

IRNI-IPoPS 2021  
28<sup>th</sup> – 29<sup>th</sup> Sept '21

International Research Network Initiative (IRNI)  
&

International Postgraduate Conference on  
Pharmaceutical Sciences (IPoPS) 2021

“Exploring Present Challenges and  
Future Advancements in Pharmaceutical  
Sciences”

Organised by



UNIVERSITI  
TEKNOLOGI  
MARA

Fakulti  
Farmasi

Co-organised by



INTERNATIONAL MEDICAL UNIVERSITY  
MALAYSIA



東京理科大学  
TOKYO UNIVERSITY OF SCIENCE

Partner universities





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# PREFACE

Dear participants,

Welcome to the 2<sup>nd</sup> International Research Network Initiative & the 8<sup>th</sup> International Postgraduate Conference on Pharmaceutical Sciences Virtual Joint Symposium.

The International Postgraduate Conference on Pharmaceutical Sciences (IPoPS) was initially launched in 2012 by postgraduate students and academic staffs of the Faculty of Pharmacy at Universiti Teknologi MARA (UiTM), Malaysia. Following its inception, IPoPS has evolved and expanded, partnering with the School of Pharmacy, International Medical University (IMU), Malaysia, and Faculty of Pharmaceutical Sciences, Tokyo University of Science (TUS), Japan, to successfully organise seven IPoPS events between 2012 to 2020. Similar to many academic conferences, IPoPS was conceived to promote opportunities for students to share knowledge and ideas, as well as a platform for networking. What sets IPoPS apart is the fact that it is organised by students, for students.

On the other hand, the International Research Network Initiative (IRNI) was established by the Faculty of Pharmacy, UiTM in 2020 to kickstart new collaborative research efforts i.e., grant acquisition, publications, postgraduate student recruitment. IRNI started out as a half-day online interactive session in December 2020 meant for the faculty's partnering universities in ASEAN countries to get to know each other. Consequently, this has bloomed to further collaboration of sorts, culminating in this symposium, to further showcase research efforts and expertise of IRNI's partnering universities.

# PREFACE

This year, we are pleased to host this very first joint symposium between IPoPS and IRNI, a 2-day programme arranged to provide participants with opportunities to share valuable knowledge, showcase latest research findings and ultimately a networking platform for students and researchers alike. This symposium brings together some 170 participants from 6 countries, representing academicians, researchers, industry professionals and students. We are delighted to have several speakers from prominent universities namely Queen's University Belfast, Institut Teknologi Bandung, Mahidol University Thailand, Gandhi Institute of Technology and Management, University of Santo Tomas, TUS and Juntendo University Japan giving talks throughout this two-day event.

We would like to extend our gratitude to the invited speakers, our co-organisers (School of Pharmacy IMU and Faculty of Pharmaceutical Sciences, TUS) and all participants for your support in making this symposium a success. We wish you a pleasant and fulfilling time.



# WELCOMING REMARKS

## **CHAIRPERSON IRNI-IPoPS 2021**

DR. SITI ALWANI ARIFFIN  
Faculty of Pharmacy, Universiti  
Teknologi MARA



I am indeed honoured to extend a warm welcome to participants of the Virtual International Research Network Initiative (IRNI) and International Postgraduate Conference on Pharmaceutical Sciences (IPoPS) 2021. This virtual joint symposium is jointly co-organised with Tokyo University of Science (TUS) Japan and International Medical University (IMU) Malaysia with the aim to promote collaboration among academicians, healthcare practitioners, industry professionals and students in research related to the pharmaceutical sciences field. To further create fruitful collaboration opportunities, we have invited prominent speakers from Queen's University Belfast (QUB) UK, Institut Teknologi Bandung (ITB) Indonesia, Mahidol University Thailand, Gandhi Institute of Technology and Management (GITAM) India, University of Santo Tomas Philippines and Juntendo University Japan. The theme of this year's conference is "Exploring present challenges and future advancements in pharmaceutical sciences", I It is my hope that this conference will serve as a platform for our participants to share cutting-edge technologies and ideas to improve our future health care system.

