



# YSN-ASM INTERNATIONAL SCIENTIFIC VIRTUAL CONFERENCE (ISVC) 2021

29 March - 1 April 2021

RESILIENCE IN  
THE NEW NORMAL



FOREWORD FROM DEPUTY MINISTER OF SCIENCE, TECHNOLOGY, AND INNOVATION MALAYSIA	1
FOREWORD FROM ASM PRESIDENT	2
FOREWORD FROM CO-CHAIRS OF YSN-ASM ISVC 2021	3
ABOUT YSN-ASM INTERNATIONAL SCIENTIFIC VIRTUAL CONFERENCE 2021	5
THEME OF THE CONFERENCE	5
LIST OF YSN-ASM ORGANISING COMMITTEE	6
ACADEMY OF SCIENCES MALAYSIA	8
YOUNG SCIENTISTS NETWORK – ACADEMY OF SCIENCES MALAYSIA (YSN-ASM)	9
ASEAN YOUNG SCIENTISTS NETWORK	12
SPONSOR	13
AGENDA OF THE YSN-ASM ISVC 2021	14
PLENARY SPEAKER	17
PANEL DISCUSSION	18
TRACK A: HEALTH AND WELLBEING	23
TRACK B: BUSINESS ECONOMICS	28
TRACK C: ENGINEERING AND ENERGY TRANSITIONS	33
TRACK D: SOCIAL SCIENCES AND HUMANITIES	38
TRACK E: ENVIRONMENTAL SCIENCES AND INFORMATION TECHNOLOGY	43
TRACK F: AGRICULTURE AND FOOD SECURITY	48
 ISVC 2021 RESEARCH ABSTRACTS LISTING	
TRACK A: HEALTH AND WELL-BEING	54
TRACK B: BUSINESS ECONOMICS	65
TRACK C: ENGINEERING AND ENERGY TRANSITIONS	67
TRACK D: SOCIAL SCIENCES AND HUMANITIES	69
TRACK E: ENVIRONMENTAL SCIENCES AND INFORMATION TECHNOLOGY	74
TRACK F: AGRICULTURE AND FOOD SECURITY	77

# FOREWORD FROM DEPUTY MINISTER OF SCIENCE, TECHNOLOGY, AND INNOVATION MALAYSIA



The challenges that have come from this unprecedented pandemic have taught us many lessons, the main one being that mankind is a resilient species and can weather any storm. The year 2020 has accelerated the mainstreaming of science in the community, and scientific terms like “vaccine”, “herd immunity”, and “pandemic” are now being discussed at all levels of society as each of us play our part in this battle against COVID-19. While we embrace the new norms in our daily lives, we are also aware that our economy needs

to be supercharged in the post COVID-19 period and needs to be the main priority over the next few years.

Malaysia views this seriously and recently launched the Dasar Sains, Teknologi dan Inovasi Negara (DSTIN) 2021-2030 and the 10-10 Malaysian Science, Technology Innovation and Economy (MySTIE) Framework to enable Malaysia to achieve the status of a high-income and high-tech nation by 2030. Both initiatives will also enable Malaysians to move from being a consumer of technology to creators of technology.

The launch of the 2nd edition of the Malaysian Code of Responsible Conduct in Research (MCRCR) is timely. It will also serve as a reference code of ethics for all researchers in pursuing scientific excellence. A world-class researcher is not just about producing high impact factor journal articles, but also, most importantly, they should be equipped with ethics and accountability. I hope that this code, spearheaded by the National Committee on Research Integrity, could be implemented nationwide.

I am glad to see the collaboration between YSN-ASM and their counterparts from ASEAN Young Scientists Network, Global Young Academy (GYA) and TWAS Young Affiliates Network (TYAN). The conference is a testament to the good collaboration between the parties. Through this effort, speakers from different countries have been gathered to tackle global challenges based on different tracks encompassing health & wellbeing, business economics, engineering & energy transitions, social science & humanities, environmental sciences & information technology, as well as agriculture & food security. The topics presented are also related to the Sustainable Development Goals (SDG).

I wish all the delegates a fruitful and rewarding conference.

**YANG BERHORMAT DATUK HAJI AHMAD AMZAD HASHIM**  
Deputy Minister of Science, Technology and Innovation Malaysia



## FOREWORD FROM ASM PRESIDENT



It is undeniable that over the course of the year 2020, many areas of our lives and livelihood have been disrupted. As researchers, each of us has had to shift online not only for teaching and learning activities but also for meetings and performing research activities.

Globally, researchers are also moving toward collaborative research, thanks in part to the unified approach in developing the COVID-19 vaccines and diagnostics that took place last year. It has shown us that working in silo should be a thing of the past, and

holistic research initiatives in a collaborative ecosystem should be the way forward in order to develop innovations or solutions that are relevant, comprehensive and impactful.

The collaborative mindset is the basis for the YSN-ASM inaugural International Scientific Virtual Conference (ISVC) 2021 that has been organised virtually with the objective of providing a platform for interdisciplinary knowledge sharing, learning and networking among local scientists in Malaysia and from around the world. It also aims to identify emerging research niche areas that the global research community should champion in addressing local needs and global challenges; develop strategies to enhance the capacity and access to resources to harness the potential of the global research community; and promote sustainable research leadership amongst emerging researchers in the country. The knowledge and wisdom shared by the renowned scientists during this conference should be crystallised in producing more impactful research in future.

Ethics in research is vital to nurture an accountable researcher with credible research inputs. The 2nd Edition of the MCRCR should serve not only to our Malaysian researchers but is also relevant to all scientific and research community abroad. We hope that all participants could enhance the awareness of the importance of MCRCR to take the research inputs to new heights.

Finally, I would like to congratulate the YSN-ASM Chairperson, Dr Chai Lay Ching and YSN-ASM ISVC Co-Chairs, Associate Professor Dr Siti Sarah Othman and Associate Professor Dr Garry Kuan Pei Ern, as well as all the organising committee members for their hard work, effort and dedication to ensure the success of this conference.

My best wishes for a successful and fruitful virtual conference.

**PROFESSOR DATUK DR ASMA ISMAIL FASc**  
ASM President

## FOREWORD

### FROM CO-CHAIRS OF YSN-ASM ISVC 2021



On behalf of the Organising Committee of YSN-ASM ISVC 2021, we are pleased to WELCOME you to the 1st YSN-ASM International Scientific Virtual Conference (YSN-ASM ISVC 2021). This is the first scientific conference organised by the Young Scientist Network – Academy of Sciences Malaysia. The conference will be a bi-annual event to be organised by YSN-ASM in the future. With this year's theme as "Resilience in the new normal", the aim of this conference was to provide a platform through six (6) tracks of vast scientific fields for researchers, academicians, industry professionals and young scientists to exchange new ideas, ignite passions and initiate collaborations in the various field of sciences despite the challenges during this era of the pandemic.

We are very blessed to have YB Datuk Haji Ahmad Amzad Hashim, the Deputy Minister of Science, Technology and Innovation (MOSTI), to officiate the YSN-ASM ISVC2021. Following that, we are honoured to have the Nobel Laureate Professor Dr Lee Yuan Tseh to give his plenary lecture at this conference. In addition, this conference will also feature several interesting platforms

for participants, especially young scientists. There will be a forum with a vibrant lineup of panellists, who will be sharing their professional and personal experiences in their respective fields with the collaborations from the Global Young Academy (GYA) and the TWAS Young Affiliates Network (TYAN). Another interesting platform for young scientists in this conference will be the competition for the Young Investigator Awards (YIA) in collaboration with the ASEAN Young Scientist Network (ASEAN YSN).

In this inaugural conference, we have received over 400 abstracts, and to date, we have over 500 participants from various backgrounds and countries. All the submitted abstracts will be reviewed, and only selected abstracts will be published in the conference proceeding. Our International Editorial Board will also review several selected abstracts to be considered for publications as a full paper with participating publishers such as Elsevier and Springer. We would like to extend our gratitude and thank you to all reviewers for their expertise, dedication and transparency throughout the reviewing process.

Special appreciation to Professor Datin Paduka Dr Khatijah Yusoff FASc as the advisor of YSN-ASM. Not forgetting the wisdom and advice from ASM President, Vice President and Chief Executive Officer. Lastly, we wish that you will be benefited and please enjoy the four days of this virtual conference that will bring you six renowned

keynote speakers with one in each track and the invited speakers to share their insights and ideas to further ignite and enlighten your research journey. We also hope that you will enjoy the short video-poster lineups from the conference participants through our official YSN-ASM YouTube Channel. Please subscribe to our channel! Thank you, and hoping to meet you again in our next YSN-ASM ISVC. Do take care and stay safe!

YSN-ASM ISVC 2021 Co-chairing by

Associate Professor Dr Siti Sarah  
Othman  
& Associate Professor Dr Garry Kuan  
Pei Ern

# ABOUT YSN-ASM INTERNATIONAL SCIENTIFIC VIRTUAL CONFERENCE 2021

This inaugural virtual conference will provide a platform for interdisciplinary knowledge sharing, learning and collaboration between local scientists in Malaysia and from around the world; identify emerging research niches/areas that the global research community should champion to address local needs and global challenges; develop strategies to enhance the capacity and access to resources to harness the potential of the global research community and promote sustainable research leadership amongst emerging researchers in the country. Several concurrent tracks are also being planned for the conference:



Health and Wellbeing



Business Economics



Engineering and Energy Transitions



Social Sciences and Humanities



Environmental Sciences and Information Technology



Agriculture and Food Security

THEME OF THE CONFERENCE

## Resilience in the New Normal

# LIST OF YSN-ASM ORGANISING COMMITTEE

## Advisor:

Professor Datin Paduka Dr Khatijah  
Mohd Yusoff FASc

## Co-Chairing:

Associate Professor Dr Garry Kuan Pei Ern  
Universiti Sains Malaysia

Associate Professor Dr Siti Sarah Othman  
Universiti Putra Malaysia

## Secretary

Associate Professor Dr Nur Faeza Abu  
Kassim  
Universiti Sains Malaysia

Dr Sharifah Sakinah Syed Alwi  
Universiti Putra Malaysia

## Secretariat

Ts Dr Umaiya Munusamy  
Sayor Mine Network

Dr Rozaini Abdullah  
Universiti Putra Malaysia

## Financial and Sponsorship

Associate Professor Dr Tham Chau Ling  
Universiti Putra Malaysia

Dr Lee Sau Har  
Taylor's University

Dr Alia Farhana Abdul Ghaffar  
International Islamic University Malaysia

## Scientific

Professor Dr Denny Ng Kok Sum  
Heriot-Watt University Malaysia

Ts Dr Wan Nurul Nadiah Wan Rasdi  
Universiti Malaysia Terengganu

Dr Tan Shing Cheng  
Universiti Kebangsaan Malaysia

Dr Wan Hanna Melini Wan Mokhtar  
Universiti Kebangsaan Malaysia

Dr Vanitha Mariappan  
Universiti Kebangsaan Malaysia

Dr Lee Tze Yan  
Perdana University

Dr Gan Hong Seng  
Universiti Kuala Lumpur- British Malaysian  
Institute

Dr Nadiah Abu  
Universiti Kebangsaan Malaysia

Dr Kang Chia Chao  
Xiamen University Malaysia

Dr Sandra Maniam  
Universiti Putra Malaysia

Associate Professor Dr Mas Jaffri  
Masarudin  
Universiti Putra Malaysia

Dr Manraj Singh Cheema  
Universiti Putra Malaysia

Dr Anwar P.P. Abdul Majeed  
Universiti Malaysia Pahang

### **Track Leaders**

Associate Professor Dr Baharudin Ibrahim  
Universiti Sains Malaysia

Ts Dr Mohd Fahmy Abdullah  
Universiti Tun Hussein Onn Malaysia

Dr Ang Wei Lun  
Universiti Kebangsaan Malaysia

Ts Dr Aslina Baharum  
Universiti Malaysia Sabah

Dr Phang Kean Chang  
Pusat Perubatan Universiti Malaya (PPUM)

Dr Umaiyal Munusamy  
Sayor Mine Network

### **Technical**

Mr Shawn Keng Teck Ee  
QIAGEN Biotechnology Malaysia

Mr Ooi Ghee Chien  
Cryocord Sdn Bhd

### **Publicity & Social Interactions**

Dr Nur Fariesha Md Hashim  
Universiti Putra Malaysia

Dr Nursalwa Baharuddin  
Universiti Malaysia Terengganu

Dr Shahrul Nizam Ahmad  
Universiti Teknologi MARA

### **YSN-ASM ISVC 2021 International Advisory Committee**

Professor M. Osman Tokhi  
London South Bank University

Emeritus Professor M. S. J. Hashmi  
Dublin City University

Professor Dr Lam Su Shiung  
Universiti Malaysia Terengganu

Dr Siti Hawa Ngalim  
Universiti Sains Malaysia

Dr Azzuliani Supangat  
University of Malaya

Prof Ir Ts Dr Show Pau Loke  
Nottingham University Malaysia Campus

Dr Tan Suat Cheng  
Universiti Sains Malaysia

Ts Dr Aslina Baharum  
Universiti Malaysia Sabah

Dr Phang Kean Chang  
Pusat Perubatan Universiti Malaya (PPUM)

Prof Dr Fatin Aliah Phang  
Universiti Teknologi Malaysia

### **Academy of Sciences Malaysia**

Puan Hazami Habib (ASM CEO)

Norazwa Musiran

Hazrul Liki

Dharshene Rajayah

Laviinia Dhanagunan

Saiful Suhairi Suarni

Hendy Putra Herman

Syazwani Abu Bakar

Syed Abdul Haliq Syed Abdul Malik

Khairul Nisak Alias

Nurul Ain Asyimah

Warnida Mohd Fadzli

Muhammad Syafiq Mohamad Shafiee

Nazmi Lao

Charlin Rajoo

Ahmad Khudri Abd Razak

# ACADEMY OF SCIENCES MALAYSIA



The Academy of Sciences Malaysia (ASM) is an independent scientific organisation under the Ministry of Science, Technology, and Innovation (MOSTI). ASM strives to be the Thought leader for the nation on matters related to science, engineering, technology, and innovation. We provide a platform for the interchange of ideas among academia, policymakers, civil society, and industries. We have more than 835 experts in the disciplines of Engineering Sciences, Medical and Health Sciences, Biological and Environmental Sciences, Information Technology and Computer Sciences, Chemical Sciences, Mathematics, Physics and Earth Sciences, Science technology and development industry, and Social Sciences and Humanities. Our main activities include conducting foresight and strategic studies and spearheading strategic science-based programmes nationally, regionally, and globally. Our ethos is “Think Science, Celebrate Technology, Inspire Innovation”,

## We Strive

To be the ‘Think Tank’ of the nation for matters related to science, engineering, technology, and innovation

To pursue excellence in the fields of science, engineering, and technology for the benefit of all

## Mission

To be a thought leader

To be an apex advisory body on STI matters

To be an effective promoter of public understanding and awareness of STI

To make STI a basis for economic development and societal well being

## Functions

To provide advice to the Government on matters related to STI of national importance

To foster a culture of excellence in science, engineering, and technology in Malaysia

To assist in upgrading the technological capabilities of the Malaysian industrial sectors

To promote public awareness for a greater understanding of science

To collaborate and establish networks at the national level

To encourage and facilitate scientific publications

# YOUNG SCIENTISTS NETWORK – ACADEMY OF SCIENCES MALAYSIA (YSN-ASM)



Contemporary scientific challenges often benefit investigators with diverse backgrounds and expertise. Thus, the bringing together of talented young scientists creates new opportunities for better solutions to both national and international challenges. Furthermore, the exchange of best practices amongst young scientists across disciplines could further expand the opportunities for the career development of young scientists in any country. To achieve this, there is a need for a strong platform where top young scientists can interact, coordinate, and organize to meet these challenges. The Task Force on the ASM Lindau Programme Alumni proposed the establishment of a network of young scientists, Young Scientist Network-Academy of Sciences Malaysia (YSN-ASM).

## The goals of YSN-ASM include:

- to represent the voice of young Malaysian scientists on national and international issues and give them a platform to influence policy decisions

- to facilitate networking opportunities among young and senior scientists to exchange knowledge and experiences

- to engage young scientists to be involved in addressing national issues using scientific knowledge and technology through interdisciplinary approaches and

- contribute towards the development of scientific capacity and awareness in Malaysia.

- to promote career in science as the choice for young people to ensure scientific progress and sustainability in the country.

At a global level, YSN-ASM has linked up with the Global Young Academy of Sciences as well as other young academies to provide opportunities for Malaysian young scientists to interact internationally with other young scientists.

YSN-ASM was taken from the concept to crystallisation by a dedicated team of young scientists working with ASM and was officiated at the YSN-ASM Inaugural Colloquium in December 2012. YSN-ASM intends to function as a National Young Academy (NYA) that will link to Global Young Academy (GYA). Hence, there is still a lot of work to be done to ensure that the foundation that YSN-ASM has been built on remains solid and relevant. **To date, YSN-ASM consisted of 84 members and 111 affiliates from various disciplines and institutions.**

YSN-ASM membership is stringent and objective based on ASM's Top Research Scientists Malaysia (TRSM) criteria. YSN-ASM aims to create a network of young Malaysian scientists who are not only excellent in their field of study but also



demonstrate a passion to contribute to society and collaborate with colleagues from diverse fields and background. YSN-ASM aims to inspire the future generation of scientists as well as early career scientists to work together as affiliate members towards ensuring the success of YSN-ASM programmes. While we aim to inspire scientific excellence, we aim to organise our activities to be as inclusive as possible.

Young Scientists Network - Academy of Sciences Malaysia is intended to function as National Young Academy (NYA) that will link to Global Young Academy (GYA). More specific motivations for the establishment of such young academies can be summarized as follows:

### **Global Awareness and Support**

The concept of bringing together top young scientists has earned support from international scientific organizations and bodies including the InterAcademy Panel (IAP), Leopoldina (German Academy of Sciences), World Economic Forum, The Academy of Sciences of the Developing World (TWAS), UNESCO, Alfred Krupp von Bohlen and Halbach-Stiftung, etc.

Successful examples of NYA's exist in Germany, Netherlands, Thailand, and Japan.

The YSN-ASM will link to the growing global network of NYA's, including GYA, which will provide opportunities for young scientists to interact globally with other young scientists.

The YSN-ASM will provide visibility and recognition to outstanding young scientists both nationally and internationally through

their affiliation with the National and the Global Young Academies.

### **A Bridge between the Young and Senior Scientists**

The YSN-ASM will promote mentorship by senior scientists comprising ASM Fellows and others for sustainability of the scientific community.

The YSN-ASM will provide a source of talented young scientists that senior scientists can draw on for research collaborations, policy consultation, and other activities.

### **Promote Interdisciplinary Collaboration and Representation**

The YSN-ASM will provide a platform for young scientists from a wide range of disciplines to interact and collaborate both nationally and internationally.

The YSN-ASM will encourage interdisciplinary research among young scientists nationally, thereby fostering this culture early in their careers.

The YSN-ASM will promote the 1Malaysia concept through ethnic, cultural and gender equality and diversity amongst young scientists.

