Malaysia, Jalan Raja Muda Abdul Aziz, Kuala Lumpur 50300, Malaysia
PL10	**Analysis of Oxidative Stress and Hepatotoxicity in Maternal Mice Exposed to Hydroquinone** Nurizzati Arifah Mazlan, Zariyantey Abd Hamid, Siti Balkis Budin & Nur Afizah Yusoff Biomedical Science Programme, Center for Diagnostic, Therapeutic and Investigative Studies, Faculty of Health Sciences, Universiti Kebangsaan Malaysia, Jalan Raja Muda Abdul Aziz, Kuala Lumpur 50300, Malaysia
PL11	**Effects of *In Utero* Hydroquinone Exposure on Oxidative Stress and Histopathological Changes in Maternal Mice Kidney** Nurul Husnina Khairul Zain, Zariyantey Abdul Hamid, Izatus Shima Taib & Nur Afizah Yusoff Biomedical Science Programme, Center for Diagnostic, Therapeutic and Investigative Studies, Faculty of Health Sciences, Universiti Kebangsaan Malaysia, Jalan Raja Muda Abdul Aziz, Kuala Lumpur 50300, Malaysia
PL12	**Investigating The Effect of *In Utero* Hydroquinone Exposure on Oxidative Stress And Histopathological Changes in Spleen of Maternal Mice** Nur Afizah Yusoff, Zariyantey Abd Hamid, Isna Syafiqa Isnimudin, Nor Malia Abd Warif, Siti Balkis Budin & Izatus Shima Taib Biomedical Science Programme, Center for Diagnostic, Therapeutic and Investigative Studies, Faculty of Health Sciences, Universiti Kebangsaan Malaysia, Jalan Raja Muda Abdul Aziz, Kuala Lumpur 50300, Malaysia
PL13	**The effect of Inflammation and Heart failure biomarkers in Porphyromonas gingivalis-induced Zebrafish Hearts** Muhammad Adam Jayiddin, Nur Najmi Mohamad Anuar, Nurrul Shaqinah Nasruddin & Malik Adewoyin Programme of Biomedical Science, Centre for Toxicology & Health Risk Studies, Faculty of Health Sciences, Universiti Kebangsaan Malaysia, Kuala Lumpur, Malaysia
PL14	**The Association Between Cytogenetics Abnormalities with Prognosis of Acute Myeloid Leukemia (AML) in Pantai Premier Pathology (PPP)** Nurul Farhana Jufri, Nur An-Nasyirah Hanin Abu Bakar, Saira Bahnu Mohamed Yousoof, Farah Wahida Ibrahim, Siti Fathiah Masre & Ismarulyusda Ishak

	Biomedical Science Programme, Faculty of Health Sciences, Universiti Kebangsaan Malaysia, Jalan Raja Muda Abdul Aziz, 50300, Kuala Lumpur.
PL15	***In-Vitro* Vasorelaxation Effect of HAB10R12 Endophytic Extract on Isolated Aorta Rings from Sprague Dawley Rat** Nadiah Abdul Gapal, Ahmad Norasidi Mohd Raffie, Sharifah Izwan Tn Othman, Hamidah Abu Bakar & Wan Amir Nizam Wan Ahmad Faculty of Health Sciences, Universiti Selangor (UNISEL), Shah Alam Campus, Jalan Zirkon A7/A, Section 7, Shah Alam, Selangor Darul Ehsan
PL16	**Association Between Traditional Chinese Medicine Body Constitutions and Polymorphism of *CYP11B2* Gene in Relation To Hypertension In Malaysia** Chen Mei Ong & Lai Kuan Teh Department of Allied Health Sciences, Faculty of Science, Universiti Tunku Abdul Rahman (UTAR), Kampar, Perak, Malaysia.