# WELCOMING REMARKS

A warm welcome to all speakers from Japan, Indonesia, Thailand, India, Philippines, and of course, Malaysia. SELAMAT DATANG. I thank you all in advance for taking time from your busy schedules to share your precious experiences and knowledge at this conference. I trust all participants will utilise this opportunity to exchange ideas and network for future meaningful collaborations. Young researchers and students, please do take this opportunity to interact with other researchers and actively participate in the conference that will allow you to gain new knowledge and expand your horizon.

On behalf of the Faculty of Pharmacy, I would like to express my sincere appreciation to Universiti Teknologi MARA for the continuous support given to the faculty. I also take this opportunity to acknowledge contributions of co-organisers to this conference, Tokyo University of Science (TUS) Japan and International Medical University (IMU), Malaysia. Last but not least, thank you and congratulations to the organising committee of IRNI IPoPS 2021 for a job well done.

I hope that this conference will be successful and memorable event for all of you.

Have fun and a fruitful time at the conference!

# WELCOMING REMARKS

## ADVISOR

### IRNI-IPoPS 2021

Assoc. Prof. Dr. Shariza Sahudin  
Dean, Faculty of Pharmacy, Universiti  
Teknologi MARA



Dear Speakers and Participants,

It is my pleasure to welcome you to the Virtual International Research Network Initiative (IRNI) and International Postgraduate Conference on Pharmaceutical Sciences (IPoPS) 2021 organised by the Faculty of Pharmacy, Universiti Teknologi MARA together with our co-organisers, the Tokyo University of Science (TUS) Japan and International Medical University (IMU), Malaysia. This virtual joint symposium is aimed to promote collaboration among academicians, healthcare practitioners, industry professionals and students in research related to the pharmaceutical sciences field.

The IRNI-IPoPS 2021 is to be conducted virtually due to the ongoing pandemic situation. Nevertheless, members of the organising committees have worked hard to put together various exciting and engaging knowledge enhancing activities for you. I am also delighted to welcome all the eminent speakers from the UK, Indonesia, Thailand, India, Philippines, and Japan who will be staying with us for the next two days, sharing their expertise, knowledge, and thoughts with the rest of us.

# WELCOMING REMARKS

The theme of this year's IRNI-IPoPS is exploring present challenges and future advancements in pharmaceutical sciences. As we all know innovations and development of new technologies in the various areas of pharmaceutical sciences have significantly accelerated in recent years to meet greater public demand to high quality pharmaceutical expertise and service. This exhilarating environment provides transformative opportunities for academicians, researchers, healthcare practitioners, industry professionals and students in this field to expand their role.

The topics for the plenary talks are specially arranged to discuss the progression agenda and highlight the key themes, trends, and current practices. The five invited lecture sessions will further equip participants with the necessary knowledge and expand the potential collaboration initiatives in the respective research areas. I hope you will enjoy learning, discussing and networking through the two-day virtual platform.

Finally, I would like to take this opportunity to thank the organising committees led by Dr. Siti Alwani, co-organisers and partnering universities who have worked hard to make this conference a successful one. Thank you for your participation and I wish everyone a pleasant and fruitful experience at the Virtual International Research Network Initiative (IRNI) and International Postgraduate Conference on Pharmaceutical Sciences (IPoPS) 2021.

# WELCOMING REMARKS

## CO-ORGANISER IRNI-IPoPS 2021

Assoc. Prof. Dr. Mohd Zulkefeli Mat Jusoh  
Dean, School of Pharmacy, International  
Medical University



Dear participants, welcome to this Virtual International Research Network Initiative (IRNI) and International Postgraduate Conference on Pharmaceutical Sciences (IPoPS) 2021. It is an honour as one of the co-organisers, from the School of Pharmacy, International Medical University (IMU), Malaysia, together with the Faculty of Pharmacy, Universiti Teknologi Mara (UiTM) Malaysia as the main organiser and the Faculty of Pharmaceutical Sciences Tokyo University of Science as a co-organiser of IPoPS, in bringing here another series of IPoPS this year.