### **A Symbol of Scientific Excellence**

The YSN-ASM will identify and bring together the very best young scientists to champion innovation and excellence in national scientific research.

The YSN-ASM will be a future source of talented senior scientists to increase the national scientific capacity.

The YSN-ASM will provide role models and motivation for future scientists in training at high schools and universities.

The YSN-ASM will reward and promote excellence among young scientists.

### **National Development of Science, Technology, and Innovation (STI)**

The YSN-ASM will encourage collaborative, multi-disciplinary research activities among national and international young scientists.

The YSN-ASM will initiate activities aimed at identifying and promulgating best practices and excellence in scientific research.

The YSN-ASM activities will spark the interests of a younger generation to pursue science as career.

### **Contribution to National Science Policy**

The YSN-ASM will represent the voice of young scientists on national and international issues.

The YSN-ASM will encourage debate and discussion on national and regional science policies.

The YSN-ASM will promote science education to increase the understanding of science by the general public.

## **YSN-ASM's Strategic Plan 2018-2021:**

### **SP1: Researchers**

Empowering young researchers as strategic partners and agents of change in shaping the national research agenda.

### **SP2: Research Ecosystem**

Fostering integrity and research excellence support network throughout the ecosystem.

### **SP3: Progressive Society**

Building a progressive society that embraces Science, Technology and Innovation as a way of life.

### **SP4: Globalisation**

Playing a prominent role in international and local alliances to tackle national and global challenges.

# ASEAN YOUNG SCIENTISTS NETWORK



ASEAN future research competitiveness requires greater empowerment of young ASEAN researchers as leaders who can champion their national research and innovation agenda. There needs to be greater cohesion and collaboration between young researchers from various ASEAN member states to shape a collective regional research and innovation agenda that will also enhance the impact of existing ASEAN initiatives. In recognition of these needs, the ASEAN Young Scientists Network (ASEAN-YSN) was officially launched on the 19th of October 2019 in conjunction with the 75th ASEAN Committee on Science and Technology Meeting in Cebu, the Philippines.

The ASEAN Network of Young Scientists is the official ASEAN platform for the young scientific (including social science, law, arts, humanities etc.) community to advance science in ASEAN. The ASEAN-YSN's primary aim is to create a platform to engage, train and empower a new generation of ASEAN Young Leaders who will champion the region's scientific progress and interest. The objectives of ASEAN-YSN include:

- to promote leadership among young researchers to enable them to be the next leaders in STI

- to enhance the interactions and collaborations among young researchers; especially in areas that are pertinent to ASEAN

- to encourage the sharing and optimizing of research resources among ASEAN members states to minimize redundancy and maximize efficiency

- to focus priority research areas to tackle regional problems by co-developing common goals set by young scientists from ASEAN state members

- to embed research integrity as a cornerstone to research excellence and progress in ASEAN

- to improve the dissemination of research information, updates and opportunities amongst ASEAN researchers

To achieve these objectives, ASEAN-YSN partners with various national and international organisations to conduct various flagship programmes such as the ASEAN Emerging Researchers Conference, ASEAN Science Leadership Programme, ASEAN Online Collaborative Platform, ASEAN Responsible Conduct of Research Project and the ASEAN Pioneering Intellectual Property Programme for Young Researchers in ASEAN.

## SPONSORS

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# AGENDA OF THE YSN-ASM ISVC 2021

OPENING CEREMONY 29 MARCH 2021		
TIME	AGENDA	
1430-1500	Online Registration	
1500-1510	Emcee starts and Doa recitation	
1510-1520	Opening remark by Professor Datuk Dr Asma Ismail FASc, ASM President	
1520-1530	Officiating Speech & Launch of the 2 <sup>nd</sup> Edition Malaysian Code of Responsible Conduct In Research by YB Datuk Haji Ahmad Amzad Bin Hashim, Deputy Minister of Science, Technology and Innovation	
1530-1630	Plenary Lecture by Nobel Laureate Professor Lee Yuen Tseh, ASM Honorary Fellow	
1630-1635	Evening break	
1635-1735	Panel discussion Moderator: Dr Vanitha Mariappan (YSN-ASM/ UKM) Panellists: Dr Amalina Che Bakri (Imperial College London) Professor Dr Abdel-Massih Roula (TYAN/ University of Balamand Lebanon) Dr Zaid Omar (YSN-ASM/UTM) Professor Dr Lahcen El Youssfi (GYA/ Sultan Moulay Slimane University (SMS University))	
DAY 1: 30 MARCH 2021		
TIME	TRACK A: HEALTH AND WELLBEING	TRACK B: BUSINESS ECONOMICS
1500-1530	Keynote Speaker 1 Professor Datuk Dr A Rahman A Jamal FASc (Universiti Kebangsaan Malaysia)	Keynote Speaker 1 Francisco Córdoba Otálora (NaaS Digital Banking)
1530-1550	Speaker 1 Academician Distinguished Professor Datuk Dr Looi Lai Meng FASc (Universiti Malaya)	Speaker 1 Professor Mahendhiran Sanggaran Nair FASc (Sunway University)
1550-1610	Speaker 2 Professor Dato’ Dr Adeeba Kamarulzaman FASc (Universiti Malaya)	Speaker 2 Associate Professor Dr Nanthakumar Loganathan (Universiti Teknologi Malaysia)
1610-1620	BREAK	
1620-1640	Speaker 3 Professor Dr Shankar Esaki Muthu (Central University of Tamil Nadu)	Speaker 3 Alexandra Kodjabachi (PersEd)

1640-1700	Speaker 4 Dr Jeyanthi Suppiah (Institute for Medical Research) (IMR)	Speaker 4 Professor Dr Krista Danielle Yu (De La Salle University Philippines)
1700-1730	Young Investigator Pitching Session A (3 min pitching)	Young Investigator Pitching Session B (3 min pitching)
<b>DAY 2: 31 MARCH 2021</b>		
<b>TIME</b>	<b>TRACK C: ENGINEERING AND ENERGY TRANSITIONS</b>	<b>TRACK D: SOCIAL SCIENCES AND HUMANITIES</b>
1500-1530	Keynote Speaker 1 Professor Dato Dr Shamala Subramaniam (Universiti Putra Malaysia)	Keynote Speaker 1 Dr Voo Teck Chuan (National University of Singapore)
1530-1550	Speaker 1 Professor Ir Dr Show Pau Loke (University of Nottingham Malaysia)	Speaker 1 Dr Sharon Kaur (Universiti Malaya)
1550-1610	Speaker 2 Professor Dr Li Xiao Chao (Xiamen University Malaysia)	Speaker 2 Yelena Novikova (Independent Expert, Kazakhstan)
1610-1620	BREAK	
1620-1640	Speaker 3 Professor Susan Krumdieck (University of Herriot Watt)	Speaker 3 Professor Dr Fatin Aliah Phang (Universiti Teknologi Malaysia)
1640-1700	Speaker 4 Professor Hyun Myung (Korea Advanced Institute of Science and Technology)	Speaker 4 Associate Professor Dr Garry Kuan (Universiti Sains Malaysia)
1700-1730	Young Investigator Pitching Session C (3 min pitching)	Young Investigator Pitching Session D (3 min pitching)
<b>DAY 3: 1 APRIL 2021</b>		
<b>TIME</b>	<b>TRACK E: ENVIRONMENTAL SCIENCES AND INFORMATION TECHNOLOGY</b>	<b>TRACK F: AGRICULTURE AND FOOD SECURITY</b>
1500-1530	Keynote Speaker 1 Professor Ir Dr Ismail Musirin (Universiti Teknologi MARA)	Keynote Speaker 1 Professor Dr Wong Mui Yun (Universiti Putra Malaysia)
1530-1550	Speaker 1 Professor Dr Michael Angelo B. Promentilla (De La Salle University Philippines)	Speaker 1 Professor Dr Asgar Ali (University of Nottingham Malaysia)

1550-1610	Speaker 2 Dr Jeyanny Vijayanathan (Forest Research Institute Malaysia - FRIM)	Speaker 2 Dato' Dr Madeline Berma FASc (Academy of Sciences Malaysia)
1610-1620	BREAK	
1620-1640	Speaker 3 Associate Professor Dr Ag Asri Ag Ibrahim (Universiti Malaysia Sabah)	Speaker 3 Dr Roslina Ali (Malaysian Agricultural Research and Development Institute - (MARDI))
1640-1700	Speaker 4 Associate Professor Ir Dr Rosdiadee Nordin (Universiti Kebangsaan Malaysia)	Speaker 4 Dr Tan Ju Lin (MATRIUX (M) SDN BHD)
1700-1730	Young Investigator Pitching Session E (3 min pitching)	Young Investigator Pitching Session F (3 min pitching)
1730-1740	BREAK	
1740-1750	Closing Ceremony Wrap- up Remark by Associate Professor Dr Siti Sarah & Associate Professor Dr Garry Kuan, Co-Chairs of YSN-ASM ISVC 2021 Closing Speech by Professor Dato' Ir Dr A. Bakar Jaafar FASc, ASM Vice President	
1750-1800	Announcement of Winners Young Investigator Award for Tracks: Health and Wellbeing Business Economics Engineering and Energy Transitions Social Sciences and Humanities Environmental Sciences and Information Technology Agriculture and Food Security	
1800	Adjourn	

# PLENARY SPEAKER

## Survival of Humanity on Earth



**NOBEL LAUREATE  
PROFESSOR LEE YUAN  
TSEH**

**ASM Honorary Fellow**

Professor Yuan Tseh Lee received his BS from Taiwan University in 1959, MS from Tsing Hua University in 1961, and Doctorate from UC-Berkeley in 1965. He joined Dudley Herschbach's group at Harvard as a research fellow in 1967. After being appointed Assistant Professor at the University of Chicago in 1968, Professor Lee rapidly made his laboratory a major centre for molecular beam study in North America. In 2008, he was elected president of the International Council for Science (ICSU) and took up the appointment in 2011 for three years. Professor Lee has received numerous awards and honours, including the 1986 Nobel Prize in Chemistry, the US National Medal of Science, Faraday Medal, and Prize from the Royal Chemical Society of Great Britain. He is a fellow of the US National Academy of Sciences, a foreign member of Göttingen Academy of Sciences, Indian National Academy of Sciences, Japan Academy, Korean Academy of Science and Technology, Royal Swedish Academy of Engineering Sciences, and The World Academy of Sciences. Professor Lee has received Doctor Honoris Causa from 42 universities throughout the world.



## PANEL DISCUSSION

# How COVID-19 pandemic transformed the way the world does science together & the way forward



### MODERATOR: DR VANITHA MARIAPPAN

YSN-ASM / Universiti  
Kebangsaan Malaysia

Dr Vanitha Mariappan is an experienced researcher and has completed her Doctor of Philosophy in Medical Microbiology (bacterial pathogenesis) with distinction from the Faculty of Medicine, University of Malaya (UM). During her PhD research, she was awarded the National Science Fellowship by the Ministry of Science, Technology and Innovation (MOSTI). She was granted the UM Bright Sparks Fellowship for her post-doctoral research. Dr Mariappan received numerous awards, including the ASEAN-Korea Exchange Fellowship Programme and Australia-APEC Woman in Research Fellowship. She was also selected as a Young Investigators Presentation recipient at the European Melioidosis Congress held at the University of Cambridge, United Kingdom, and awarded the Young Woman in Health and Medical Sciences Award (Medical Microbiology Category) by Venus International Women Awards Foundation, India. She and her team were recently awarded the Wellcome Trust Small Grant Award in Humanities and Social Science. She is now attached to the Centre for Toxicology & Health Risk Studies (CORE), Faculty of Health Sciences, Universiti Kebangsaan Malaysia (UKM).



**PANELLIST 1:**  
**PROFESSOR DR**  
**LAHCEN EL YOUSSEFI**

**GYA / Sultan Moulay Slimane  
University**

As a professor of Agro-biology and Natural Resources Management, Professor Dr Lahcen El Youssfi is responsible for the training programme on agriculture and rural development. He is the head of the Environmental Engineering and Agrobiotech Department. He is a member of the research group on Environment and Natural Resources Management in his institution and a member of the Plant Biotechnology and Sustainable Natural Resources Management Laboratory belonging to the Pluridisciplinary Faculty of Benimellal, SMS University. His focus is on developing the application of bio-ecological, technical and economic principles for sustainable agro-ecosystems management (Soil, Water and Plant continuum). He combines the work on many research aspects; for example, the research he conducted in an international context project: SWUP-MED (Sustainable Water Use Securing Food Production in Dry Areas of the Mediterranean region), with activities related to food security, integrated water management and climatic change prevention. Dr Lahcen joined the Global Young Academy as a member in 2017 and was elected in its leadership as an Executive Committee member for the 2020-2021 term. He is an affiliate of the African Academy of Sciences AAS for the period 2017-2021. He is coordinating the AAS Affiliates working group on Agriculture, Food Security and Nutrition Sciences.



**PANELLIST 2:**  
**PROFESSOR DR ABDEL-**  
**MASSIH ROULA**

**TYAN / University of Balamand  
Lebanon**

Roula M. Abdel-Massih obtained her PhD in Biological Sciences from the University of Glasgow (2001). Her primary research focus is on the identification of bioactive (antibacterial and anti-proliferative) components in plant extracts. She currently serves as a professor at the University of Balamand, Lebanon. She was elected as a TWAS Young Affiliate (2011-2015) and is a member of different professional societies such as OWSD, TYAN, and ASFFBC. Her track of publication includes more than 35 papers in reputed international journals and has conference proceedings in around 50 International conferences. Dr Roula was selected by The New York Academy of Sciences and the STS to participate in the 2015 Future Leaders programme in Japan. She was elected as an education fellow in the US National Academies in the Life Sciences (2015-2016), obtained a Certificate of Completion for the APLD Program at Harvard, and granted the TYAN Collaborative Grant Award. She is an IFBA Certified Professional in Biorisk Management.



**PANELLIST 3:**  
**DR AMALINA**  
**CHE BAKRI**

Imperial College London

Dr Amalina Bakri is a General Surgeon (Specialist Trainee) and a Clinical Research Fellow at the Institute of Global Health Innovation, Department of Surgery and Cancer, Imperial College London. She graduated as a medical doctor (MBChB) from Edinburgh Medical School in 2013. She completed BMedSc in Pharmacology with ERASMUS exchange at Leiden University, The Netherlands. She did a sub-internship at Harvard Medical School, USA, followed by a housemanship (FY1-FY2) in Cambridge. She also completed her Master's in Translational Medicine and Therapeutics from the University of Cambridge during her housemanship years. Dr Amalina moved to London to do her surgical training. She won a Clinical Research Fellowship as one of Darzi Fellows at Imperial College London. Additionally, she is an academic supervisor for BSc and MEng students at Imperial College London.



## PANELLIST 4: DR MOHD ZAID OMAR

YSN-ASM / Universiti Teknologi  
Malaysia

Dr Mohd Zaid completed his PhD at Imperial College London in 2012 and his Master's degree from the University of Sheffield in 2008. Currently, he is a senior lecturer at the School of Electrical Engineering, Universiti Teknologi Malaysia (UTM). Prior to that, he was an engineer with a security consultancy firm in Kuala Lumpur. His primary research interests are image processing, medical imaging, and artificial intelligence. He has managed almost RM500,000 in research grants and has collaborated closely on various projects with The National Heart Institute (IJN) and The Malaysian Palm Oil Board (MPOB). He has published over 40 works in the field with an h-index of 6. Dr Zaid is the winner of FameLab Malaysia and Euraxess Prize 2017 and has been a regular volunteer for FameLab activities since 2015. He is an affiliate member of the Young Scientists' Network (YSN-ASM). After his FameLab win, he has appeared in numerous interviews on television and radio and has been facilitating science communication workshops in various parts of Malaysia.

## TRACK A: HEALTH AND WELLBEING



### KEYNOTE SPEAKER PROFESSOR DATUK DR A RAHMAN A JAMAL FASc

Universiti Kebangsaan Malaysia

### Precision Medicine: Challenges and Opportunities

Professor Datuk Dr A Rahman is a professor of paediatric haematology, oncology and molecular biology at Universiti Kebangsaan Malaysia. He was the founding director and now a senior principal research fellow of the UKM Medical Molecular Biology Institute (UMBI). He is the project leader for The Malaysian Cohort and the Cohort Biobank, the largest in South-East Asia. He currently serves as the Pro-Vice-Chancellor for the UKM Kuala Lumpur campus (2017-2021). His research interests include cancers, other non-communicable diseases, and cohort studies. One of his latest projects is The Cancer Genome Atlas Malaysia for colorectal cancer. Dr A Rahman is the chairman of the National Stem Cell Committee for Ethics in Research and Therapy, Ministry of Health (MOH). He is also a committee member for the Thalassaemia Control Programme (MOH) and the National Clinical Trials Committee MOH. He is a fellow of the Academy Sciences of Malaysia and heads a task force for a Precision Medicine Initiative. During the COVID-19 pandemic, he is the chairman of a task force for the MOHE-MOSTI collaboration to set up COVID-19 testing labs in the universities to increase MOH's capacity samples.



**SPEAKER 1**  
**ACADEMICIAN**  
**DISTINGUISHED**  
**PROFESSOR DATUK**  
**DR LOOI LAI MENG FASc**

Universiti Malaya

## **Precision Medicine in Global Healthcare: The Role of Diagnostics**

Academician Datuk Professor Dr Lai-Meng Looi is Malaysia's inaugural National Distinguished Professor, positioned at the Faculty of Medicine, University of Malaya (UM). She holds a concurrent appointment as a senior consultant histopathologist at its teaching hospital. Professor Looi studied medicine at the University of Singapore, trained in Surgical Pathology at UM, Royal Postgraduate Medical School (UK) and Brigham and Woman's Hospital (USA) and defended her research doctorate at UM. During her long academic career at UM, she has chaired the Medical Centre Research Committee, the Medical Research Ethics Committee/ Institutional Review Board, the Hospital Medical Advisory Committee, UM's Committee for External Academic Evaluators (Science), and served on the Malaysian Medical Council.

Professor Looi is a Foundation Fellow of the Academy of Sciences Malaysia. She co-chaired the InterAcademy Partnership for Health for two elected terms (2010-2016) and currently represents ASM on its Executive Committee. During her terms as co-chair, IAMP extended its initiatives into global health, the social determinants of health, urban health, and young physician leadership capacity-building.



**SPEAKER 2**  
**PROFESSOR DATO' DR**  
**ADEEBA**  
**KAMARULZAMAN FASc**

Universiti Malaya

## Precision Medicine and Infectious Diseases: Lessons Learnt from the COVID-19 Pandemic

Professor Adeeba graduated from Monash University in 1987 and trained in internal medicine and infectious diseases at the Monash Medical Centre and Fairfield Infectious Diseases Hospital, Melbourne, Australia. She is presently the Dean of the Faculty of Medicine, University of Malaya. She established the Centre of Excellence for Research on AIDS (CERiA) that conducts multi-disciplinary research on HIV ranging from clinical to public health and policy research.