PN1	**Evaluation of Cancer Stigma and Cancer Awareness Among Private University Students in Klang Valley** Daniel Azreen Amir & Tor Yin Sim School of Biosciences, Faculty of Health and Medical Sciences, Taylor's University, Subang Jaya, Selangor, Malaysia
PN2	**Assessing The Effect of *Abelmoschus esculentus* (L.) Moench Seeds on Cardiac Oxidative Stress in An Obese Mouse Model** Maizatul Husna Saipudin, Azizah Ugusman, Adila A Hamid & Nur Najmi Mohamad Anuar Programme of Biomedical Science, Centre for Toxicology & Health Risk Studies, Faculty of Health Sciences, Universiti Kebangsaan Malaysia, Kuala Lumpur, Malaysia
PN3	**Evaluating The Effect of *Abelmoschus esculentus* (L.) Moench Peel On Cardiac Oxidative Stress in Obese Mice Model** Ainnur Syarahafizah Mohd Soeb, Azizah Ugusman, Adila A Hamid & Nur Najmi Mohamad Anuar Programme of Biomedical Science, Centre for Toxicology & Health Risk Studies, Faculty of Health Sciences, Universiti Kebangsaan Malaysia, Kuala Lumpur, Malaysia
PN4	**The Effect of *Hibiscus sabdariffa* Linn. (Roselle) Polyphenol-Rich Extract (HPE) On Renal Oxidative Damage in Diabetic Rats** Sumayyah Ismail & Siti Balkis Budin Biomedical Science Programme, Faculty of Health Sciences, Universiti Kebangsaan Malaysia, Jalan Raja Muda Abdul Aziz, 50300 Kuala Lumpur, Malaysia
PN5	**Expression Study of Glial Cell-Derived Neurotrophic Factor (GDNF) in AB Wildtype (WT) Zebrafish (*Danio rerio*)** Tan Zing Hern, Suzita Mohd Noor, Kamariah Ibrahim & Anwar Norazit Department of Biomedical Science, Faculty of Medicine, University Malaya, Kuala Lumpur 50603, Malaysia
PN6	**Bisphenol F Causes Prostate Hyperplasia via Its Endocrine Disrupting Effects** Izatus Shima Taib, Asma' 'Afifah Shamhari, Zariyantey Abd Hamid, Siti Balkis Budin & Nur Annisa Mod Kharir Center of Diagnostics, Therapeutics, and Investigative Studies (CODTIS), Faculty of Health Sciences, Universiti Kebangsaan Malaysia, Jalan Raja Muda Abdul Aziz, Kuala Lumpur 50300, Wilayah Persekutuan, Malaysia
PN7	**Nanoscale Measurement of Collagen Dysregulation in Dual-stage Carcinogenesis of Lung Squamous Cell Carcinoma *in vivo*: an Atomic Force Microscopy Approach** Muhammad Asyaari Zakaria, Jazli Aziz, Nor Fadilah Rajab, Eng Wee Chua & Siti Fathiah Masre Department of Pharmaceutical Technology, Faculty of Pharmacy and Health Sciences, Royal College of Medicine Perak, Universiti Kuala Lumpur, 30450 Ipoh, Perak, Malaysia
PN8	**Structural Evidence of Flavonoids as Antitumorigenic Agents against Multiple Targets of Breast Cancer: A Virtual Screening Approach**

	Muhd Hanis Md Idris, Masnizahani Jamil, Mohd Salleh Rofiee, Teh Lay Kek & Mohd Zaki Salleh Drug Discovery Center (DDC), Integrative Pharmacogenomics Institute (iPROMISE), Universiti Teknologi MARA (UiTM) Selangor, Puncak Alam Campus, 42300 Bandar Puncak Alam, Selangor, Malaysia
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PN12	**Evaluation of Cytotoxic Effect of Hydroquinone on Human Brain Endothelial Cells, HBEC-5i** Noor Afiifah Ibrahim, Nurul Farhana Jufri, Chan Kok Meng & Nor Fadilah Rajab Biomedical Science Program, Faculty of Health Sciences, Universiti Kebangsaan Malaysia, Jalan Raja Muda Abdul Aziz, 50300 Kuala Lumpur, Malaysia
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PN14	***Hibiscus sabdariffa Linn* (Roselle) Polyphenol Extract (HPE) Attenuate Aorta Redox Imbalance in Diabetic Rats Model** Nor Anizah Mohd Nor, Siti Balkis Budin, Nur Najmi Mohamad Anuar, Satirah Zainalabidin & Juriyati Jalil [1]Centre for Diagnostic, Therapeutic and Investigative Studies, Faculty of Health Sciences, Universiti Kebangsaan Malaysia, Kuala Lumpur, Malaysia.