The IPoPS 2021 is the 8<sup>th</sup> series, since its inception in the year 2012. It began with the appointment of Prof Shin Aoki from the Faculty of Pharmaceutical Sciences Tokyo University of Science (TUS) Japan, as a visiting professor to the Faculty of Pharmacy, UiTM in 2011, following my attachment (affiliated to UiTM at that time) to TUS as a JSPS postdoctoral fellow in 2008 and a visit by the Dean of Faculty of Pharmacy UiTM at that time, Prof Aishah Adam in 2010 to TUS. This academic collaboration led to a strong and continuous relationship between these two institutions, UiTM and TUS, through various academic activities. One of the activity is the launch of IPoPS in 2012, at UiTM.



# WELCOMING REMARKS

After three series of IPoPS being hosted by UiTM, Malaysia, it went abroad to TUS, Japan, for the first time in 2016. It was another successful IPoPS organised by the young postgraduate students of the Faculty of Pharmaceutical Sciences, TUS, at the end of the winter season. IPoPS 2018 was first organised by IMU after I moved to IMU and since then, IPoPS has now become a conference organised and co-organised by three institutions, by turn, UiTM, IMU and TUS. IPoPS has grown until its present status, as a main and unique platform to provide an opportunity to our young fellow postgraduate students to be exposed and trained in organising an international scientific and academic conference, besides its general objective to promote collaboration among academicians, healthcare practitioners, industry professionals and students in research related to pharmaceutical sciences field.

It is with great hope that IPoPS will keep growing, especially this year we could see the participation of International Research Network Initiative (IRNI) partner universities members; Institut Teknologi Bandung (Indonesia), Queen's University Belfast (UK), Mahidol University (Thailand), Gandhi Institute of Technology and Management (India) and University of Santo Tomas (Philippines).

My sincere appreciation to the Dean, Assoc. Prof. Shariza Sahudin of Faculty of Pharmacy UiTM and entire organising committee IPoPS 2021 for the invitation and best wishes for another successful IPoPS this year before I welcome everyone again next year to the 9th IPoPS 2022 in IMU, Kuala Lumpur, Malaysia. Thank you very much and all the best.

# WELCOMING REMARKS

## **CO-ORGANISER IRNI-IPoPS 2021**

Prof. Dr. Satoru Miyazaki  
Dean, Faculty of Pharmaceutical  
Sciences, Tokyo University of Science



It is my great pleasure to welcome all the participants to the 8th International Postgraduate Conference on Pharmaceutical Sciences (IPoPS2021).

The IPoPS has been held in Universiti Teknologi MARA (UiTM) and International Medical University (IMU), Malaysia, and Tokyo University of Science (TUS), Japan, since 2012. We are very happy and honoured because post- and undergraduate students have been organising this international congress. We appreciate their efforts, hospitality, and contribution to the friendship among TUS, UiTM, and IMU, as well as other universities and organisations in the Asian countries

Unfortunately, IPoPS2020 organised by the postgraduate students of Faculty of Pharmaceutical Sciences, TUS, was cancelled because of the pandemic triggered by COVID19. We still have been in the middle of the pandemic. I, however, believe that IPoPS2021 will be great opportunities to discuss various topics and to get some hints to overcome them in pharmaceutical science. I hope that all the participants will create their own research network and the powerful friendship to the future. We are convinced this symposium will be one of successful and memorable events for all of you.

# — ORGANISING COMMITTEE —

**ADVISOR 1:**

Assoc. Prof. Dr. Shariza Sahudin

**ADVISOR 2:**

Dr. Gurmeet Kaur Surindar Singh

**CHAIRPERSON:**

Dr. Siti Alwani Ariffin

**CO-CHAIRPERSON:**

Ms. Nur Intan Saidaah Mohamad Yusof

**SECRETARY:**

Dr. Siti Syairah Mohd Mutalip

Ms. Naemah Md Hamzah

Mr. Hidetoshi Satoh (TUS)

Mr. Jacky Thien (IMU)

**PROGRAMME BOOK/PUBLICITY/NETWORK/WEB BUREAU:**

Dr. Ruzianisra Mohamed (Head)