Professor Adeeba has used her clinical and academic leadership to engage in the national and community response to HIV/AIDS. She is currently Chairman of the Malaysian AIDS Foundation and an Executive Council member of the Malaysian AIDS Council, the peak HIV NGO in Malaysia. She has also been an advisor to numerous WHO committees on HIV/AIDS. She has played a key role in the establishment and ongoing activities and collaborations of a regional HIV research network initiative, TREAT Asia. Professor Adeeba's achievements have been recognised through several national and international awards, including the Tun Mahathir Science and the Merdeka Awards for her role as a member of the University of Malaya's Nipah Investigative Team.





**SPEAKER 3**  
**PROFESSOR DR**  
**SHANKAR ESAKI**  
**MUTHU**

Central University of Tamil Nadu

## Targeting Immune Check Point Signatures in Chronic Infections

Dr Shankar is a Professor of Life Sciences (Pathogenic Microbiology) at the Central University of Tamil Nadu, India. He underwent post-doctoral training at the Department of Clinical and Experimental Medicine, Linköping University, Sweden, before joining the Department of Medical Microbiology, Faculty of Medicine, the University of Malaya as an Associate Professor in 2011. He is an FRBS at the Royal Society of Biology, London, and an FRCPath of the Royal College of Pathologists, UK.

Dr Shankar has published over 135 peer-reviewed publications in leading medical journals. He receives several research grants and is actively engaged in research on microbial pathogenesis involving *Burkholderia cepacia* and certain chronic bacterial and viral infectious diseases. He is the Associate/Academic Editor of the Frontiers in Immunology, Frontiers in Microbiology, PLoS ONE, BMC Infectious Diseases, and BMC Immunology journals.



**SPEAKER 4**  
**DR JEYANTHI SUPPIAH**

**Institute for Medical Research**

## **Utility of Whole Genome Sequencing in Complementing Epidemiological Investigation and Public Health Intervention of COVID-19**

Dr Jeyanthi Suppiah obtained her PhD in Medical Microbiology at Universiti Putra Malaysia (UPM). Her primary research interests are the application of molecular biology techniques and bioinformatics data analysis for the identification of medically important viruses. Presently, she is a Senior Research Officer in the Virology Unit, Institute for Medical Research (IMR), Ministry of Health Malaysia. She now leads the research work on whole-genome sequencing of SARS-CoV-2 from active clusters of COVID-19 in Malaysia. Dr Jeyanthi received Dr Wu Lien-Teh Young Investigator Award (Merit) in 2020.

## TRACK B: BUSINESS ECONOMICS



### KEYNOTE SPEAKER FRANCISCO CÓRDOBA OTÁLORA

NaaS Digital Banking

### Provide Digital Access to Credit for Small and Medium Enterprises to Reactivate the Economy

Francisco is a business administrator with more than 14 years developing technology businesses worldwide and was recognised as a distinguished professional by the Colombian association of business managers. He founded software companies, Wesend in Singapore (Blockchain-based app) and Seed Software (Colombia). He is now the CEO of NaaS Digital Banking, a plug and play platform to build fintech products.

MIT Technology Review named him one of the Innovators under 35 for the development and implementation of the first semi-stable cryptocurrency in the world. He is recognized by St Gallen Symposium (Switzerland) as one of the leaders of the future. He is also the presenter of the podcast on science, technology & society known as #PachoenVivo. Francisco authored Beat the Robots, a book discussing the implications of artificial intelligence in the future of work, and Change the Game, where he discusses the potential of the technological singularity in developing countries.



**SPEAKER 1**  
**PROFESSOR DR**  
**MAHENDHIRAN**  
**SANGGARAN NAIR FASc**

Sunway University

## **Economic Competitiveness and Sustainability Amidst Global Uncertainty and Volatility**

Professor Mahendhiran Sanggaran Nair is the Pro-Vice-Chancellor (Research Engagement & Impact) at Sunway University, Malaysia. He is a Fellow of the Academy of Sciences Malaysia and a member of the National Science Council of Malaysia. He is trained as an econometrician and data scientist. He holds a Bachelor of Science (Honours) degree in Mathematics from Brock University, Canada; MA in Statistics, MA in Economics and PhD in Economics with a specialisation in Econometrics from York University, Canada. His research interests are in economic & technology policy modelling and development economics.

Professor Mahendhiran has been a subject matter expert for government agencies, public policy organisations, industry associations and 'think-tanks' in Malaysia and the Middle East. He has also led translational research that has benefitted many community organisations and vulnerable groups in Malaysia. Among them include the adoption of computers among 22,000 school children from poor families across Malaysia. He is acknowledged as the 100 Most Inspirational LinkedIn Icons in Malaysia in 2019.



**SPEAKER 2**  
**ASSOCIATE PROFESSOR**  
**DR NANTHAKUMAR**  
**LOGANATHAN**

Universiti Teknologi Malaysia

## **How Far Worldwide Tourism Industry Survive during the Post-pandemic of COVID-19**

Dr Nanthakumar is an Associate Professor at Azman Hashim International Business School, Universiti Teknologi Malaysia (UTM). His current research interests mainly focus on Applied Time Series Econometrics related to Development Economics, Tourism Economics, Environmental, Labor and Resource Economics. He has published numbers of scholarly journal articles and appointed as an invited reviewer for numbers of scholarly journals worldwide, and ranked one of the top authors under REPEC.

Dr Nanthakumar has been appointed as visiting professor in Indonesia, Vietnam and India. He has contributed his expertise to several national government policy developments, mainly the National Rural Development Plan and TVET Education Development Plan.



**SPEAKER 3**  
**ALEXANDRA**  
**KODJABACHI**

PersEd

## **A Mental Map of Resilience: Mindset Before Business**

Alexandra is the Founder and CEO of PersEd, a talent development enterprise, nurturing 21st century skills and mindset to empower individuals to be who they are and all they can become. As a consultant, learning designer, coach, and facilitator, she collaborates with individuals and organisations to leverage the power of individual potential and collective wisdom. Passionate about her multiple projects, Alexandra loves to create collaborative endeavours that impact the lives of people. From global conferences like the World Youth Forum to university symposiums and ceremonies, her speaking engagements across platforms help her spread her thoughts about the paradigmatic shift in thinking patterns and lifelong learning.

As the Connection Creator, she is constantly exploring the breadth and depth of multidisciplinary and putting connections at the service of creativity, performance, and foresight to reinvent how we learn, think, work, and live. Alexandra has been recognised as a MENA Leadership Academy fellow (2016-2017), G20 Young Global Changer (2017), UNLEASH Global Talent (2018), and UNESCO APCEIU Youth Leader (2019).



**SPEAKER 4**  
**PROFESSOR**  
**DR KRISTA DANIELLE**  
**YU**

De La Salle University Philippines

## **MSMEs as Growth Vehicle in the New Normal**

Dr Krista Danielle Yu is a full professor in the School of Economics of De La Salle University. Her research activities focus on the development of quantitative models for disaster risk and vulnerability analyses, as well as on the economic impact of natural disasters. She also works on the application of input-output modelling techniques on sustainability and transportation issues. She has been a visiting researcher at the University of Derby, UK and George Washington University, USA.

Dr Yu has published more than 40 journal articles and has an h-index of 11 (Scopus). In 2016, she was recognized by Thomson Reuters as the "Philippines' Promising Star in Economics and Business" for producing world-class research in her field. In 2017, she received the Philippine National Academy of Science and Technology (NAST) Outstanding Young Scientist Award in Economics. Recently, she also received the NAST Outstanding Scientific Paper Award.

## TRACK C: ENGINEERING AND ENERGY TRANSITIONS



### KEYNOTE SPEAKER PROFESSOR DATO DR SHAMALA SUBRAMANIAM

Universiti Putra Malaysia

### Reengineering Sports Norms with the Parallel Evolutions of IoT Ecosystems

Professor Dato' Dr Shamala Subramaniam is a Professor in the Department of Communication Technology and Networks, Faculty of Computer Science and Information Technology, Universiti Putra Malaysia. She serves as the Chairman for PhD and Master's Thesis Supervisory Committee. She has authored chapter(s) in book and lecture series. She is also a Member of Editorial Advisory Board in national and international journals.

Dr Shamala is the Vice President of the Olympic Council of Malaysia, a board member of the National Sports Institute, Deputy President of the Malaysian Hockey Confederation and an Executive Member of the Asian Hockey Federations. She has also served as the Director of the Sports Academy, Universiti Putra Malaysia for eight years.





**SPEAKER 1**  
**PROFESSOR IR DR**  
**SHOW PAU LOKE**

University of Nottingham  
Malaysia

## Latest Developments of Biorefinery Technology in the Bioenergy Industry

Professor Ir Ts Dr Pau-Loke Show is a Professor at the Department of Chemical and Environmental Engineering, Faculty of Science and Engineering, University of Nottingham, Malaysia. He currently is a Professional Engineer registered with the Board of Engineer and Chartered Engineer of the Engineering Council UK and Professional Technologies registered from Malaysia Board of Technologists.

Since he started his career in 2012, Dr Show has received numerous prestigious domestic and international academic awards, including ASPIRE Malaysia Award 2020, Nation Young Scientist 2019 Award, and Asia's Rising Scientists Award 2017. He has been recently awarded as 8 Top Peer Reviewer 2019 powered by Publons (Top 1% of Reviewers in Global Top Peer Reviewer Awards in Engineering, Global Top Peer Reviewer Awards in Cross-Field, Global Top Peer Reviewer Awards Chemistry, Global Top Peer Reviewer Awards in Biology and Biochemistry, Global Top Peer Reviewer Awards in Agricultural Sciences).



**SPEAKER 2**  
**PROFESSOR DR**  
**LI XIAO CHAO**

**Xiamen University Malaysia**

## **The Trend on Mini-LED Dimming Driver Chip Design for LCD Display**

Dr Li Xiao Chao is a Professor and the Head of Department in Electrical and Electronics Engineering (Hons) of Xiamen University Malaysia, the Director of Fujian Key University Laboratory of IC Design and Measurement, the Vice Director of Fujian IC R&D Engineering Center.

Dr Li Xiao Chao is the IET Chartered Engineer and the IEEE SSCS/CAS Society senior member. His research interests include Artificial Intelligence, Mixed-Signal Integrated Circuit Design, Parallel & Distributed Processing and Embedded systems. He has authored over 60 research papers, 11 Patent of Invention (1 US Patent), five software and three Integrated Circuit Layout Copyright. He is the 1st author of the book Mixed-signal CMOS Integrated Analog-to-Digital Converter Design by Tsinghua University Press.



**SPEAKER 3**  
**PROFESSOR DR SUSAN**  
**KRUMDIECK**

Heriot-Watt University

## Transition Engineering, Building a Sustainable Future

Professor Krumdieck rose through the ranks at Canterbury University since 2000, becoming the first woman promoted to full professor in engineering in 2014. In 2019, she focused on developing engineering methods and innovative technologies for adaptation to reduced fossil fuel production and consumption. She is an expert in developing new ideas for achieving decarbonisation in transportation systems and urban regeneration. Her visionary contributions involve re-colonising the urban built environment and transportation activity systems by developing new GIS and modelling methods that combine diverse aspects of urban systems. Her research group has produced ground-breaking ideas about engineering development policy and community vision by communicating new ways about the history and the long-term future.

Professor Krumdieck has more than 160 peer-reviewed publications, supervised a total of 29 PhD students, and been awarded over USD 7 million in research grants. Her latest MBIE-funded research project has received two Gold ratings. Her PBRF ranking is A (Top 15% of researchers in NZ). She serves on the editorial board for six journals, including *Energies*, *Energy Conservation & Management* and *Biophysical Economics*. She serves on the Scientific Advisory Board, Regional Center for Energy and Environment Sustainability (RCEES) Africa Centers of Excellence.



## SPEAKER 4 PROFESSOR DR HYUN MYUNG

Korea Advanced Institute of  
Science and Technology (KAIST)

## Intelligent Robot Navigation for Smart Cities

Professor Hyun Myung received his BS, MS, and PhD (Electrical Engineering) from the Korea Advanced Institute of Science and Technology (KAIST), Korea. He currently serves as Professor for the Department of Civil and Environmental Engineering, KAIST and the Head of the KAIST Robotics Program. His current research interests include robot navigation, SLAM (simultaneous localisation and mapping), SHM (structural health monitoring), machine learning, AI, and swarm robots.

Professor Hyun Myung was a CTO and the Director of the Digital Contents Research Laboratory, Emersys Corporation, Daejeon, from 2002 to 2003, and a Principle Researcher with the Samsung Advanced Institute of Technology, Korea, from 2003 to 2008. He led the development of the world-first robots such as JEROS (Jellyfish removal robot) and wall-climbing drone, and Mole-bot.

## TRACK D: SOCIAL SCIENCES AND HUMANITIES



### KEYNOTE SPEAKER DR VOO TECK CHUAN

National University of Singapore

### Ethics and Global Health Inequities

Dr Voo Teck Chuan is an Assistant Professor at the Centre for Biomedical Ethics, Yong Loo Lin School of Medicine, National University of Singapore. His research is on ethical issues in healthcare and public health (focusing on epidemic response and preparedness). He is an editorial board member of the Asian Bioethics Review, Springer Nature Philosophy, and Medicine book series.

Dr Teck Chuan directs CBmE's role as a World Health Organization (WHO) Collaborating Centre for Bioethics. He is an appointed member of the Ng Teng Fong General Hospital and Jurong Community Hospital Clinical Ethics Committee; Ministry of Health (MOH) Assisted Reproduction Services Working Committee; National Healthcare Group Research Ethics Committee; MOH Advisory Committee on Restricted Human Biomedical Research; and, the National Advisory Committee for Laboratory Animal Research (NACLAR). Internationally, he serves as a steering committee member of the Global Forum on Bioethics in Research. He is a member of the WHO Working Group on Ethics and COVID-19.



**SPEAKER 1**  
**DR SHARON KAUR**

Universiti Malaya

## **Ethical and Equitable Data Sharing: What This Might Mean for Scientists in Developing Countries**

Dr Sharon is a Senior Lecturer at the Faculty of Law, University of Malaya, where she has designed modules on healthcare law and ethics for undergraduate and postgraduate students. She also teaches on the Masters of Health Research Ethics (MOHRE) programme at the Faculty of Medicine, University of Malaya.

Dr Sharon is currently working on several projects related to the COVID-19 pandemic, one of which relates to the challenges of data sharing in a middle-income country. She currently serves on the Ethics Advisory Council of the International COVID-19 Data Research Alliance and the Data Sharing Working Group of the COVID-19 Clinical Research Coalition.



## SPEAKER 2

### YELENA NOVIKOVA

Independent Expert, Kazakhstan

## Navigating Economic Citizenship to Support Resilience in the New Normal: From “GameStop” Lessons to Post-Normal Bonds

Yelena is a graduate of Grenoble Graduate School of Business (a.k.a. Grenoble Ecole de Management), London Metropolitan University, and KIMEP. She is an independent expert, contributor and public speaker whose work has been repeatedly recognised by the G20 Global Solutions Initiative, making her both G20 Young Global Changer-2017 and G20 Young Global Changer-2018.

In 2017, Yelena was featured as 1 of 7 London Met’s most inspirational graduates. In September 2018, her short article for Global Solutions Journal was published alongside contributions by German Chancellor, Angela Merkel, and Nobel Laureates, Edmund Phelps. In December 2019, her article on post-normal bonds that she co-authored was named The Best Paper of the Year-2019 and was later published by the London-based Chartered Institute for Securities and Investment. Her short opinion piece on GameStop has recently appeared in the Financial Times.



**SPEAKER 3**  
**PROFESSOR DR FATIN**  
**ALIAH PHANG**

Universiti Teknologi Malaysia

## Home-based Learning (PdPR): Challenges and Solutions

Professor Dr Fatin Aliah Phang is a Professor at the School of Education, Faculty of Social Sciences & Humanities, UTM. She earned her PhD in Education at the University of Cambridge, UK, in 2009. Her research areas are Physics Problem Solving, Metacognition, Environmental Education focusing on Low Carbon Society, STEM Education, Educational Research (Qualitative) and Engineering Education.

Dr Fatin's academic and research achievement makes her among the few social scientists in the Academy of Sciences Malaysia (ASM), Young Scientists Network-Academy of Sciences Malaysia (YSN-ASM) and Global Young Academy (GYA). Her interest is to collaborate with different disciplines and foster interdisciplinary research like STEM education and environmental education. She received several national and international awards, including Okayama ESD Award (Global Prize) 2018, UNU Global RCE Award for Outstanding Flagship Project (Climate Change) 2015 and National Intellectual Property Award (Copyright) 2018. For her outstanding research and community works, she is recognised as the Top Malaysian Scientists Award 2019.





**SPEAKER 4**  
**ASSOCIATE PROFESSOR**  
**DR GARRY KUAN**

Universiti Sains Malaysia

## **The Use of Music for Holistic Health and Wellbeing: The New Norms**

Dr Garry Kuan Pei Ern is an Associate Professor of the Exercise and Sports Science Programme, School of Health Sciences, Universiti Sains Malaysia. He was also a certified trainer and sports coach for the Active-After School Communities (AASC) programme under the Australian Sports Commission and a registered music therapist in Australia.

Garry research had won numerous awards internationally. He received the A-CIPA Young Researcher Award, International Scholars Award, and the Atsushi Fujita Research Scholarship. He is currently co-selected as the 2021 International Society of Sport Psychology (ISSP)'s Developing Scholar Award for his contributions to research and scholarly activity. During his social time, he plays the first violin professionally and teaches communities to play various musical instruments. He is the founder and conductor of the USMKK Symphony Orchestra. Garry also performed with prestige orchestras such as the Melbourne Symphony Orchestra and Melbourne Symphonic Orchestra.

## TRACK E: ENVIRONMENTAL SCIENCES AND INFORMATION TECHNOLOGY



KEYNOTE SPEAKER  
PROFESSOR IR  
DR ISMAIL MUSIRIN

Universiti Teknologi MARA

### Trend of Artificial Intelligence in Power System Compensation

Professor Ir Dr Ismail obtained his Bachelor of Electrical Engineering (Hons) in 1990 from Universiti Teknologi Malaysia, MSc Pulsed Power Technology in 1992 from University of Strathclyde, United Kingdom and PhD in Electrical Engineering from Universiti Teknologi MARA (UiTM) in 2005. He is currently a Professor of Power System at the Faculty of Electrical Engineering, UiTM. His research interest includes artificial intelligence, optimisation techniques, power system analysis, renewable energy, distributed generation and power system stability.

Dr Ismail has authored and co-authored two books, over 350 papers in international journals and indexed conferences. He is also an international journal reviewer for IEEE Transactions, Elsevier Science, WSEAS, John Wiley, IET and some other publishers. He is a senior member of the International Association of Computer Science and Information Technology (IACSIT). He is also a member of the Artificial Immune System Society (ARTIST) and the International Association of Engineers (IAENG).



**SPEAKER 1**  
**PROFESSOR DR**  
**MICHAEL**  
**ANGELO B.**  
**PROMENTILLA**

De La Salle University Philippines

## Understanding the NEED Nexus for our Sustainable Future

Dr Promentilla received his PhD in socio-environmental engineering with a Monbukagakusho scholarship from Hokkaido University, Japan. He was recognised in 2013 as one of the Outstanding Young Scientists in the field of socio-environmental engineering by the Philippine National Academy of Science and Technology (NAST).