PN15	**Effects of Aluminum Exposure Towards Cognitive Functions in Rats** Amirul Hafiz Ahmad Abdullah, Nurul Farhana Jufri, Siti Fathiah Masre, Nor Fadilah Rajab, Mohd Hanafi Ahmad Damanhuri & Farah Wahida Ibrahim Center for Toxicology and Health Risk Studies (CORE), Faculty of Health Sciences, Universiti Kebangsaan Malaysia, 50300 Kuala Lumpur, Malaysia
PN16	**Oxidative Stress Status of Metabolic Organ in Maternal Mice Exposed to Hydroquinone** Zariyantey Abd Hamid, Farah Ezleen Aqilah Abu Bakar, Nurizzati Arifah Mazlan, Nur Afizah Yusoff, Nur Najmi Mohamad Anuar, Siti Balkis Budin & Izatus Shima Taib Biomedical Science Programme, Center for Diagnostic, Therapeutic and Investigative Studies, Faculty of Health Sciences, Universiti Kebangsaan Malaysia, Jalan Raja Muda Abdul Aziz, Kuala Lumpur 50300, Malaysia
PN17	**Antimalarial Activity of Guava Leaf Extracts (*Psidium guajava*) Against Erythrocytes Infected with *Plasmodium berghei* NK65 via *Ex Vivo*** Shafariatul Akmar Ishak, Noraniza Ariffin & Fifi Fariza Azmi Center For Toxicology and Health Risk Studies, Faculty of Health Sciences, Universiti Kebangsaan Malaysia, 50300 Jalan Raja Muda Abdul Aziz, Kuala Lumpur, Malaysia

PN18	**The Effects of Bisphenol F on Red Blood Cells of Sprague-Dawley Rats *In Vivo*** Muhammad Afiq Bin Azhar & Dr Izatus Shima binti Taib [1]Biomedical Sciences Program, Faculty of Health Sciences, Universiti Kebangsaan Malaysia, 50300 Kuala Lumpur, Malaysia