Dr. Muhamad Faiz Othman

Dr. Hisyam Abdul Hamid

Dr. Nor Khaizan Anuar

Mdm. Zafirah Liyana Abdullah

Ms. Zakiah Noordin

Mdm. Zaleha Mahadi

# — ORGANISING COMMITTEE —

## **ICT:**

Ms. Norazua Ahmad (Head)  
Mdm. Norhayati Haji Omar  
Ms. Nur Syakila Rohawi  
Ms Umi Kalsom Mohd Bajuri

## **SCIENTIFIC COMMITTEE:**

Dr. Nur Suraya Adina Suratman (Head)  
Prof. Dr. Kalavathy Ramasamy  
Assoc. Prof. Dr. Fazlin Mohd Fauzi  
Assoc. Prof. Dr. Meor Mohd Redzuan Mohd. Affandi  
Dr. Hasseri Halim  
Dr. Nor Hayati Abu Samah  
Dr. Mahmathi Karuppanan  
Dr. Nurul Aqmar Mohd Nor Hazalin  
Ms. Nursyamila Shamsuddin  
Ms. Siti Fatin Farhanah Othman

# PROGRAMME

## 28<sup>th</sup> September 2021 (DAY 1)

### 0830 h **Opening Ceremony**

[Doa recitation]

Mr. Mohammad Humayoon Amini

[Welcoming Remarks]

Dr. Siti Alwani Ariffin, *Chair IRNI & IPoPS 2021*

Prof. Dr. Satoru Miyazaki, *Dean of Faculty of Pharmaceutical Sciences, Tokyo University of Science, Japan*

Assoc. Prof. Dr Mohd Zulkefeli Mat Jusoh, *Dean, School of Pharmacy, International Medical University (IMU), Malaysia*

[Officiating Remarks]

Assoc. Prof. Dr Shariza Sahudin, *Dean, Faculty of Pharmacy, Universiti Teknologi MARA (UiTM), Malaysia*

[Corporate Video]

[Traditional dance presentation]

*“Zapin Tanjung Labuh” performed by the students from Faculty of Film, Theatre and Animation, UiTM.*

*Coordinator: Mr. Amandus Paul Panan*

*Choreographer: Mr. Khairulazhar bin Mohtar @Kerolmohtar*

[Group Photo]

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### 0910 h **Plenary 1** by Tokyo University of Science (TUS) Japan

**Speaker:** Prof. Dr. Takehisa Hanawa

**Title:** *Development and Characterization of Patient-Friendly Preparations*

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# PROGRAMME

## 28<sup>th</sup> September 2021 (DAY 1)

1000 h **Invited lecture** by Institut Teknologi Bandung (ITB) Indonesia

**Speaker:** Dr. Muhammad Insanu

**Title:** *Standardization of Sida Rhombifolia Extract from 4 Different Areas of West Java Using a Metabolomic Approach*

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1040 h

### **BREAK**

Poster session (pre-recorded)

*Link will be provided via the chat box during the session*

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1100 h **Oral presentation session 1** (live session) breakout sessions (BS):

**BS 1** - Clinical Pharmacy & Pharmacy Practice

**BS 2** - Pharmaceutics & Pharmaceutical Technology

**BS 3** - Pharmacology & Toxicology

**BS 4** - Medicinal & Pharmaceutical Chemistry

**BS 5** - Other Fields: Pharmaceuticals, Nutraceuticals, and Cosmetic Sciences

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1300 h

### **LUNCH BREAK**

Poster presentation (pre-recorded)

*Link will be provided via the chat box during the session*

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1400 h **Plenary 2** by International Medical University (IMU), Malaysia

**Speaker:** Dr. Lee Choy Sin

**Title:** *The Emergence of Synthetic Polymers from Renewable Feedstocks for Biomedical and Pharmaceutical Applications*



# PROGRAMME

## 28<sup>th</sup> September 2021 (DAY 1)

1450 h      **Invited lecture** by Queen's University Belfast (QUB), United Kingdom

**Speaker:** Dr. Raghu Raj Singh Thakur

**Title:** *Understanding Challenges and Developing Innovative Drug Delivery Systems in Treating Ocular Disorders*

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1530 h

**End of DAY 1**

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# PROGRAMME

## 29<sup>th</sup> September 2021 (DAY 2)

0830 h **Plenary 3** by Universiti Teknologi MARA (UiTM), Malaysia

**Speaker:** Prof. Dr. Teh Lay Kek

**Title:** *Empowering Precision Health in Building a Healthy Nation*

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0920 h **Invited lecture** by Mahidol University, Thailand