Dr Promentilla currently serves as a Chemical Engineering professor and the head of the Waste and Resource Management Unit of the Center for Engineering and Sustainable Development Research at De La Salle University. His research interests vary from a broad spectrum of application of decision modelling and risk analysis to public health, environmental and energy systems, and the design and characterisation of sustainable engineering materials. Dr Promentilla worked with the Philippine Council for Health Research and Development to develop a research roadmap towards a climate-smart and disaster-resilient health system. Presently, he leads several projects such as Green Mining and NexCities. He is the recipient of multiple scientific awards from the Commission on Higher Education, the National Research Council of the Philippines, and the Japan Concrete Institute.



**SPEAKER 2**  
**DR JEYANNY**  
**VIJAYANATHAN**

Forest Research Institute  
Malaysia

## Technology Centric Approaches in Building Environmental Resilience and Sustainability

Dr Jeyanny Vijayanathan is a senior research officer in the Forest Plantation Programme of Forest Research Institute Malaysia (FRIM), specialising in soil chemistry, fertility, precision agriculture, survey and plant nutrition management. She earned her PhD in Soil Science in 2015. Her research focuses on environmental soil science, regenerative agriculture & carbon stocks and fluxes in the natural and plantation ecosystems. Dr Jeyanny is a certified chemist (Institute of Chemistry), the current Vice President of the Malaysian Society of Soil Science and a member of the FAO Soil Pollution Working Group. Her major publications include books, book chapters, peer-reviewed journals, editor of proceedings and paper in proceedings.



**SPEAKER 3**  
**ASSOCIATE PROFESSOR**  
**DR AG ASRI AG IBRAHIM**

Universiti Malaysia Sabah

## **Eco Human-Technology Centric in Developing the Future**

Dr Ag Asri is an Associate Professor at the Faculty of Computing and Informatics, University Malaysia Sabah (UMS). He received his PhD (Electronics) from The University of York, United Kingdom, Master's Degree in Computer Science and Bachelor's Degree in Computer Science at the University of Malaya. He is now serving as Chief Information Officer (CIO) of the university and the Director of the Department of Information and Communication Technology. His research interests include data sonification, Kansei engineering and human-computer interaction. Dr Ag Asri is the author and co-author of more than 80 articles and proceedings. He is active in community engagement activities, especially in STEM programme and technology adoption for the entrepreneur.



**SPEAKER 4**  
**ASSOCIATE PROFESSOR**  
**IR DR ROSDIADEE**  
**NORDIN**

Universiti Kebangsaan Malaysia

## **Resurrecting Sri Gumum Dragon with AIN at The Rural Chini Lake in Malaysia**

Associate Professor Ir Dr Rosdiadee is a researcher in the area of wireless communications. His specific focus is on the performance and characterisation of physical layer wireless communications, including wireless sensor communications for the Internet of Things (IoT) applications, aerial wireless communications, and beyond Fifth Generation (5G) wireless networks. He incorporates practical industry requirements and uses transdisciplinary research approaches to solve real-world problems through his wireless research activities. Dr Rosdiadee is currently an Associate Professor with the Universiti Kebangsaan Malaysia, a former Vice-Chair and an active member in the Science Communication Working Group under YSN-ASM. He is the recipient of Top Research Scientists Malaysia (TRSM), a prestigious award under the ASM.

## TRACK F: AGRICULTURE AND FOOD SECURITY



### KEYNOTE SPEAKER PROFESSOR DR WONG MUI YUN

Universiti Putra Malaysia

### Microbiome: The Way Forward in Transforming Food Security

Dr Wong Mui Yun is a professor of Plant Pathology and Biotechnology at the Department of Plant Protection, Faculty of Agriculture, Universiti Putra Malaysia (UPM). Her research focuses on molecular plant pathology and innovative crop protection. She was awarded the prestigious Fulbright Scholar Award from the USA's government as a Fulbright Visiting Scholar attached to the University of California Riverside (UCR), USA, from 2016 to 2017. She also received the Vice-Chancellor Fellowship Award 2017 in the category Best Journal Publication in Science & Technology for her research contributing to advance knowledge in defence responses of oil palm against *Ganoderma* basal stem rot disease. Dr Wong also serves as an editorial board member for three international peer-reviewed journals and an ad-hoc reviewer for many internationally reputed journals. She sits in a working committee under Standard Malaysia and the council of various international and national plant protection-related professional societies. In 2020, Dr Wong received the Distinguished Women in Agricultural Sciences Award given by the Center for Advanced Research and Design, Venus International Foundation, India.



**SPEAKER 1**  
**PROFESSOR DR ASGAR**  
**ALI**

University of Nottingham  
Malaysia

## Feeding the World by Reducing Food Waste and Losses

Professor Asgar Ali is the Director of the internationally-recognised Centre of Excellence for Postharvest Biotechnology (CEPB) at the University of Nottingham. His area of specialisation includes food systems, postharvest technology, food processing, and food technology. CEPB has contributed substantially to global research on edible coatings for extending the shelf life of fruits and vegetables, pioneering research on the use of the natural product gum arabic as an edible coating. His research also focuses on collaboration with trans-disciplinary scientists related to health-promoting bioactive compounds and alternative management of postharvest diseases from fruits and vegetables. Professor Ali has worked, interacted, and networked in several countries, with different organisations, private companies and scientific bodies and has led and managed several research projects. He is an Associate Editor for the Journal of Horticultural Science and Biotechnology, referee for several international scientific journals and research projects, consultant for national and international agencies and bodies, and private companies.





**SPEAKER 2**  
**DATO' DR MADELINE**  
**BERMA FASc**

Academy of Sciences Malaysia

## **Covid-19 Pandemic and Food Security in Malaysia: Issues, Challenges and Solution**

Dr Madeline Berma received her Doctor of Philosophy from the University of Hull, England; Masters of Arts from the University of Wisconsin-Madison USA; and Bachelors of Economics (Honors) from Universiti Kebangsaan Malaysia. She is a Fellow of the Academy of Sciences Malaysia. She currently serves as the Commissioner, Human Rights Commission and the Commissioner, Malaysia Competition Commission. Dr Madeline is an expert on development studies. She leads research, delivers academic papers and publishes on poverty, rural development, as well as indigenous communities and women. Through her research, she has contributed to policymaking on poverty and socio-economic development of rural communities in Malaysia. She is a member of research teams conducting policy-impact studies on Malaysia's Rural Development Policy, Rural Development Poverty in Selected Districts in Sarawak, Policies on Women Development in Johor, Sabah Women's Development Plan, and many more. In recognition of her contribution, she was conferred Pingat Ahli Bintang Kenyalang (ABK) Sarawak, Anugerah Kebesaran Wanita dalam Pendidikan di Sarawak, and Tokoh Wanita Sempena Hari Pekerja CUEPACS 2018.



**SPEAKER 3**  
**DR ROSLINA ALI**

**Malaysian Agricultural Research  
and Development Institute  
(MARDI)**

## **Revitalizing Agriculture for Food Security**

Dr Roslina holds a PhD in Agricultural Policy (2017) and Masters of Science in Agricultural Economics (2008) from the University of Arkansas, United States. Her research interests include the integrations of agricultural policy and economics, food security, and agricultural policy evaluations that contribute to policy decisions and formulations for Malaysia's agricultural sector. She currently leads the Division of Market Intelligence and Agribusiness Research, Malaysian Agricultural Research and Development Institute (MARDI). She has 20 years of research experiences in agricultural economics, agricultural marketing, international trade, agricultural policy, and food policy. She serves as agricultural imports and exports technical committee, editorial boards and reviewers for journals, including Malaysian Journal of Agricultural Economics, Food Research Journal, Economic and Technology Management Review, and scientific publications in MARDI.



**SPEAKER 4**

**DR TAN JU LIN**

**MATRIOUX (M) SDN BHD**

## **Molecular Applications in Agriculture and Food Security**

Dr Tan Ju Lin received her PhD in Biochemistry and Molecular Biology from La Trobe University, Australia, where she explored the mechanisms of protein-protein interaction in *Mycobacterium smegmatis*. After completing her doctoral studies, she had the opportunity to work at Monash University, Australia, as a post-doctoral researcher, where she explored the localisation and role of mitochondrial proteins and how they govern fusion and fission processes of the organelle. As such, she is skilled in a broad range of techniques in the area of molecular cloning, protein biochemistry, cell biology, and microbiology. Dr Tan enjoys teaching and communicating science. When she was in Australia, she joined the In2Science Peer Mentor program, where she mentored Year 9 and Year 10 science students (ages 15-16). In collaboration with the Malaysian Biotechnology Information Centre, Ju Lin is the founder of “Jom Science, Malaysia!”, a social-media based initiative that aims to champion science, technology, engineering, and mathematics in Malaysia.

**YSN-ASM ISVC 2021  
RESEARCH ABSTRACTS  
LISTING**

## TRACK A: HEALTH AND WELL-BEING

[https://youtube.com/playlist?list=PL7Z0e8rfV4QIk\\_0aikeU73eOFFpfPmNXJ](https://youtube.com/playlist?list=PL7Z0e8rfV4QIk_0aikeU73eOFFpfPmNXJ)

No	Title	Authors (Corresponding author underlined)
AA001	Sanguinoderma rugosum: A potential neuroprotective and neurorescue agent on glutamate-induced hippocampal neuronal cells	Sam Si Enn, Sim Kae Shin and Tan Yee Shin
AA002	Evaluation of in-vitro Anti-Proliferative Activities of Hybrid Peptides against Hepatocellular Carcinoma (HepG2) cells.	Chu Xin Ng, Cheng Foh Le and Sau Har Lee
AA003	Ultrasensitive and label-free fluorescent nanobiosensor for the detection of miRNA in cancer progression	Zheng Wei Wong and Siu Yee New
AA004	Pharmacognostics study of Strobilanthes crispus and Vernonia amygdalina Delile as potential therapeutic agent: A comparative study	Mohd Faidz Mohamad Shahimin, Nurul Alaina Md Nazri, See Yue Pei and Amirul Ridzuan Abu Bakar
AA005	Fig powder as a substitution of maltodextrin and fructose in energy gel	Kong Ianne and Tan Choon Hui
AA006	Antimalarial activity, cytotoxicity and phytochemical screening of Quercus infectoria crude extracts	Nurhidanatasha Abu Bakar, Nik Nor Imam Nik Mat Zin and Yusmazura Zakaria
AA007	Identifying DNA Probe from Papillomavirus (HPV) 18 in E6 Region for Sensing Application	F. Nadhirah Jaapar, N. A. Parmin, N. Hamidah A Halim, Uda Hashim, Subash C.B. Gopinath, A. Rahim Ruslinda, Sh. Nadzirah, C.H. Voon, M.N.A. Uda, Wei Chern Ang, Iffah Izzati Zakaria, Zulida Rejali, Amilia Afzan, Azrul Azlan Hamzah, Chang Fu Dee and F. Syakirah Halim
AA008	Anti-oxidant activities of coelonin, a bioactive compound from Dendrobium scabrilingue	Hasseri Halim, Salfarina Ramli, Ihsan Safwan Kamarazaman, Visarut Buranasudja, Boonchoo Sritularak and Pornchai Rojsitthisak
AA009	Development Of Guided Imagery & Progressive Muscle Relaxation Therapy Audio For Patients With Functional Abdominal Bloating	Vincent Tee Wei Shen, Garry Kuan, Lee Yeong Yeh and Kueh Yee Cheng
AA010	Conserved antigenic surface-associated proteins (SAPs) as a candidate biomarker for rapid detection of Acinetobacter baumannii (ACB) complex	Ahmad Ibrahim Bagudo, Azian Harun, and Kirnpal Kaur Banga Singh
AA011	Neurotoxicological Risk Assessments Of Baicalein-Enriched Fraction Extracted From Oroxyllum indicum On Sprague Dawley Rats	Farah Amna Othman, Yusmazura Zakaria and Suat Cheng Tan
AA012	The impact of REM sleep deprivation on vascular function in REM sleep deprived animal model	Afifah Nawi, Wan Amir Nizam Wan Ahmad, Che Badariah Ab Aziz, Anani Aila Mat Zin and <u>Liza Noordin</u>

AA013	Rhodomyrtone, a Bioactive Compound from <i>Rhodomyrtus tomentosa</i> : Cell viability, Proliferation and Migration Rate Assessments	<u>Evana Kamarudin</u> , Hasseri Halim, Tengku Shahrul Anuar Tengku Ahmad Basri and Roslinah Hussain
AA014	Exploring families experience of psychological distress during relative's admission in the Intensive Care Unit (ICU): A scoping review	Tang Li Yoong, Chong Mei Chan, Noor Airini Ibrahim and Khatijah Lim Abdullah
AA015	Gallotannin-Enriched Fraction (GEF) from <i>Quercus Infectoria</i> Preconditioned Neural Stem Cells for Ischemic Stroke Therapy	Nur Alisa Kamarudin, Nik Nur Hakimah Nik Abdullah, Farah Amna Othman and <u>Tan Suat Cheng</u>
AA016	Tissue rigidity evaluation in dual-stage carcinogenesis of Lung Squamous Cell Carcinoma (SCC) <i>in vivo</i>	Muhammad Asyaari Zakaria, <u>Siti Fathiah Masre</u> , Nor Fadilah Rajab, Eng Wee Chua and Gayathri Thevi Selvarajah
AA017	Physical Workout / Exercise as a Treatment (Prompt Recovery Factor) and Protection Against COVID-19	<u>Ali Qureshi</u> and Syed Azhar Syed Sulaiman
AA018	RUNX1 Genomic Engineering Using A Double Nickase CRISPR-Cas9 Strategy	<u>Nur Syamimi Ariffin</u>
AA019	Factors Associated with Late Booking of Antenatal Care Among Pregnant Women in Sepang, Selangor-Preliminary Result	Faizah Nasir, Norliza Ahmad, Lee Khuan and <u>Lim Poh Ying</u>
AA020	Determination of pH changes of the digestive vacuole of the malaria parasite, <i>Plasmodium falciparum</i> treated with ellagic acid	<u>Nur Hazirah Muchtar</u> , Nur Saidatul Aqilah Ja'afar, Nik Nor Imam Nik Mat Zin, Fatin Sofia Mohamad and Nurhidanatasha Abu Bakar
AA021	Physical Characterisation of Atovaquone: from the Perspective of Formulation	Xin-Yi Teoh, Chye-Teik Teh and <u>Siok-Yee Chan</u>
AA022	Effectiveness of cardiopulmonary resuscitation (CPR) using self-directed training method on level of knowledge and skills among hospitals nurses in north-western Nigeria-Protocol paper	Saidu Ahmed, Khuan Lee, Iskasymer Ismail and <u>Poh Ying Lim</u>
AA023	Depression and Anxiety Disorders among Pharmacy Students in UiTM Puncak Alam: Prevalence, Causes and Help-Seeking Behavior during COVID-19 Pandemic	Fatin Athirah Roslan and <u>Siti Nooraisah Hussin</u>
AA024	A Preliminary Survey on Mental Health Status among University Students	<u>Guat See Ooi</u> , Siew Chin Ong and Nur Aizati Athirah Daud
AA025	Evaluation of Fatigue Treatment among Breast Cancer Patients and its Impact on their QOL	<u>Fares Mohammed Saeed Muthanna</u> , Mahmathi Karuppannan, Bassam Abdul Rasool Hassan and Ali Haider Mohammed
AA026	Knowledge, Attitude and Practice (KAP) Study on Antibiotic Utilization among General Practitioners (GPs) in Perak, Malaysia	Deebadarishani Sathasivan, <u>Nur Azzalia Kamaruzaman</u> , Mohd Hafiidz Jaafar and Mazlin Mohideen
AA027	<i>In vitro</i> evaluation of <i>Hibiscus rosa-sinensis</i> on wound healing activity	Izyan Hazirah Zulkurnain, Hasseri Halim, Aida Azlina Ali and Sandra Maniam
AA028	Bactericidal Potential of Dual-Ionic Honeycomb-like ZnO-CuO Nanocomposites from <i>Calotropis gigantea</i> against Prominent Pathogen Associated with Skin Infection: <i>Staphylococcus aureus</i>	G Ambarasan Govindasamy, <u>Rabiatul Basria S. M. N. Mydin</u> , Nor Hazliana Harun and Srimala Sreekantan

AA029	Developing of DNA probe for specific spike glycoprotein of SARS-CoV-2 as a bio-detection component for biosensor production	F. Syakirah Halim, <u>N. A Parmin</u> , Uda Hashim, Subash C.B Gopinath, Farrah Aini Dahalan, Iffah Izzati Zakaria, Wei Chern Ang and N. Fareezah Jaapar
AA030	Kinematics and landing strategies of the ankle during open side-cutting in 120min simulated soccer match-play	Muhammad Hamdan and Raja <u>Mohammed Firhad Raja Azidin</u>
AA031	Analysis of Genetic Variants in Myeloproliferative Neoplasms using a Custom 22-gene Next-generation Sequencing Panel	<u>Tan Jaymi</u> , Chow Yock Ping, Norziha Zainul Abidin, Chang Kian Meng, Veena Selvaratnam, Nor Rafeah Tumian, Poh Yang Ming, Abhi Veerakumarasivam, Michael Arthur Laffan and Wong Chieh Lee
AA032	A multi-omics approach to study the evolution of resistance during low-level antibiotics exposure in Shigella.	Wong Bao Chi, Nancy Abouzeid and <u>Tan Hock Siew</u>
AA033	Combinations of Mitragynine/Speciociliatine purified from the medicinal plant Mitragyna Speciosa, Korth and Cisplatin synergistically inhibited cell proliferation of Nasopharyngeal Carcinoma (NPC) cell lines	<u>Gregory Domic</u> , Siti Fairus Abdul Rahman, Nelson Jeng Yeou Chear, Darshan Singh and Nethia Mohana-Kumaran
AA034	Knowledge, Attitude and Practices of Complementary and Alternative Medication Usage in Type II Diabetes Mellitus Patient	<u>Syarifah Zulikha Syed Mohd Sukri</u> , Normalawati Abdul Malek, Mohamad Sofian Ismail, Ahmad Syukri Jamaludin, Suzana Kasirun, Choo Wai Sun and Rosy Jawan
AA035	The Effects of Tualang Honey on Sperm Profile in Mixed Cholesterol Diet Administered Rats	<u>Sakiinah Hasan</u> , Roslina Abdul Rahim, Mohd Afzal Alias, Naznin Muhammad, Norzamzila Abdullah and Redzuan Nul Hakim Abdul Razak
AA036	Emerging Mental Health Risks among Students at Technical Institution	Anis Athirah Adnan and <u>Hanida Abdul Aziz</u>
AA037	Neurotoxicological Risk Assessment of Baicalein-Enriched Fraction Extracted from Oroxyllum indicum on Sprague Dawley Rats	Farah Amna Othman, Yusmazura Zakaria and <u>Suat Cheng Tan</u>
AA038	Urinary microRNA Isolation using Modified Acid Guanidinium Thiocyanate-Phenol-Chloroform Method for Real-Time Polymerase Chain Reaction Assay	<u>Faizah Ahmad</u> , Mowaffaq Adam Ahmed Adam, Muhammad Amir Yunus, Muhammad Radzi Abu Hassan and Nil Amri Mohamed Kamil
AA039	Patterns of Antibiotics Usage Based on Awareness, Knowledge and Attitude (AKA) among University Students in Chonburi, Thailand	<u>Gaiyathre Subrain</u> , Neni Widiasmoro Selamat, Titinun Auamnoy and Kenneth Paul Martinez
AA040	The Correlation Between Awareness Domains on Urinary Tract Infection (UTI) among Burapha University Students in Chonburi, Thailand	<u>Kenneth Paul Martinez</u> , Neni Widiasmoro Selamat, Gaiyathre Subrain and Titinun Auamnoy
AA041	Investigation of Small and Medium Enterprises Processes Susceptible of Generating Emerging Occupational Risks	Nur Farah Hanim Rosli, Nur Fazrina Mohamad Salleh, <u>Hanida Abdul Aziz</u> , Ezrin Hani Sukadarin and Syamsul Bahari Abdullah
AA042	Effectiveness of Malaria Free Zone program on the knowledge and attitude of malaria prevention among university students in Conakry, Guinea	<u>Lim Poh Ying</u> , Aicha Koutoub Sano, Norliza Ahmad and Dhashani A/P Sivaratnam