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PN20	**Therapeutic Potential of Exosome-Mediated Roselle Extract in Systemic and Histological Alterations Seen in Hypercholesterolemia Rats** Shafreena Shaukat Ali, Liza Noordin, Anani Aila Mat Zin, Nazatul Shima Shahidan, Ruzilawati Abu Bakar, Maizatul Hasyima Omar & Wan Amir Nizam Wan Ahmad Programme of Biomedicine, School of Health Sciences, Universiti Sains Malaysia, Health Campus, 16150 Kubang Kerian, Kelantan, Malaysia
PN21	**Chemopreventive Effects of Oral Pterostilbene On Initiation And Promotion Of Multistage Carcinogenesis In DMBA/TPA Induced Skin Squamous Cell Carcinoma Mouse Model** Omchit Surien, Siti Fathiah Masre, Dayang Fredalina Basri & Ahmad Rohi Ghazali Center for Toxicology and Health Risk Studies (CORE), Faculty of Health Sciences, Universiti Kebangsaan Malaysia (UKM), Kuala Lumpur, Malaysia
PN22	**The Effect of a Short-Term Low Protein Diet on The Oxidative Stress, Biochemical Profile and Histological Changes in The Renal of Weaning Sprague Dawley Rat** Yee Xin Lee, Siti Balkis Budin, See Meng Lim & Elvy Suhana Mohd Ramli Biomedical Science Programme, Faculty of Health Sciences, Universiti Kebangsaan Malaysia, Jalan Raja Muda Abdul Aziz, 50300 Kuala Lumpur, Malaysia
PN23	**Does Chrono-Resistance Training in Rat Influence Its Cognitive Performance and Oxidative Status in Hippocampus?** Muhammad Hafiz Zuhdi Fairof, Arimi Fitri Mat Ludin, Hazlini Suhaida Mohd Nazri, Muhammad Halil Fikri Lailil nizan, Nur Aisyah Anuar, Farah Wahida Ibrahim & Nor Fadilah Rajab Centre for Healthy Ageing and Wellness HCARE, Faculty of Health Sciences UKM KL Jln Raja Muda Abd Aziz

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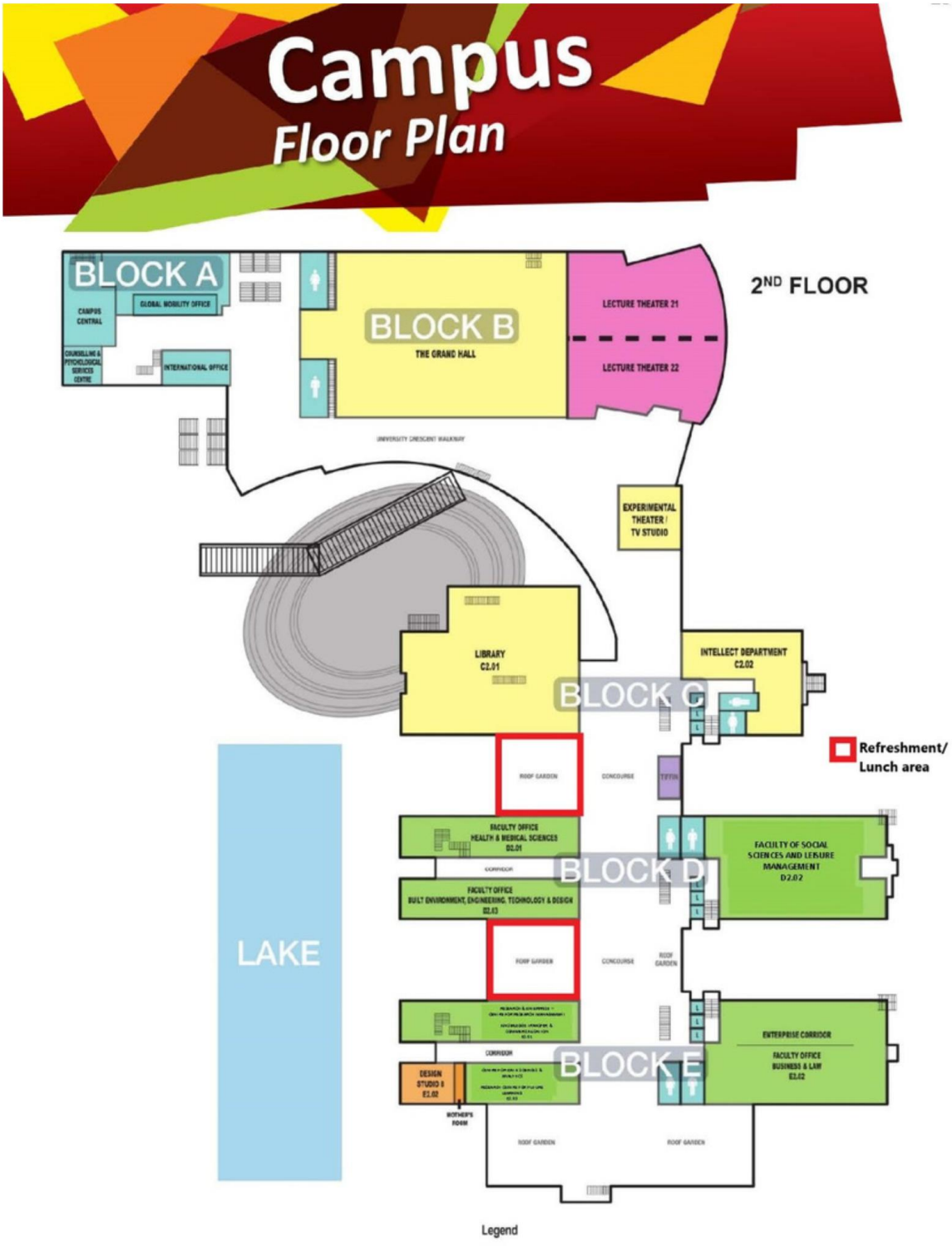

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