**Speaker:** Dr. Pakatip Ruenaroengsak

**Title:** *The Development of 3D-Liver Models for Drug Toxicity Study and Cancer Drug Delivery*

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1000 h **Invited lecture** by Gandhi Institute of Technology and Management (GITAM), India

**Speaker:** Dr. Sinoy Sugunan

**Title:** *Small Molecule Inhibitors of miRNAs: An Alternate Approach to Elicit Neuroprotection*

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1040 h

### **BREAK**

Poster session (pre-recorded)

*Link will be provided via the chat box during the session*

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1100 h **Oral presentation session 2** (live session) breakout sessions (BS):

**BS 1** - Clinical Pharmacy & Pharmacy Practice

**BS 2** - Pharmaceutics & Pharmaceutical Technology

**BS 3** - Pharmacology & Toxicology

**BS 4** - Medicinal & Pharmaceutical Chemistry

**BS 5** - Other Fields: Pharmaceuticals, Nutraceuticals, and Cosmetic Sciences

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1300 h

### **LUNCH BREAK**

Poster presentation (pre-recorded)

*Link will be provided via the chat box during the session*

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# PROGRAMME

## 29<sup>th</sup> September 2021 (DAY 2)

1400 h **Plenary 4** by Juntendo University, Japan

**Speaker:** Prof. Dr. Mitsue Saito

**Title:** *Drug Access—Are There Strategies to Improve Antiemetic Access?*

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1450 h **Invited lecture** by University of Santo Tomas, Philippines

**Speaker:** Mr. Roi Martin B. Pajimna

**Title:** *Monitoring Neonatal Aminoglycoside Therapy in a Resource-Limited Setting: Gaps and Opportunities*

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1530 h Sneak peek - IPoPS 2022

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1540 h **Closing and Award Ceremony**

Award presentations

[Co-chair remarks]

Ms. Nur Intan Saidaah Mohamad Yusof, *Co-Chair IRNI & IPoPS 2021*

[Closing remarks]

Assoc. Prof. Dr Shariza Sahudin, *Dean, Faculty of Pharmacy, Universiti Teknologi MARA (UiTM), Malaysia*

**End of programme**

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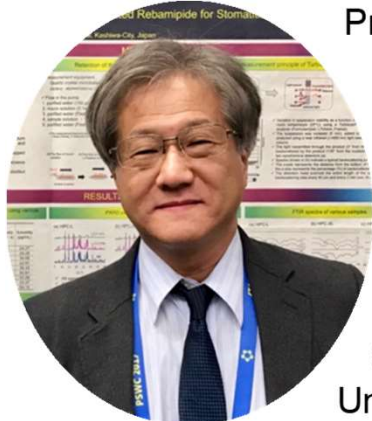
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# SPEAKER PROFILES (PLENARY)

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Professor Takehisa Hanawa is currently a Professor from the Faculty of Pharmaceutical Sciences, Tokyo University of Science, Japan (2012 till present). He obtained his Ph.D from Chiba University on 1986. Previously, he worked as a pharmacist and researcher at Tokyo Women's Medical University (1991- 1998) and briefly as an Assistant Professor at the Faculty of Pharmaceutical Sciences, Chiba University (1998). He was then appointed as the Vice Director of the Department of Pharmacy, University of Yamanashi Hospital, Japan from 1998-2012. In 2001, he was promoted to an Associated Professor at the University of Yamanashi. He specializes in Pharmaceutical Technology and pre-formulation study mainly for wound healing. His research area is focused on the development of semi-solid preparations, liquid preparations, and patch preparations, which are required in actual medical practice. He alongside his research team are also conducting research on nanoparticulation to improve the solubility and dispersibility of drugs in these formulations.