AA043	Effects of an Acute Bout of Exercise on Salivary Lactoferrin Responses among Sedentary Smokers and Non-Smokers Men	Halimatun Saadiah Ahmad and <u>Ayu Suzailiana Muhamad</u>
AA044	Therapeutic Potential of Natural Products Against Human Skin Pathogens	<u>Mohd Faiz Mustaffa</u> , Kalavathy Ramasamy, Mizaton Hazizul Hasan, Nor Amlizan Ramli, Siti Naqibah Jaafar and Aishah Adam
AA045	Therapeutic Potential of Baicalein-enriched Fraction(BEF)-preconditioned Neural Stem Cells for Ischemic Stroke Rat Model	Nik Nur Hakimah Nik Salleh, Nur Alisa Kamarudin, Farah Amna Othman, <u>Tan Suat Cheng</u>
AA046	Safety And Efficacy Of Intravenous Iron Sucrose In Pregnancy: A Systematic Review And Meta-Analysis	Siti Khadijah Che Ni & Che Ani, <u>Hanis Zulkifly</u> , Nur Sabiha Md Hussin
AA047	Knowledge, Attitude and Practice Towards the Application of Point-Of-Care Pharmacogenotyping Service Among Community Pharmacists in Malaysia	Nurbaiduri Rosli, <u>Nur Sabiha Md Hussin</u> , Mohd Rahimi Muda
AA048	Screening of factors affecting the Vitamin B12 extraction from Ulva lactuca by 2-Level Factorial Design	Fatin Shazwani, <u>Deny Susanti</u> , Normawaty Mohammad Nor, Muhamad Taher and Nurul Iman Aminuddin
AA049	Pharmacological Activity of Dioscorea spp: A Systematic Review	Nuraini Nafisah, Aliah Mokhtar, Nur Faradila, Hussin Muhammad and <u>Wan Mazlina MS</u>
AA050	Practice of self-medication with antibiotic among students in a public university	<u>Kamaliah Md Saman</u> , Afiqah Hazwani Jaafar and Mathumalar Loganathan Fahrni
AA051	A Systematic Review: Knowledge, Attitude And Practice On Adverse Drug Reaction And Pharmacovigilance Among Healthcare Professionals	<u>Siti Norlina Md Said</u> and Nurul Najwa Ismail
AA052	Effects of drug-free pectin hydrogel on thermal burn wound in diabetic rats	<u>Nor Khaizan Anuar</u> and Nur Nadhirah Nordin
AA053	The Impact of Disease Factor on Medication Adherence Level among Elderly Population in Care Homes	<u>Hasnah Ismail</u> , Nurul Aisyah Amran, Ezlina Usir, Mathumalar Loganathan
AA054	Ascorbic Acid Extraction Methods of Hylocereus polyrhizus and Hylocereus undatus: A Mini Review	Nurassyikin Brahim, Fatimah Salim and <u>Wan Mazlina Md Saad</u>
AA055	Prevalence of Medication Discrepancies During Admission and Discharge in Armed Forces Hospital	Norlizawati Moktar, Izzati Abdul Halim Zaki and <u>Mahmathi Karuppannan</u>
AA056	Association between nutrition knowledge, attitudes and functional food recognizability and consumption among university students in Klang Valley, Malaysia	<u>Janice Tay Ee Fang</u> and Serene Tung En Hui
AA057	The Implementation Of Health Protocol On Students During Covid-19 Pandemic In Indonesia	<u>Windi Indah Fajar ningsih</u> , Andi Eka Yunianto, Dominikus Raditya Atmaka, Hasmar Fajriana, Manik Nur hidayati, Eliza
AA058	Exploration of Characteristics and Predictors for 6-Month Abstinence among Quit Smoking Clinic Attendees in Malaysia	<u>Zakiah Mohd Noordin</u> , Mahmathi Karuppannan, Chin Fen Neoh, and Nor Haizan Ibrahim & Ghazali
AA059	TRPM4 Channel: Expression and Function in Chronic Cerebral Hypoperfusion	<u>Nurul Aqmar Mohamad Nor Hazalin</u> , Liao Ping, Zurina Hassan



AA060	Identification of active compounds from Rosaveridiflora species using LC-QTOF-MS	Nurul Alia Risma Rismayuddin, Puteri Elysa Alia Mohd Badri, Norzaiti Mohd Kenali, and <u>Mohd Hafiz Arzmi</u>
AA061	Positive and Negative Effects of the COVID-19 Pandemic on Occupational Therapy Practitioners' Experiences of Telehealth Service Delivery in the United States of America: A Qualitative Study	Meeka Wendi Craig, Yun Fei Tan, Natasha Smet and <u>Jou Yin Teoh</u>
AA062	Determination of Binding Strength and pH Release Behaviour of Human Heat Shock Protein 47	<u>Siti Masturah Zakeria</u> and Mohd Firdaus Abdul-Wahab
AA063	Identification of Active Compounds from Cervus timorensis Velvet Antler using LC-QTOF-MS	Puteri Elysa Alia Mohd Badri, Nurul Alia Risma Rismayuddin, Norzaiti Mohd Kenali, <u>Mohd Hafiz Arzmi</u> , Deny Susanti Darnis
AA064	Assessing the Usability of Portable Electroencephalogram (EEG) Device to Detect the Effects of Diffused Essential Oils through Brainwave Signal Analysis	<u>Shubashini Gnanasan</u> , Rabiatal Adawiah, Mahmathi Karuppanannan & Yogheswaran Gopalan
AA065	Complementary and alternative medicines in the management of diabetic peripheral neuropathy: A systematic review	Aisyah Farhanah Asruthani and <u>Yogheswaran Gopalan</u>
AA066	Lurking through Virtual Communities (Groups) on the Facebook Social Media Platform as a form of Legitimate Professional Learning: Experiences of Occupational Therapy Practitioners in the United Kingdom	Jou Ling Teoh and <u>Jou Yin Teoh</u>
AA067	Effects of Combined Channa Striatus Supplementation with Countermovement Jumping Exercise on Bone Parameters in Young Inactive Males.	Nurul Hidayah Abd Hadi, <u>Nur Syamsina Ahmad</u> , Ooi Foong Kiew, Azidah Abdul Kadir
AA068	Risk Analysis for Bulk Separation of Fats, Oil and Grease (FOG) from Food Processing Industry Effluent Using Bow-Tie Technique	Hairunnisa Osman, Muhammad Syamim Najmi Mohd Sarlan, <u>Hanida Abdul Aziz</u> , Norhuda Abdul Manaf and Tan Lian See
AA069	Development and validation of the Abdominal Bloating Social Support (SS-Bloat) scale.	Nurzulaikha Abdullah, <u>Yee Cheng Kueh</u> , Garry Kuan, Fatan Hamamah Yahaya, Yeong Yeh Lee
AA070	Pharmacists' Knowledge & Attitude Toward the Application of Point-Of-Care Pharmacogenotyping Services in Malaysia	Syarifah Amirah Syed Khairunawa, <u>Izzati Abdul Halim Zaki</u> , Mohd. Rahimi Muda
AA071	Preliminary Analysis of Structural Changes and Catalytic Activity of Class I Glucose-6-Phosphate Dehydrogenase Variants Using Molecular Dynamic Simulation	Shamini Chandran, Naveen Eugene Louis, Nurriza Ab Latif, Muawiaa Ahmaed Hamza, Mona Alonazi, Arjumand Warsy, and <u>Syazwani Itri Amran</u>
AA072	Association between picky eating behaviour with infant feeding practices and weight status of pre-schoolers in Klang Valley, Malaysia	Ong Jer Min, <u>Mok Kai Ting</u> , Tung Serene En Hui
AA073	Impact of international study experience on work practices of occupational therapists in Singapore.	<u>Ter Fu, Teoh</u> and Jou Yin, Teoh
AA074	The usage of health-related mobile applications among community pharmacists in Malaysia	<u>Ezlina Usir</u> , Nur Amni Syairah Zulkifli

AA075	The Non-Thermal Activity in the Testis of Growing Sprague Dawley Pups Following 2.45 GHz Wi-Fi Exposure	Farah Hanan Fathihah Jaffar, Khairul Osman, Chua Kien Hui, Aini Farzana Zulkefli, <u>Siti Fatimah Ibrahim</u>
AA076	Characterisation of Reticulocytes Derived from Human Peripheral Blood CD34+ Haematopoietic Stem Cells for Plasmodium knowlesi In Vitro Invasion Assay	Fatin Sofia Mohamad, Muhammad Syahmi Khairuzzaman Che Mohd Nasir, Maryam Azlan, Suat Cheng Tan and <u>Nurhidanataasha Abu Bakar</u>
AA077	Perception Towards Vaccination and Vaccine Hesitancy Among Pharmacy Students in a Public University in Malaysia	Anis Aisar Bibudin and <u>Mohammed Abdul Hameed</u>
AA078	Knowledge, Attitude And Practice of Analgesics Use Among UiTM Selangor Student-Athletes	<u>Noorizam Ibrahim</u> , Nor Fazlinda Azmi, Ahmad Fauzi Dali
AA079	The Anti-allergic Effects of Kelulut Honey via the Regulation of Inflammatory Mediators of HMC-1 Cells	Poi Yi Aw Yong, Fahmida Islam, Hui Jing Hong, Chau Ling Tham, <u>Ji Wei Tan</u>
AA080	Antidiabetic effect of Paederia foetida twigs	Dai Chuan Tan, Norsuhana Omar, <u>Nur Kartinee Kassim</u> , Intan Safinar Ismail, Muhajir Hamid
AA081	Minocycline reduces amyloid deposit, preserves neuronal cell damage and improves memory impairment in LPS-induced Alzheimer's disease rat model	Entesar Yaseen Abdo Qaid, Rahimah Zakaria, <u>Idris Long</u>
AA082	Structural Changes of the Articular and Subchondral Bone in Monoiodoacetate-Induced Osteoarthritis in Rats.	Sophia Ogechi Ekeuku and <u>Kok-Yong Chin</u>
AA083	Can Malaysian Bottom and Middle-Income Households Be Happier with Mindfulness?	Fatin Zaida Zaidi, <u>Lai Ming</u> and <u>Anisah Jumaat</u>
AA084	Identification of Putative Neoantigens from Malaysian Colorectal Cancer Patients	Nurul Ainaa' Adilah Rus Bakarurraini, Ryia Illani Mohd Yunos, Mohd Isa Rose, Ismail Sagap, Nurul Syakima Ab Mutalib, Rahman Jamal, <u>Nadiah Abu</u>
AA085	An Enhanced Health Behaviour model for Adoption of Digital Mental Health to Prevent Mental Disorders Among Young Adults in Malaysia	Nasreen Khan, Booi Chen Tan, Anusuyah Subbarao and <u>Abdullah Sarwar</u>
AA086	The Effects of $\beta$ -Glucan-Rich Extract of Grey Oyster Mushroom, Pleurotus pulmonarius on Neurobehavioral Changes in Mice Fed with High-Fat Diet	Nor Athirah Kamaliah Ahmad Tarmizi, Naufal Kushairi, <u>Chia Wei Phan</u> , Vikineswary Sabaratnam, Murali Naidu and Pamela David
AA087	Identification of Chrysotile Asbestos in Brake Pads and Linings from Malaysian Vehicles and Heavy Vehicles by Using Polarized Light Microscope (PLM)	<u>Maryam Zahaba</u> , Ungku Aida Farzana Ungku Azly, Saiful Arifin Shafiee, Hazrin Abdul Hadi, Muhammad Zubir Yusof, Mohd Shukri Mohd Aris, Mohd Norhafsam Maghpor and Nor Mohd Razif Noraini
AA088	Formulation and Characterisation of PVA-based Nanofiber loaded with Gallic Acid as A Potential Chronic Wound Dressing	Shan-Non Lip, Abul Kalam Azad, <u>Chai-Yee Chin</u>
AA089	Enhancement Of Knowledge And Attitude Level On Depression Via Knowledge, Depression And Adolescents (Kda)-Puzzles	<u>Neni Widiasmoro Selamat</u> , Jagathisswary Gobu, Anderson Engkiong

AA090	Correlation between Avoidant Coping Strategies and Depression, Anxiety and Stress among Malaysian during COVID-19 Pandemic	<u>Yew Jing Mun</u> , Kueh Yee Cheng, Norsa'adah Bachok, Leong Foo Weng, Garry Kuan
AA091	Academic Stress, Screen Time and Sleep Quality among University Students during COVID-19 pandemic	Ong Pei Sze, <u>Serene Tung En Hui</u>
AA092	Effects of Self-Emulsifying Drug Delivery System on Bioavailability, Antioxidant and Skeletal Properties of Annatto Tocotrienol In A Rat Model of Postmenopausal Osteoporosis	<u>Kok-Yong Chin</u> , Nur Vaizura Mohamad, Ima Nirwana Soelaiman
AA093	Cytotoxicity of food contaminant free R-glycidol on human colon cell line, HCT 116 with underlying mechanisms and metabolism	Siti Nur Syahirah Nor Mahiran, <u>Nurul Huda Abd Kadir</u>
AA094	The Determination of HLA B 57:01 and HLA B 15:02 Genes Based on the PCR Amplification and Direct Sequencing Techniques from Human Blood	Maisarah Mohd Fodzi and <u>Hamid Fauzi</u>
AA095	Comparison of Human Platelet Lysate Versus Fetal Bovine Serum for Expansion of Human Dermal Fibroblasts	Muhammad Najib Fathi Hassan, Zheng Yie Yap, Yee Loong Tang, Min Hwei Ng, <u>Jia Xian Law</u>
AA096	Cognitive Determinants Of Academic Performance Of Pharmacy Students At University Technology MARA Selangor	<u>Ismail Mohd Shah</u> , Nursyahirah Mohd Nor
AA097	Stem Cell Research and Therapy in Malaysian Private Healthcare Setting: The Governance & Ethical Issues	<u>Kean-Chang, Phang</u> and Mohammad Firdaus Abdul Aziz
AA098	Effects of bee bread on oxidative stress parameters in high-fat diet-induced non-alcoholic fatty liver disease (NAFLD): Role of Nrf2/Keap1 pathway	Zaida Zakaria, Zaidatul Akmal Othman, Joseph Bagi Suleiman, Nur Asyilla Che Jalil, Wan Syaheedah Wan Ghazali, <u>Mahaneem Mohamed</u>
AA099	The effect of probiotic Lactobacillus rhamnosus on Candida albicans and Candida tropicalis biofilm formation.	Aalina Sakiinah Mohd Fuad, Wan Nur Akma Wan Mazlan, Nurul Alia Risma Rismayuddin, Ridhwan Abdul Wahab, <u>Mohd Hafiz Arzmi</u>
AA100	The Prenatal Bisphenol A Exposure Effect on the Expression of NMDA Receptor Subunits in Male Foetal Rat Hippocampus	Norazirah Mat Nayan, Andrean Husin, Siti Hamimah Sheikh Abd Kadir, <u>Rosfaiizah Siran</u>
AA101	Association between CYP2E1 polymorphisms and colorectal cancer risk: a meta-analysis	Mohamad Ayub Khan Sharzehan, <u>Shing Cheng Tan</u>
AA102	Synthesis and Antibacterial Study of PMMA/Silver Nanoparticles	Mahsa Khoshkhooy Yazdi and <u>Mohd Bakri Bakar</u>
AA103	Cancer Nanotheranostics: Roles of engineered nanomaterials, application methods of medical physics and nanobiotechnology	<u>Che Azurahaman Che Abdullah</u>
AA104	Effects of Tocotrienol-Rich Fraction in Medium-Chain Triglycerides (TRF-MCT) and Tocotrienol-Rich Fraction in Long-Chain Triglycerides (TRF-LCT) on Human Endometrial Stromal Fibroblast Cells Viability	Nur Amira Md Amin <sup>1,2,3</sup> , <u>Siti Hamimah Sheikh Abdul Kadir</u> <sup>1,2,3*</sup> , Akmal Hisyam Arshad <sup>4</sup> , Norhaslinda Abdul Aziz <sup>5</sup> , Nurul Alimah Abdul Nasir <sup>6</sup> and Normala Abd Latip <sup>7</sup>

AA105	Effects of Self-Emulsifying Drug Delivery System-Formulated Annatto Tocotrienol in a Rat Model of Postmenopausal Osteoporosis: Evaluation using Bone Histomorphometry and Bone Remodeling Markers	Nur-Vaizura Mohamad, Ima-Nirwana Soelaiman, <u>Chin Kok-Yong</u>
AA106	The Toxicity Evaluation Of Nanoparticles On Artemia Salina	Emmellie Laura Albert and <u>Che Azurahaman Che Abdullah</u>
AA107	Green synthesis of reduced graphene oxide and its cytotoxicity assessment	Dharshini Perumal, Muhammad Amir Faiz, Mas Jaffri Masaruddin and <u>Che Azurahaman Che Abdullah</u>
AA108	Bee bread ameliorates atherosclerosis progression via regulating Nrf2 and NF- $\kappa$ B pathways in obese male rats	Zaidatul Akmal Othman, Zaida Zakaria, Joseph Bagi Suleiman, Wan Syaheedah Wan Ghazali and <u>Mahaneem Mohamed</u>
AA109	Effects of Ifenprodil on Complete Freund's Adjuvant-Induced Chronic Polyarthritis in Male Rats	Ain' Sabreena Mohd Noh <sup>1</sup> , Che Badariah Ab Aziz <sup>1</sup> , Anani Aila Mat Zin <sup>2</sup> , Idris Long <sup>3</sup> , <u>Che Aishah Nazariah Ismail<sup>1</sup></u>
AA110	Antioxidant Activities of The Fraction Extracts of Cashew Shoots (Anacardium occidentale)	Puteri Nur Farahin, <u>Normah Haron</u> , Deny Susanti, Noor Hasniza
AA111	In Silico Molecular Modelling And Docking Of Plant Compounds Against Breast Cancer Cell Line Proteins	Vishalani Loganathan and <u>Asita Elengoe</u>
AA112	The Use Of Geographical Information System (GIS) To Identify Spatial & Clinical Factors Associated With Road Traffic Injury (RTI) In A District In Malaysia	Ruslan Rainis, Sharifah Mastura Syed Mohamed and <u>Nik Hisamuddin Nik Ab Rahman</u>
AA113	Correlation between body mass index and blood glucose levels in young individuals with Down syndrome.	Maziana Mahamood, <u>Mizatun Hazizul Hasan</u> , Mohd Alimukhti Mansor, Caroline Sunggip, Aishah Adam
AA114	In utero BPA exposure altered heart tissue morphology and expression of cardiac proteins	Zatlfariyah Rasdi, Siti Hamimah Sheikh <u>Abdul Kadir</u> , Sharaniza Ab. Rahim, Rosfaizah Siran, Syed Baharom Syed Ahmad Fuad
AA115	Effects of Brain-Breaks Video Exercise on Decisional Balance among Malaysian with Type 2 Diabetes Mellitus	Aizuddin Hidrus, <u>Yee Cheng Kueh</u> , Bachok Norsa'adah and Garry Kuan
AA116	Phytochemicals and Biological Activity Studies of Anacardium occidentale	Hasniza Muhammad, Maisarah Azad Khayruzamri and <u>Siti Ernieyanti Hashim</u>
AA117	Differential response of SW1353 chondrocytes to interleukin-1 beta, monosodium iodoacetate and hydrogen peroxide stimulation	Kok-Lun Pang, Yoke Yue Chow, Lek Mun Leong, Jia Xian Law, Norzana Abd Ghafar, Ima Nirwana Soelaiman, <u>Kok-Yong Chin</u>
AA118	VIRTUAL REALITY (VR) AND MUSIC ON STROKE REHABILITATION : A SYSTEMATIC REVIEW	<u>Lee Wan Zhen</u> and Garry Kuan
AA119	Cytotoxicity and Molecular Docking Studies of Benzimidazole Derivatives as Potential Anticancer Agents against Human Breast Cancer Cell Line (MDA-MB-231)	Nurul Hafizan Azahar, Abdah Md Akim, Rozaini Abdullah, Norizan Ahmat, <u>Hasiah Ab Hamid</u>
AA120	Perfluorooctane Sulfonate Affects Cells Beating Rate and Induces Hypertrophy in Neonatal Rat Cardiomyocytes	Siti Suhana Abdullah Soheimi, Effendi Ibrahim, Amirah Abdul Rahman, Normala

		Abdul Latip and <u>Siti Hamimah Sheikh Abdul Kadir</u>
AA121	A Simple High Performance Liquid Chromatographic Method for Quantification of Astaxanthin Nanoemulsion in Brain Tissue	Mazzura Wan Chik, Meor Mohd Redzuan Meor Mohd Affandi, <u>Gurmeet Kaur Surindar Singh</u>
AA122	Effect of Curcuminoid Analogue, BHMC on Intracellular ROS Modulation in Human Liver Cancer, HepG2 Cells	Muhammad Aminuddin Mohd Shafiee, <u>Sharifah Sakinah Syed Alwi</u> , Armania Nurdin and Zulkefley Othman
AA123	Identification of Homopurine Sites in miR17-92A Gene for Triple Helix DNA Application	Nur Amira Jemal @ Zainal, Norfarahin Norhisam, Azwandi Ahmad, Fazleen Haslinda Mohd Hatta, Ruzianisra Mohamed, Siti Syairah Mohd Mutalip, Ahmad Azani Othman, John Shia Kwong Siew and <u>Mohd Shihabuddin Ahmad Noorden</u>
AA124	Knowledge, Awareness, and Practice of Pet-Related Zoonotic Diseases among Students in Universiti Teknologi MARA Puncak Alam Campus, Selangor	Nur Hanie Fharudin and <u>Azwandi Ahmad</u>
AA125	Synthesis and Characterization of Cobalt(II), Copper(II) and Nickel(II) Complexes of Hydrazone Schiff Base	Hadariah Bahron, Amalina Mohd Tajuddin and <u>Arif Naim Rosnizam</u>
AA126	Identification of hub genes and key pathways involved in NDV-mediated oncolysis of bladder cancer stem cells via whole-transcriptomic sequencing	<u>Thirumorthy A1</u> , Chan SC2, Chau DM3, Yusoff K3,4 and Veerakumarasivam A1*
AA127	Supraphysiological Dose Of Testosterone Decreases Expression Of Mucin-1 In The Endometrium Of Rats During Uterine Receptivity.	<u>Mohd Helmy Mokhtar</u> , Nelli Giribabu, Naguib Salleh
AA128	A Study on How Natural Environment Affects Mental Health of University of Students Studying in the City	<u>Ronualdo Dizer</u>
AA129	Efficiency Profiles of Cisplatin Loading Strategies in the Titania Nanotube Arrays Nanosystem for the Targeted Chemodrug Delivery	Wan Nuramiera Faznie Wan Eddis Effendy, <u>Rabiatul Basria S.M.N Mydin</u> , Amirah Mohd Gazzali, Srimala Sreekantan
AA130	A Case Study on a Naval Ship: Indoor Air Quality (IAQ) Chemical Parameters on Different Ship Conditions and Engine Sequences	Nur Sarah Fatimah Tamsi, <u>Maryam Zahaba</u> , Amirul Faiz Kamaruddin, Mohammad Naufal Mohammad Shariff, Norhidayah Abdull, Arman Ariffin
AA131	A Systematic Review On The Outcome Of Rheumatoid Arthritis Treatment In The Elderly With Biologic Dmard(S) And Methotrexate	Halima S.K. Ramon-Yusuf, Chia Fah Li, Jaasminergit Kaur2, Bama Menon2, Long Chiau Ming3, <u>Safina Faizah Bakrin3</u> .
AA132	A Probit Regression In Identifying The Risk Factors Of Cervical Cancer In Private Hospital	Tan Li Jun and <u>Suliadi Firdaus Sufahani</u>
AA133	Decision Making Process On Planning A Balanced And Nutritious Diet For Autism Paralympic Athlete	Natasha Amirah Mohd Zailani and <u>Suliadi Firdaus Sufahani</u>
AA134	Nutrient Planning For Heart Problem (Stroke) Patients By Using Optimization Technique	Maisarah Auni Jamludin and <u>Suliadi Firdaus Sufahani</u>

AA135	Optimization Approach On Nutritious Menu Planning For Sinusitis Patient Among Malaysian	Batrisyia Ibtisam Osman and <u>Suliadi Firdaus Sufahani</u>
AA136	Vegetarian Menu Planning And Scheduling For Breast Cancer Patients In Malaysia Using Optimization Approaches	Tee Jing Ying and <u>Suliadi Firdaus Sufahani</u>
AA137	Influence of polymer on electrospinning of red palm oil emulsion	Zhao Peng Khong, Jia Le Hwang, Xin Yi Teoh and <u>Siok Yee Chan</u>
AA138	The Effect Of Rhamnolipid Usm-Ar2 Against The Immature Stages Of Aedes Aegypti And Non-Target Organism.	<u>Nur Faeza Abu Kassim</u> , Nur Zulaikha Zainal Abidin , Intan Haslina Ishak, Nur Asshifa Md. Noh and Ahmad Ramli Mohd Yahya.
AA139	Electrospinning of emulsified Red Palm Oil in producing Orodispersible Film as Pro-vitamin A supplement	Hwang Jia Le, Khong Zhao Peng, Teoh Xin Yi and <u>Chan Siok Yee</u>
AA140	Molecular Docking of Five Novel Benzimidazole Derivatives and potential Binding Affinity with CRP, TNF- $\alpha$ , IL-6, and NF-KB	Tahiya Islam <sup>1</sup> , Chau Ling Tham <sup>1</sup> , Abdah Md Akim <sup>1</sup> , Norizan Ahmat <sup>2</sup> , <u>Hasiah Ab Hamid<sup>1</sup></u>
AA141	Functional Interrogation of CRISPR-Cas9 Mediated AGR2 Knockout in Metastatic Triple Negative Breast Cancer Cells	Nisa Syakila A Rahman, Teck Yew Low, Saiful Effendi Syafruddin, <u>M. Aiman Mohtar</u>
AA142	Differential Genes Expression Profile Of Emt6 Parental Cell Lines Irradiated With Gamma-Ray And Its Surviving Cells	Nur Fatihah Ronny Sham, Narimah Abdul Hamid Hasani, Muhammad Khalis Abdul Karim, Syed Baharom Syed Ahmad Fuad, Harissa Husainy Abdullah, <u>Mohammad Johari Ibahim</u>
AA143	Lurking through Virtual Communities (Groups) on the Facebook Social Media Platform as a form of Legitimate Professional Learning: Experiences of Occupational Therapy Practitioners in the United Kingdom	Jou Ling Teoh and <u>Jou Yin Teoh</u>
AA144	Post-stroke Malnutrition and Associated Factors in Stroke Survivors Undergoing Rehabilitation	<u>Chin Yi Ying</u> , Sakinah Harith, Aryati Ahmad, Hassan Basri Mukhali
AA145	Expression of HMGR in HER2 negative and HER2 positive breast cancer	Rosmaizan Drahman , <u>Siti Norasikin Mohd Nafi*</u> , Wan Faiziah Wan Abdul Rahman
AA146	Anticancer Activity Of Marine Endophytic Fungi Fractions Against Melanoma Cell Lines	Abdul Hayy, F.A. & <u>Ariffin, S.A.</u>
AA147	Reduced Graphene Oxide Nanocomposite for The Treatment Methicillin-Resistant Staphylococcus aureus (MRSA) Infections	Nur Liyana Mohd Zin, Thiruchelvi Pulingam, Jimmy Nelson Appaturi, <u>Thaigarajan Parumasivam</u>
AA148	Trends in Output of Research in Clinical Prediction Models of Stroke Outcomes: A Bibliometric Analysis	<u>Mustapha Mohammed</u> , Hadzliana Zainal, Fatimatuzzahra' Abd Aziz, Sagir Mustapha, Balamurugan Tangiisuran
AA149	Health risk assessment of PM10 from an industrial area in Taman Tuanku Jaafar, Negeri Sembilan	<u>R Abdullah</u> , FA Mohammad Yazah, and NE Ezani
AA150	Determination Of In Vitro Synergy Of Ampicilin And Chloramphenicol Against Multidrug Resistant Bacillus Cereus Species	Nur Aina Mardhiah Abdul Halid, Kam Kar Yern, Athena Dana and <u>Nor Azimah Mohd Zain</u>

AA151	Prevalence and Factors Associated with Face Mask Usage During Covid-19 Pandemic Among Students and Staff of Malaysian Medical School	<u>Nurul Hayati Mohamad Zainal</u> , Nurul Huda Mohd Nor, Aishwarya Sivakumar, Ahmad Muaz Ibrahim and Dayana Aida Azhar
AA152	Narrative Review 3P's of Sodium Valproate: What's New?	Muhamad Faiz Othman and <u>Muhamad Zainal Ahmad</u>
AA153	Burkholderia pseudomallei Colony Morphology Variants: Comparative Proteomics Analysis	<u>Vanitha Mariappan</u> , Kumutha Malar Vellasamy, and Jamuna Vadivelu
AA154	Life During The Pandemic of Coronavirus Disease in Malaysia: Are We Prepared Mentally and Physically?	Mohamad Nizam Mohamed Noriman, Dyron Fong Zhi Hao, Ivansler Chyrell Christopher, Sulaiman Bacho, Jairon Landa and <u>Aslina Baharum</u>



## TRACK B: BUSINESS ECONOMICS

<https://youtube.com/playlist?list=PL7Z0e8rfV4QIP3bEAlg0m21Kbvppb-EZm>

No	Title	Authors (Corresponding author underlined)
AB001	A Framework For Financial Literacy And Personal Financial Management In Malaysia	<u>Shaleni A/P Vassu</u> & Mohd Fairuz Abd Rahim
AB002	Digital Banking for the Digital Age	Saravanan Muthaiyah, Kalaiarasi Sonai Muthu Anbananthen, <u>Thein Oak Kyaw Zaw</u> and Ganes Raj Muthu Arumugam
AB003	Role Of E-Commerce In Enhancing The Competitive Advantage Of An Airline: The Case Of Libyan Airlines	Farag Almsalati, <u>Mariati Norhashim</u> and Magiswary Dorasamy
AB004	Retirement planning intentions during COVID-19 pandemic: Applying the theory of planned behaviour	<u>Zi-hui Cher</u> , Ying-Zhee Lim, Tuan-Hock Ng
AB005	International SMEs in Facing the Challenges of the Iranian Market: A Recommendation	Shahab_Sharfaei, Jeen Wei Ong, Adedapo O. Ojo
AB006	Using cash during COVID-19? Impact of perceived risk and security on E-wallet adoption	<u>WeiLee Lim</u> , Uma Thevi Munikrishnan, Mei-Wei Leong and Yang Liu
AB007	The Role of Domestic Institutional Ownership in Influencing the Nexus Between Corporate Social Responsibility Performance and Auditor-Client Contracting: the Malaysian Evidence	<u>Yen Yip</u>
AB008	Sustaining SMEs through Business Model Innovation	<u>Lim Chin Kuan</u> , Ong Jeen Wei and Mariati Binti Norhashim
AB009	Factors Affecting E-Commerce Adoption Among Agricultural Micro Small Medium Enterprises (MSME)	<u>Yusliza Jamalut</u> , Mohd Fairuz Abd Rahim, Ong Jeen Wei
AB010	Corporate Governance and Shareholders' Confidence in Cooperative Corporations: A Case Study	Arasu Thangaveloo, Abdul Aziz Ahmad & Magiswary Dorasamy
AB011	Operational Cost Analysis On Electric Bus In Malaysia	<u>Ahmad Husaini Mohamad Tajudin</u> , Mohd Fahmy Abdullah, Suliadi Firdaus Sufahani, Hadfi Abdul Halim
AB012	Non-Operational Cost Analysis On Electric Bus In Malaysia- A Literature Review	<u>Muhammad Aidil Taib</u> , Mohd Fahmy-Abdullah, Suliadi Firdaus Sufahani, Hadfi Abdul Halim
AB013	Social Media Influence on Digital Marketing	<u>Kumarashvari Subramaniam</u> and Nasreen Khan
AB014	Anti-Money Laundering using Graph Convolutional Network	<u>Bhupendra Mishra</u> , Eiad Yafi, Shahrulniza Musa
AB015	Customer Satisfaction Index On The Operation Of Electrical Buses In Pengerang	<u>Muhammad Sharol Zizi Md Shabarien</u> , Mohd Fahmy Abdullah, Suliadi Firdaus Sufahani, Hadfi Abdul Halim



AB016	Guideline For B40 And M40 Buyers To Purchase A Residential Property In Kuala Lumpur	Gan Fui Yee, <u>Suliadi Firdaus Sufahani</u> , Sugiyarto Surono, Asmala Ahmad
AB017	Non-Classical Optimal Control Problem With Hyperbolic Tangent For Three Piecewise Function	Wan Noor Afifah Wan Ahmad, <u>Suliadi Firdaus Sufahani</u>
AB018	A Study Of Factors Impacting Cryptocurrency Adoption Among Investors In Malaysia	<u>Shangeetha A/P Sukumaran</u> , Thai Siew Bee & Shaista Wasiuzzaman

## TRACK C: ENGINEERING AND ENERGY TRANSITIONS

[https://youtube.com/playlist?list=PL7Z0e8rfV4QJB-\\_SDwcoOhcZd0QAK8AdJ](https://youtube.com/playlist?list=PL7Z0e8rfV4QJB-_SDwcoOhcZd0QAK8AdJ)

No	Title	Authors (Corresponding author underlined)
AC001	Influence of BaMnO <sub>3</sub> catalyst on the hydrogen storage performance of MgH <sub>2</sub>	Noratiqah Sazelee, <u>Mohammad Ismail</u>
AC002	Solar Energy Cycle Modelling for Electricity Generation at Seri Iskandar City in the State of Perak, Malaysia.	<u>Mohd Ismi Aswaly Hanimi</u>
AC003	Synthesis and Characterization of Biocellulose Hydrogel Derived From Oil Palm Empty Fruit Bunches	Maha Mohammad AL-Rajabi, <u>Teow Yeit Haan</u>
AC004	Numerical Experimentation on Argentina Nano Focus Machine	<u>Arwinder Singh</u> , Teh Thiam Oun, Saw Sor Heoh and Lee Sing
AC005	Catalytic effect of CoTiO <sub>3</sub> synthesized via solid state method on the dehydrogenation performance of LiAlH <sub>4</sub>	Nurul Amirah Ali, <u>Mohammad Ismail</u>
AC006	Improvement of Home Energy Management System by Using Intelligent Lifting Solar Panels	<u>Chia Chao Kang</u> , Hu JiaJun, Lin HongJian, LiFan and Zhang TianYi
AC007	The Effect of Electrolyte pH On the Electrodeposition of Nickel Coating on Zincated Aluminium	Mohammad Hafizuddin Mohd Zaki, <u>Yusairie Mohd</u> , Nik Norziehana Che Isa
AC008	The DC-DC Converter Controller Simulation of a Lithium-ion Battery and Supercapacitor Storage System	<u>Azrul Husaini Ahmad</u> and Alia Farhana Abdu Ghaffar
AC009	Systematic Literature Review On Multi Criteria Analysis Methods For Ethanol Plant Sustainability Weighting	Norfazilah Abdul Halim, <u>Nor Zalina Kasim</u> , Aliff Radzuan Mohamad Radzi
AC010	Numerical Study Of Crashworthiness On Honeycomb Filler Subjected To Impact Loading	Sze Pei Tan, <u>Siti Nadiyah Mohd Saffe</u> , Siti Aishah Rusdan and Jasri Mohamad
AC011	Effect of pH on The Dispersion Property of Sulphur Nanoparticles in Natural Rubber	Nur Ameera Rosli and <u>Yeit Haan Teow</u>
AC012	The prediction of biochar yield produced from banana peels: A Support Vector Regression Evaluation	Anurita Selvarajoo, Anwar P.P. Abdul Majeed, Rabi Muazu Musa and <u>Senthil Kumar Arumugasamy</u>
AC013	Enhancing The Heat Transfer And Thermal Performance In Light Emitting Diode Using A Magnesium Oxide Thin Film Thermal Interface Material	<u>Muhammad Sani Idris</u> , Subramani Shanmugan, and Yushamdan Yusof
AC014	Correlation Analysis between Sub-Bituminous Coal Ash Fusion Temperature (AFT) to Ash Slagging Propensity	<u>Salmi Samsudin</u>
AC015	Development of The Extended Costa Loop Carrier Recovery System with SDR technology	<u>Chia Chao Kang</u> , Widad Ismail, Chia Yang Kang, Jian Ding Tan, Mohammad Mahdi Ariannejad

AC016	COVID-19 Site Operating Procedures on the Construction Industry in Malaysia: A Value Management Approach	<u>Lee Yong Siang</u> , Ts. Tan Zi Yi, Ooi Xiao Mei, Farid Ezanee Mohamed Ghazali and Tee Eng Han
AC017	The Emergence of Phase Change Material in Solar Thermal Energy: A Review	<u>Norhuda Abdul Manaf</u> , Nor Ruwaida Jamian, Nursyafreena Attan, Muhammad Fauzi Zaniil, Minh Trii Luu and Ali Abbas
AC018	Vibration Attenuation of Suspended Handle Model using Intelligent Tuning Method of AFC-PSO	Choo Kinn and <u>Ahmad Zhafran Ahmad Mazlan</u>
AC019	Fabrication of Ankle Foot Orthotics Using 3D Scanner and 3D Printing Methods	<u>Kushendarsyah Saptaji</u> , Dinda Arina Manasikana, Muchamad Oktaviandri
AC020	Microwave CO2 pyrolysis - A new approach for valorization of waste	<u>Shin Ying Foong</u> , Prof. Su Shiung Lam
AC021	Carbon quantum dots incorporated onto n/n type graphitic carbon nitride homojunction for enhanced visible light-driven photoactivity	Sue Jiun Phang, Voon-Loong Wong, <u>Lling-Lling Tan</u>
AC022	Optimisation of Solar Collectors and Thermal Storage through Solar Thermal Cascade Analysis (STCA)	<u>Muhammad Imran Ismail</u> , Ho Wai Shin and Haslenda Hashim
AC023	Comparison of Quality (Q) Factor for Different Topology of Inductor using Different Material of Substrate for Wireless Application	<u>Azirah. H.</u> , N. Khalid, N. I. M. Noor, S.R. Kasjoo and Z. Sauli
AC024	Acid Resistance of The Concrete Containing Ground Coal Bottom Ash as Partial Cement Replacement	<u>Nabilla Mohamad</u> , Khairunisa Muthusamy, Muhammad Fazlee Mohd Nor, Nur Farhayu Ariffin, Wan Saffuan Wan Ahmad
AC025	Effect of Palm Oil Fuel Ash as Partial Sand Replacement on Workability and Compressive Strength of Palm Oil Clinker Lightweight Aggregate Concrete	<u>Nur Farah Aziera Jamaludin</u> , Khairunisa Muthusamy and Mohd Faizal Md Jaafar
AC026	Effect of Temperature on Lightweight Concrete Containing Oil Palm Shell and Fly Ash	<u>Ahmed Mokhtar Albshir Budiea</u> , Khairunisa Muthusamy, Nadiyah Samsuddin, Mohamed A. Ismail, Saffuan Wan Ahmed
AC027	Hydrotalcite: The Uniqueness Clay - A Review	<u>Nazrizawati Ahmad Tajuddin</u>
AC028	Investigation On the Pressure and Velocity Contour for A Sliced Intake Manifold	Lim Jin Wei, <u>Muhammad Izzat Nor Ma'arof</u> , Narendran S/O Nadarajan, Kavenraj Rajendran, Girma Tadesse Chala
AC029	Assessment of an Anti-Lift Channel for A Racing Motorcycle Via Wind Tunnel Test	<u>M. I. N. Ma'arof</u> , Nurfarah A. Z. Kamarudin, Girma T. Chala and Kavenraj S/O Rajendran
AC030	Flexible Feedstock Analysis of Biomass Gasification Process towards Carbon-Negative Energy Technology: A Case Study in Malaysia	Zahrul Faizi Mohd Shadzalli, Nursyuhada' Kamarulzaman, <u>Norhuda Abdul Manaf</u>
AC031	Design and Prototyping of a 'Sweep'- Coating Method for Generating Thin Films	Fatanah Mohamed Suhaimi, Chen Yew Ming, Tan Chee Pin, <u>Siti Hawa Ngaling</u>
AC032	Comparative Electrical Properties of Undoped and Sn Doped ZnO Thin Films for Gas Sensing Application	<u>M.Hannas</u> , Noor Anilizawatima and M.Rusop
AC033	Accuracy Measurement of Line Following Robot Tracking Using Motion Capture Systems	<u>Md Abdul Momin</u> and Alia Farhana Abdul Ghaffar

## TRACK D: SOCIAL SCIENCES AND HUMANITIES

<https://www.youtube.com/playlist?list=PL7Z0e8rfV4QIyc17beg8DW9HL5AZfnhGO>

No	Title	Authors (Corresponding author underlined)
AD001	Factors Associated with the Prevalence of Mental Health Problems among Health Science Undergraduate Students in Malaysia: A Cross-sectional Study	Muhammad Faris Fauzi, Mohd Zaki Salleh, Lay Kek Teh, Farida Zuraina Mohd Yusof, Richard Johari James, Mawarni Mohamed, <u>Tengku Shahrul Anuar</u>
AD002	Problem Diagnosis on Knowledge Creation in Industry 4.0 among IT Project Managers	<u>Tung Soon Seng</u> , Magiswary Dorasamy, Ruzanna Ab Razak
AD003	Adolescent Secondary School Students' Goal Orientation and Enjoyment towards Sports	Teo Boon Sian, <u>Chin Ngien Siong</u>
AD004	Participation Motivation and Attitudes towards Physical Activity among Trainee Teachers	<u>Ting Pei Yi</u> , Chin Ngien Siong, Garry Kuan
AD005	Online-to-Offline (O2O) Commerce: Factors that Influence Consumers' Offline Purchase Intention through eWOM	<u>Nurul Airin Mohamad Ridza</u> , Melissa W. Migin and Hasliza Hassan
AD006	Rethinking Talent Management Strategies in Malaysia's Tourism sector post COVID-19	<u>Maniam Kaliannan</u> , Darshana Darmalinggam, Magiswary Dorasamy
AD007	Critical success factors for inclusive talent management in Malaysia	<u>Darshana Darmalinggam</u> and Maniam Kaliannan
AD008	The Conviction of The Hilal Using Image Processing: The Islamic Scholars' Views	Ahmad Ezzuddin Mohamad, <u>Roslan Umar</u> , Mohd Saiful Anwar Mohd Nawawi
AD009	Board Game : Kembara Alam Hartawan Falak (AL-KAHF)	<u>Roslan Umar</u> , Nor Hazmin Sabri, Dr. Mohd Hasrul Shuhari, Ismahafezi Ismail, Ahmad Najmuddin Zulkeflee, Ahmad Ezzuddin Mohamad, Ahmad Solihin Sira Juddin and Hannan Fatini Md Reshad
AD010	Smartphone Use among Undergraduate students: A Preliminary Study	<u>Manvin Kaur Kuldeep Singh</u> , Hadijah Jaffri and Narina A. Samah
AD011	Regression Analysis for Stature Estimation from Foot Length Measurement in Multi-Ethnic Population of Sarawak	Nur Issyatul Sofea Abdullah, <u>Neni Widiasmoro Selamat</u>
AD012	Integration of Science, Technology and Quran: The Implementation of Ihya, Tadabbur and Ibrah Concept in Learning Activity Module	Siti Nurhidayah Jasmi, <u>Nor Hazmin Sabri</u> , Azza Jauhar Ahmad Tajuddin, Riswadi Azmi, Rodiah Mustafa and Ahmad Mustaffa Mohamad
AD013	Middle managers as authentic leaders for the public sector management: systematic review	<u>Hal Mahera Ahmad</u> , Maniam Kaliannan, and Dilip S. Mutum
AD014	Experiential Education Versus Traditional Education Impact on Student's Engagement and Skills Growth: PharmaShout Newspaper as a Developed Tool for Pharmacy Undergraduates	Reem Abou Assi, Ibrahim M Abdulbaqi, <u>Chan Siok Yee</u>

AD015	Accident Risk Analysis in Food Manufacturing Industry	Nur Farah Nabila Zahari, <u>Dr. Mohd Najib Yacob</u>
AD016	"AReal-Vocab" : Augmented Reality English Vocabulary Module for Children with Autism	<u>Haida Umiera Hashim</u> , Melor Md Yunus, Helmi Norman
AD017	Cybersecurity Awareness on IoT Risk for Bright Society	<u>Ts Dr. Magiswary Dorasamy</u> , Dr. Manimekalai Jambulingam
AD018	Perception of E-tailing Ethics among Malaysians	<u>Samantha Andy William Nai</u> , Yee Wui Lim and Wan Leng Lim
AD019	Examining the Relationships Between Coaching Behaviours on Elite Volleyball Players' Anxiety & Performance Satisfaction	<u>Amy Loh Liew Yi</u> , Teo Eng Wah, Ramayah T
AD020	Understanding the Waves of Social Commerce	<u>Manimekalai Jambulingam</u> , Magiswary Dorasamy , Jesrina Ann Xavier
AD021	Factors Associated with Drug Use During Pregnancy and Breastfeeding among Female Drug Users (FDUs) who Used Amphetamine-Type Stimulant (ATS) in Malaysia.	<u>Asnina Anandan</u> , Nur Aizati Athirah Daud and Darshan Singh
AD022	Cybersecurity Challenges and Impact for Malaysians During the Coronavirus (COVID-19) Pandemic	<u>Rossanne Gale Vergara</u> and Olivia Tan Swee Leng
AD023	The Role of International Donors in the Policy-Making: Case Study of the Palestinian Water Sector	<u>Feras Ali Qawasmeh</u> , Kuppusamy Singaravelloo and Raja Noriza Raja Ariffin
AD024	Accountants Role in Achieving Sustainable Production: The Moderating Role of Integrated Reporting	<u>Puvaneswari Veloo</u> , Abby Ashraff Saprudin and Abdul Aziz Ahmad
AD025	Terminologies-based teaching: a student's perception on analytical separation methods	<u>Nor Monica Ahmad</u> , Ahmad Husaini Mohamed, Nur Nadia Dzulkifli, Jamil Mohamed Sapari and Sheikh Ahmad Izaddin Sheikh Mohd Ghazali
AD026	The Sustenance of Cultural Heritage Through Social Entrepreneurship	<u>Law Joey</u> , Jeen Wei Ong and Kamarulzaman Ab. Aziz
AD027	A Critical Evaluation of Telemedicine Cybersecurity in Malaysia	<u>Olivia Tan Swee Leng</u> and Rossanne Gale Vergara
AD028	Does Regulatory Enforcement Effective in Malaysia? An Analysis of the Occupational Accident in Malaysia	<u>Nor Hasliza Mat Hasan</u>
AD029	Security Risk Analysis for Information Asset (Intellectual Property (IP))	<u>Muhammad Afif Mohd Fathullah</u> , Ts. Dr. Anusuyah Subbarao
AD030	Achieving Better Quality of Life: Challenges Faced and Coping Strategies Used by Primary Caregivers of Children with Cerebral Palsy in Malaysia	<u>Kelvin Ying</u> , Siti Hawa Ali, Nik Soriani Yaacob and Garry Kuan
AD031	Review on the use of music prior to the performance in sports	<u>Hilda Entering</u> , Garry Kuan, Adam Abdul Malik, Kueh Yee Cheng, & Chin Ngien Siong
AD032	Translation And Validation Of Malay Version Of The Emotional Intelligence Scale For Youth Football Players	<u>Candrawati Ibrahim</u> , Garry Kuan, Ayu Suzailiana Muhammad, Kueh Yee Cheng And Chin Ngien Siong

AD033	The Use Of Badminton Training Aids Set On Badminton Footwork Skill Performance	<u>Candrawati Ibrahim</u> , Ismail Dikoh, Quek Eeu Len, Hamsiah Bontal, Hamidon Zain Mohamad And Nurlyn Syifaa' Jacklyna Aban
AD034	Examining the Antecedents and Consequences of E-wallet Adoption: An Empirical Analysis	<u>Leong Min Yee</u> , Dr Kwan Jing Hui and Prof. Dr. Lai Ming
AD035	Understanding Students' Online Service Experience: An Exploratory Study in Malaysia context	<u>Kim Piew Lai</u> and Zhi Xin Liang
AD036	Change Management in Public Organisations: The Effect of Political Change	<u>Ajitpal Singh Santokh Singh</u> , Maniam Kaliannan, and Mathew Abraham
AD037	Resilience in the New Normal: Riddle-Based Game and Gamified Digital Case Studies as an Interactive Online Learning Tool in Pharmacology and Toxicology	Syed Alwi, S. S., Tahia, T., Yusri, M. A. H. and <u>Cheema, M. S.</u>
AD038	Students' Preference on Integrating Pedagogical Agent in Hybrid Learning	Clara A/P Susaie, <u>Tan Choo Kim</u>
AD039	The Antecedents of Green Consumerism of Malaysian Urban Youth	Maged Abdelaal, <u>Uma Thevi Munikrishnan</u> and Tee Mcxin
AD040	Electrical Technology Students' Learning Styles at the Malaysian Vocational College	Adnan Ahmad, Normila Mohd Bohari, Norliza Mohamad
AD041	Analysing Board Characteristics with Firm Performance among Malaysian and Singaporean Shariah Public Listed Companies	David Ng Ching Yat , Seah Chiun Jie , Lau Teck Chai
AD042	Readiness in New Normal Teaching and Learning through Teachers Views	<u>Normila Mohd Bohari</u> , Aede Hatib Musta'amal@Jamal, Mazlili Suhaini
AD043	Bringing in the Ching-Chong: Introducing 24 Season Drums as a novel approach to physical literacy and resilience development	<u>Vincent Tee Wei Shen</u> and Garry Kuan
AD044	The Effects of Goal Contents towards Physical Activity	<u>Jeswenny Fresshila</u> , Chin Ngien Siong, Garry Kuan, Teo Boon Sian, Ting Pei Yi
AD045	Infusing Tabayyun Concept in Media Dakwah (preaching) in Malaysia	<u>Abdul Qahhar Ibrahim</u> , Farisha Irwayu Abdullah, Roslan Umar
AD046	Is Frugal Innovation the saviour for private Higher Learning Institutions during pandemic?	<u>Jayamalathi Jayabalan</u> , Magiswary Dorasamy, Murali Raman
AD047	A Systematic Literature Review on Safety Culture in Malaysian Industry	Siti Noraishah Ismail, <u>Azizan Ramli</u>
AD048	The Effect of Leadership Styles on Employee Engagement in The Public Service - A Systematic Review	<u>Norfadhillaton Zahari</u> , Maniam Kaliannan & Patricia Ang
AD049	Sustainable Business Model for Local Councils' Smart City Initiatives	<u>Ezatul Faizura Mustaffa Kamal Effendee</u> , Ts. Dr. Magiswary Dorasamy, Dr. Abdul Aziz Ahmad
AD050	Adoption of Self-Service Technologies (SSTs) among Retail Consumers in Malaysia: Moving Towards a Resilient Retail Sector Post Covid-19	<u>Tan Gek Siang</u> and Lim Zi Yang

AD051	Factors Affecting the Adoption of e-Wallet among Businesses in Malaysia: Maintaining Resilience in the Payments Ecosystem in Post Covid-19	<u>Tan Gek Siang</u> and Lim Xin Hui
AD052	A Review of Educators' Experiences in Conducting Emergency Remote Teaching during Pandemic Covid-19	Yong Keow Lee and <u>Norasykin Mohd Zaid</u>
AD053	Effect of Game Based Learning via UniteAR Towards Students' Perception In Learning Geography	Ong Ace Hong Ong Long , <u>Noor Dayana Abd Halim</u> , Nurul Nadwa Zulkifli
AD054	Exploring Problem Representation Using the Think Aloud Protocol: A Research Guideline	<u>Mazlena Murshed</u> , Fatin Aliah Phang and Muhammad Abd HadiBunyamin
AD055	Attitude Change in Learning Physics Using PhET	<u>Ng Mei Eng</u> & Chua Kah Heng
AD056	FaST LaB STEM Outreach Activities to Rural Communities: Implementation & Impact	<u>Muhammad Zamir Othman</u> , Siti Nazurah Md Jusoh, Syaza Azhari, and Azrul Azim Mohd Yunus
AD057	Analysis Of Facebook Comments To Examine Society Opinion On Herbal Medicine For Covid-19 Treatment	<u>Salfarina Ramli</u> , Aisyah Zainalabidin, Hasseri Halim
AD058	Epidemiological Study Of The Influence Of Socio-Demographic Factors On The Occurrence Of Down Syndrome In Malaysia	Opara Otuodi Chigozie, <u>Suliadi Firdaus Sufahani</u>
AD059	Bridging Culture And Science Education: Implications For Research And Practice	<u>Izzah Mardhiya Mohammad Isa</u> , Muhammad Abd Hadi Bunyamin, Fatin Aliah Phang Abdullah
AD060	Portraying The Impact Of Social Media To Cosmetics Industry From The Perspective Of Social Media Influencers	<u>Yi Chin, Loo</u> , Yuek Li, Ker, Megat Aman Zahiri & Nurul Farhana Jumaat
AD061	Assessment of Knowledge Creation Enablers in the Malaysian Civil Service	<u>Noor-Maliza Jamal</u> and Maniam Kaliannan
AD062	The Importance of Physical Activity Participation among Persons with Disabilities	<u>Nagoor Meera b Abdullah</u> , Noorasiah bt Zainal Abidin , Mohamad Rahizam Abdul Rahim, Asiah Mohd Pilus and Zarizi Ab Rahman
AD063	Reliability and Construct Validity Evidence of Standing Long Jump (SLJ) among Students with Visual Impairment	<u>Nagoor Meera Abdullah</u> , Mawarni Mohamed, Mohamad Nizam Mohamed Shapie and Zarizi Abdul Rahman
AD064	Industry 4.0 -A Driver for Triple Bottom Line Sustainable Development	<u>Mohammad Nurul Hassan Reza</u> , Sreenivasan Jayashree, Chinnasamy Agamudai Nambi Malarvizhi
AD065	Community and Climate Change Among The Bagang Community In Pitas, Sabah	<u>JUrry Foo</u> , Oliver Valentine Eboy, Marja Azlima Omar
AD066	The Effectiveness Of Nanoscience Activity In Promoting Positive Attitude Towards Chemistry Lessons	<u>Chua Kah Heng</u>
AD067	Effects of Synchronous and Asynchronous Music on Running Performance, Mood and Heart Rate	<u>Garry Kuan</u> , Michelle Winnie Anak Raybin, and Kueh Yee Cheng
AD068	Effects of Service Quality, Product Quality and Customer Satisfaction on Customer Loyalty in Retail Industry	<u>Abdullah Sarwar</u> , SM Ferdous Azam, Vincent Oh Kim Seng & Low Jing Hong
AD069	Knowledge Management and IoT Technology Adoption of NCD Patients in Malaysia	Chinnasamy Agamudainambhi Malarvizhi, Sreenivasan Jayashree, <u>Sifat Jubaira</u>

AD070	Student Emotional Achievement in Physical Education at Primary Schools: Teaching and Learning Approach.	Garry Kuan, Hairul Anuar Hashim, Nurul Azuar Hamzah, and Yee Cheng Kueh
AD071	Social Presence In Physics Online Class During Pandemic Covid-19	<u>Anis Diyana</u> and Fatin Aliah Phang



## TRACK E: ENVIRONMENTAL SCIENCES AND INFORMATION TECHNOLOGY

<https://youtube.com/playlist?list=PL7Z0e8rfV4QIE-Cyrz8JZlputjuQdtMoY>

No	Title	Authors (Corresponding author underlined)
AE001	Synthesis and Electrochemical Performances of Mn <sub>2</sub> O <sub>3</sub> as an Anode For Sodium-Ion Battery	Nor Fazila Mahamad Yusoff, <u>Nurul Hayati Idris</u>
AE002	Analysis of ULF emission with solar wind for Earthquake precursor study	S N A Syed Zafar, <u>R Umar</u> , S N Hazmin, M H Jusoh, A Yoshikawa
AE003	A Preliminary Study of Image Processing Analysis on New Moon Crescent Images	<u>Ahmad Najmuddin Zulkeflee</u> , Roslan Umar, Fatma Susilawati Mohamad, Nazhatulshima Ahmad
AE004	Synthesis and characterization of g-C <sub>3</sub> N <sub>4</sub> /TiO <sub>2</sub> as photocatalyst for photodegradation of dyes, phenol and caffeine	<u>Mohd Hasmizam Razali</u> , Muhammad Amir Fikri MD Fauzi, Basirah Mohd Azam
AE005	Study on Photocatalytic Efficiency of Hybrid Titanium Dioxide Nanowires/Reduced Graphene Oxide for Degradation of Methyl Orange Dye	Basirah Mohd Azam, <u>Mohd Hasmizam Razali</u> , Muhammad Amir Fikri Md Fauzi
AE006	Ionic liquids-surfactin binary mixture for crude oil dispersion	<u>Leow Keen Onn</u> , Maisara Shahrom Raja Shahrom and Magaret Sivapragasam
AE007	Influence of sand size in mechanical and technical properties of plastic sand bricks	<u>Turkeswari Uvarajan</u> , Paran Gani, Ng Chuck Chuan, Hanis Zulkernain
AE008	Singapore SMEs Approach towards adopting Industry 4.0 A Digital Leadership Perspective	<u>Balasubramaniam S/O Arumugam</u> , Dr Maniam Kaliannan
AE009	The Optimization of Chitosan Dissolution in Ionic Liquid	<u>Mok Shue Yee</u> , Maisara Shahrom Raja Shahrom and Magaret Sivapragasam
AE010	Consumer Behaviour In Adopting Cashless Payment Methods During COVID-19	<u>Tan Chi Cheng</u> , Low Suet Cheng and Hen Kai Wah
AE011	Heteroatom-doped Graphene Aerogel for Sodium-Ion Batteries	Sarah Umeera Muhamad, <u>Nurul Hayati Idris</u>
AE012	Novel Hydrogel Immobilized Magnetophoretic Microbial Biosorbent for Dye Removal from Aqueous solutions	<u>Ryan Yeo Yow Zhong</u> , Ng Qi Hwa, Norhidayah Abd Aziz and Mohd Faidz bin Mohamad Shahimin
AE013	Integrated Process Knowledge Management System(PKMS) Based on Risk Based Process Safety	Nur Izzati Pakhor Anuar, <u>Hanida Abdul Aziz</u>
AE014	An Assessment of the Effectiveness of Coordination Processes in Global Software Development Projects: Model Formulation	<u>Anusuyah Subbarao</u> , Mohd Naz'ri Mahrin, and Nasreen Khan
AE015	Preparation and Evaluation of Anionic Flocculants for Lead Ions Removal in Water	Fuad Mohamad, Muhammad Faqih Rosli and Nurulhidayah Salamun
AE016	Cloud-Based Water Quality Monitoring System for Marine Hatchery Using IoT	Eva Chowdhury, <u>Siti Hasnah Binti Tanalol</u>
AE017	Synthesis, Characterisation and Weight Loss Study of Cu(II) N-Methylcyclohexyl and Cu(II) N-Ethylcyclohexyl Dithiocarbamates Complexes: Corrosion Study	Nur Alia Atiqah Alias, Siti Hajar Yaacob, Sabariyah Zainal, Sheikh Ahmad Izaddin Sheikh Mohd Ghazali, <u>Nur Nadia Dzulklifi</u>
AE018	Performance evaluation of various plastic waste as aggregate replacement in cement brick	<u>Nur Hanis Zulkernain</u> , Paran Gani, Ng Chuck Chuan, Turkeswari Uvarajan
AE019	Mechano-antibacterial Nanostructure Mechanism on The Wings of Two Species of Tropical Cicada	Celine Ng Boon Yuan, and <u>Charles S. Vairappan</u>
AE020	The Diet of Water Monitor Lizards as an Indicator to the Resilience of a Semi-Urban Ecosystem	<u>Ikram Zuraini</u> , Maizah M. Abdullah, Uzair Rusli and Juan Lei

AE021	Synthesis of MoO <sub>3</sub> from different precursor via CBD for optical gas sensing application	Chua Wen Hong, Mohd Hanif Yaacob, Tan Chou Yong And Ong Boon Hoong
AE022	Assessment of Mangrove Foliar Diseases in Setiu Wetlands and Kerteh, Terengganu, Malaysia.	Azwani Sahibu, Siti Nordahliawate M.S.S., Maizah M. Abdullah
AE023	Removal of Tetracycline Antibiotics residues from Environmental Water using Magnetic-Deep Eutectic Solvents Adsorbents	Clayrine Shima Lasu, Noorfatimah Yahaya and Nur Nadhirah Mohd Zain
AE024	Biosynthesis of titania nanoparticles from the extract of Deinbollia pinnata leaves and its photocatalytic activity in the photodegradation of organic pollutant	Sheela Chandren, Yakubu Rufai and Norazah Basar
AE025	Workability and Compressive Strength of Lightweight Aggregate Concrete Containing Crushed Cockle Shell as Partial Fine Aggregate Replacement.	Hanis Nadiah Ruslan, Khairunisa Muthusamy, Sharifah Maszura Syed Mohsin
AE026	Developing a Digital Workplace Framework to Increase Research Productivity at Universities: The Role of Mobile Messaging Apps During the Covid-19 Pandemic	Tuan-Hock Ng, Ying-San Lim, Chun-Teck Lye, Kar-Hoong Chan, and Shir-May Ooi
AE027	Emergence Of Multi-Drug Resistant Pseudomonas Aeruginosa Strains From A Malaysian Tertiary Hospital	Kalaivani Kalai Chelvam, Cindy Teh Shuan Ju, Jamunarani Vadivelu and Kumutha Malar Vellasamy
AE028	Solubility Study of Flexirubin Pigment isolated from Chryseobacterium artocarpi CECT 8497 in Bio-Based Solvents	Noor Adyanti Rusdi, Lim Yong Hui, Nurhidayah Hassan, Siti Aminah Setu
AE029	Colour Palette Descriptors for Ethnicity Classification of Pedestrians in CCTV Footage	Syahmi Syahiran Bin Ahmad Ridzuan, Dr Zaid Bin Omar, Dr Usman Ullah Sheikh
AE030	Physicochemical properties of Peninsular-Malaysian peat	Khairulmazidah Mohamed, Leong Yin Hui, Nur Atirah Ghazali and Mardiana Saaid
AE031	Nano-modification of low molecular weight phenol formaldehyde (LMwPF) with montmorillonite nanoclay for bamboo treatment	Siti Norasmah Surip & Mohd Khairun Anwar Uyup
AE032	An Interactive Virtual Reality Tourism For UMS Visitor Using Gamification	Jocelyn Joyce Benjamin, Aslina Baharum, Farhana Diana Deris, Noorsidi Aizuddin Mat Noor, Ismassabah Ismail
P073	Green and Sustainable Chemistry Using Eco-friendly material	Chia Poh Wai and Nur Aimi Aqilah Binti Ahmad Ruslan
P067	The Effect of Light Pollution on Nocturnal Insect's Acoustic Activity in Min House Camp using GIS Spatial Model	Ahmad Solihin Sira Juddin, Roslan Umar, Norhayati Ngah
P074	Synthesis and Recovery Techniques of Surfactin from Bacillus subtilis W13 for Crude Oil Dispersion	Chan Mei Shan, Magaret Sivapragasam, Nur Mashitah Mustaffa Albasre
P079	Isolation of Hydrocarbon-Degrading Microorganisms from Shores of Timah-Tasoh Dam	Lo Boon Sin and Mohd Faidz bin Mohamad Shahimin
P076	Fe <sub>3</sub> O <sub>4</sub> -Zeolite as a Heterogeneous Catalyst of Fenton for Ofloxacin Degradation	Alamri Rahmah Dhahawi Ahmad, Saifullahi Shehu Imam, Wen Da Oh and Rohana Adnan
P061	Technology Acceptance Model for Social Media Use to Communicate Science	Keng Teck-Ee, Cheng Ming-Yu and Hen Kai-Wah
P109	Ceria Nanotubes Photocatalyst for Degradation of Paraquat Dichloride	Abubakar Garba Ashiru, Susilawati Toemenr, Juan Matmin and Wan Azelee Wan Abu Bakar
P082	An alternative microextraction technique for the determination of bisphenol A in environmental water	Muhammad Nur' Hafiz Rozaini & Sangeetha Siva
P068	Forest biomass and ecosystem productivity in tropical forest	Mohd Afzanizam M, Jeyanny, V, Azian, M & Wan Rasidah ,K
P114	Graphene oxide-poly lactic acid nanocomposite for the removal of hazardous dyes from contaminated water	Wei Lun Ang and Alireza Nouri
P062	Effective Phytoremediation Of Heavy Metal Contaminated Landfill Soil Using Consortium Of Alocasia Calidora And Filamentous Fungi	Auwalu Hassan, Agamuthu Pariatamby, Innocent C. Ossai and Fauziah Shahul Hamid

P116	Moving Bed Biofilm – Membrane Bioreactor For Treatment of Palm Oil Mill Effluent	Raja Ehsan Shah, R.S.S., <u>Sulaiman, S.</u> , Rahim, R. and Mok, Y.J.
P111	Survivability Of Plastic Eating Mealworm (Coleoptera: Tenebrio Molitor) Ingesting Marine Source Expanded Polystyrene	<u>Wahizatul Afzan Azmi</u> , Corina Yeo Kiat Qie and Yusof Shuaib Ibrahim.
P063	Thermal Mixing Evaluation on Carrageenan-Polylactic Acid (PLA) Film	Nor Amira Othman, Nur Alia Pentaris, Nurul Aini Mohd Azman, Noor Fitrah Abu Bakar, Fatmawati Adam
P110	A Conceptual Perspective into the Application of Digital Video on Mobile in Arabic Learning	<u>Nurul Azni Mhd Alkasirah</u> , Mageswaran Sanmugam and Mariam Mohamad
P086	Nutritious Menu System For Malaysian Religious (Tahfiz) Primary School Children: Improving Good Memories	Azila Md Sudin, <u>Suliadi Firdaus Sufahani</u> , Ismail
P087	Additive Programming For Modelling Malaysian Primary School Diet Problem: Autism Children	Fairuz Bahirah Baharom, <u>Suliadi Firdaus Sufahani</u>
P092	Computational Survey And Coefficient On Understanding The Homebuyers' Preference And Housing Affordability	Gan Fui Yee, <u>Suliadi Firdaus Sufahani</u>
P093	Malaysian Secondary Boarding School Menu Planning System	<u>Suliadi Firdaus Sufahani</u> , Nadirul Hasraf Mat Nayan, Faiz Isma
P105	Maximize The Utilization Of Operation Theatre In Johor's Hospital Using Optimization Method	Low Qiau Han, <u>Suliadi Firdaus Sufahani</u>
P088	Mutual Information Method In Combination Model Selection For Forecasting Tourist Arrival	Md Maarof M.Z., Nojumuddin N.S., Baharrudin M.H., Abu Bakar N.A., Mad Saad M.F., <u>Sufahani S.F.</u>
P132	Nutritious Planning And Scheduling For Breast Cancer Patient With Optimization Methods	Ong Ai Lee, <u>Suliadi Firdaus Sufahani</u>
P115	Adsorption Studies of Polychlorobiphenyls (PCBs) over Cellulose Derived from Oil Palm Empty Fruit Bunch	<u>Norena Salleh</u> & Nurulhidayah Salamun
P100	Characterization of Sediment From Shrimp's Pond Farming at Pekan Pahang	Nur Arini, M.K., <u>Nurud, S.S.</u> and Norhidayah, A.
P133	Reinforcement of Cybercrime Legislation to Face the Challenges of Cyber Pandemic in the New Normal	<u>Shereen Khan</u> , Nasreen Khan, Olivia Tan Swee Leng

## TRACK F: AGRICULTURE AND FOOD SECURITY

[https://www.youtube.com/playlist?list=PL7Z0e8rfV4QJT1O3-rBwwMeEalMdoas\\_F](https://www.youtube.com/playlist?list=PL7Z0e8rfV4QJT1O3-rBwwMeEalMdoas_F)

No	Title	Authors (Corresponding author underlined)
AF001	Micropropagation of Bentong Ginger ( <i>Zingiber officinale</i> Rosc.)	<u>Ranjetta Poobathy</u>
AF002	Characterisation of a Live Attenuated <i>Pasteurella multocida</i> B:2 GDH7	Farahani Muhammad Azam, Mohd. Zamri-Saad, Raha Abdul Rahim, Pramote Chumnannpuen, Teerasak E-kobon and <u>Sarah Othman</u>
AF003	Microbial Community, Fungal Suppression and Chemical Properties of Vermicompost Using Spent Mushroom Substrate and Chicken Dung	Lim Wei Cheng, Anusia Thevendaran, Selvi Chellappan, Loh Khye Er, <u>Hoe Yin Chen</u>
AF004	Development of Hazard and Contaminant Traceability Tool for Seafood Industry in Malaysia	Low Xin Yi, <u>Nor Alafiza Yunus</u> , Ida Idayu Muhamad
AF005	Production of Spray-Dried Sea Cucumber ( <i>Cucumaria frondosa</i> ) By-Products	<u>Lee Sin Chang</u> , Nur' Aliah Daud, Nurul Nadia Muhammad, Abdul Salam Babji, Chin Hoi Chan, Chze Chong Tey and Lim Seng Joe
AF006	Novel Use of Jicama Skin as Antioxidant	Hui Qian Chuah, Peng Nian Yew and <u>Pei Ling Tang</u>
AF007	Effect of Extraction Time on the Antioxidant and Anti-diabetic Activities of Mulberry Leaves Extract	Chew Huei Chin, Tan Phui Yee, <u>Tang Pei Ling</u>
AF008	Synthesis and Characterization of 4-Chlorophenylacetic Acid Herbicide Intercalated with Calcium-Aluminium Layered Double Hydroxide through Co-Precipitation Method	Farah Liyana Bohari, Muhammad Alinsan Kamil Mukamil Hamzah, <u>Sheikh Ahmad Izaddin Sheikh Mohd Ghazali</u> and Nur Nadia Dzulkifli
AF009	A review on <i>Pycnarrhena cauliflora</i> and its Synonym	Muhammad Farhan Syakir Nor Azman, Nur Amira Zahidah Zainurin, Adiez Sapura Azmi, Ng Shean Yeaw, <u>Fatimah Salim</u>
AF010	Assessing the potential of biochar as plant growth promoter	<u>Anurita Selvarajoo</u> , Ajit Singh, Kavinesh Nair Manor Muhanin, Te Wei Zun
AF011	Bacterial Wilt by <i>Ralstonia solanacearum</i> : A Destructive Disease in Many Crops	<u>Fauziah Abu Bakar</u>
AF012	Organoleptic Evaluation and Determination of Watermelon ( <i>Citrullus Lanatus</i> ) Quality Based on Flesh Samples Between Post-Harvest Day 4 and Post-Harvest Day 8.	Nur Shafinaz Mohamad Salin, Mohamad Azim Aziz, Najwa Shafiqah Sayadi @ Saidi, Hairil Rashmizal Abdul Razak, <u>Wan Mazlina Md Saad</u>
AF013	Screening Of Lignin-Degradation Activity And Amplification Of Dyp Gene In Local Strain <i>Rhodococcus</i> : Upcycling The Agrowaste	<u>Hazeeg Hazwan Azman</u> , Muhammad Haziq bin Mohd Azmi, Marini Ibrahim, Nor Suhaila Yaacob, Maegala Nallapan Maniyam, Mohd Fadzli Ahmad and Hasdianty Abdullah

AF014	Antioxidant Activity Of Banana Leaves (Musa Acuminata) Extract	<u>Krishna Veni Veloo</u> & Rozita
AF015	Fractionation of Enzymatically Hydrolysed Edible Bird's Nest Glycopeptides and its Properties	<u>Seng Joe Lim</u> , Poh Kei Chong, Sue Lian Mun, Lee Sin Chang and Abdul Salam Babji
AF016	Development of Hazard and Contaminant Traceability Tool for Seafood Industry in Malaysia	Low Xin Yi, <u>Nor Alafiza Yunus</u> , Ida Idayu Muhamad
AF017	Antioxidant Activities and Useful Phytochemicals Potential: Red, Green or Brown Seaweed is the Best?	Nurul Najeetha Hairuddin, Nor Izzati Husna Noorhisham and <u>Zetty Norhana Balia Yusof</u>
AF018	Determination of pesticide residues in food samples using surfactant-based liquid-liquid microextraction	Vasagee Elencovan, Noorfatimah Yahaya, <u>Nur Nadhirah Mohamad Zain</u>
AF019	Comparative Callogenesis Assessment in Leaf and Endosperm Explants of Barringtonia racemosa L.	<u>Nurul Izzati Osman</u> , Norrizah Jaafar Sidik, Asmah Awal
AF020	Amounts of Toxic Heavy Metals in Perna viridis Mussel from Kampung Pasir Putih (Pasir Gudang, Johor), Malaysia	Timothy Gandu Ali, <u>Aemi Syazwani Abdul Keyon</u> and Naji Arafat Mahat
AF021	Preliminary Expression of Optimized Insect Cuticle-Degrading Serine Protease Gene from Entomopathogenic Fungus Beauveria bassiana in Insect Cell	Muhammad Azharuddin Azali, Salmah Mohamed, Azian Harun, Shahrarum Shamsuddin, <u>Muhammad Farid Johan</u>
AF022	The Promotion of Food Security through the Minangkabau Land in Negeri Sembilan	<u>Shamini Kandasamy</u> , Angelina Anne Fernandez, Kho Guan Khai, Rozitaayu Zulkifli
AF023	Understanding Of Readiness Factors Of Palm Oil Smallholders' Inclination Towards Malaysia Sustainability Palm Oil (MSPO) Implementation	<u>Zanurul Huzaima Zainudin</u> , Amer Hamzah Jantan, Fazlin Ali, Dahlia Zawawi and Zaki Aman
AF024	Interaction Between Zinc Oxide Nanoparticles And Centella Asiatica Plant	<u>Noor Anilizawatima Sulong</u> , Aishah Adam, M.Rusop, Hannis Fadzillah Mohsin, Mohd Shihabuddin Ahmad Noorden
AF025	Luminescent Nanoparticles from Cocoa Pod Husks as Fungicides	Ashreen Norman, <u>Che Azurhanim Che Abdullah</u> & Ahmad Kamil Mohd Jaaffar

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