Dr Lee Choy Sin is a Senior Lecturer and the Head of Department for Pharmaceutical Chemistry, at International Medical University. She obtained her Bachelor of Applied Chemistry from University of Malaya in 2003 followed by a Ph.D in Chemistry from the same university in 2008. After graduating, she was appointed as lecturer at the IMU. She has 18 years of research experience in synthesis of green polymers from renewable resources for pharmaceutical, biomedical and industrial applications. She specialises in organic synthesis, oleochemistry, green chemistry, and polymer chemistry. She obtained several national and international grants which includes, ERGS and FRGS from the Ministry of Higher Education (MOHE), Ministry of Science, Malaysia, Malaysian Palm Oil Board (MPOB) Research and Development grant, MPOB-Graduate Students Assistantship Scheme (GSAS), and the Japan Toray Science Fund. She has also won several awards and filed a few patents for her research inventions. Dr Lee Choy Sin is the recipient of the Malaysian Oils Scientists' and Technologists' Association (MOSTA) Young Scientist Award 2018 for her outstanding contribution in oils and fats research. To date, she has published 23 articles in peer-reviewed and high impact journals.





Professor Dr. Teh Lay Kek is currently the Deputy Director of Integrative Pharmacogenomics Institute, (iPROMISE) at Universiti Teknologi MARA, Malaysia. She has been a lecturer and research fellow at Universiti Teknologi MARA since 2003. Her research interests include precision health, experimental and clinical pharmacogenomics, metabolomics; while she teaches in topics such as clinical pharmacokinetics, clinical pharmacy concept, research instrumentation, metabolomics and pharmacogenomics. She is actively involved in several scientific communities and holding several important positions such as President of Malaysian Metabolomics Society, co-chair in Developing World, Pharmacogenomics Research Network, grant evaluator in Ministry of Higher Education (Malaysia) and the founding member of Pharmacogenomics Centre (PROMISE). She has secured numerous grants fundings from the Malaysian Ministry of Higher Education (MOHE) and Ministry of Science, Innovation and Technology (MOSTI) including LRGS, RACER, ERGS and FRGS. She has two patents under her name (2 approved and 1 filed) and several copyrights. She has also gain numerous research awards in both local and international.



Professor Dr Mitsue Saito has a Medical Degree from the Faculty of Medicine, Chiba University (1984) and Ph.D from the University of Tokyo (1996) after coming back from 2-year laboratory work at Dept. of Cell biology in MD Anderson Cancer Center (1990-1992). She joined the Department of Breast Surgery, the Cancer Institute Hospital in Tokyo from 1996-2002. She then became an Assistant Professor, at the Department of Endocrine Surgery, the University of Tokyo (2002-2006). Dr Saito was promoted to a Professor in 2012 at the Department of Breast Oncology, Juntendo University. She specializes in breast surgical oncology and mainly on supportive care in cancer. Dr Saito also holds various important positions. She is the chairperson of Evaluation committee for CINV Guideline of the Japan Society of Clinical Oncology, Director of the Japan Surgical Society, Director of the Japanese Medical Science Federation, Executive secretary of the Japanese Association of Medical Science, an Evaluation Committee member of Japan Agency for Medical Research and Development (AMED), vice president of Japanese Association of supportive care in cancer and also a guideline committee member of Multinational Association for Supportive Care in Cancer (MASCC) in the field of CINV(chemotherapy induced nausea & vomiting). She is also a Councillor of the Japanese Cancer Association and the Japanese Breast Cancer Society. And one of the most unique parts of her career is that she is an MBA holder.

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# SPEAKER PROFILES (INVITED)

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Dr Muhammad Insanu obtained his Bachelor of Pharmacy degree from the Institut Teknologi Bandung, Indonesia. He pursued his Master degree in Pharmacy at the same institute and continued his PhD at the University of Groningen, Netherland. He specializes in phytochemistry and his research interest includes isolation of bioactive compounds from natural products. He is now an instructor at the Institut Teknologi Bandung and has published numerous articles in both local and international journals such as Asian Journal of Pharmaceutical Clinical Research International Journal of Pharmacy and Pharmaceutical Sciences, Phytochemistry Reviews and Acta Pharmaceutica Indonesia.



Raghu Raj Singh Thakur is a professor in the field of pharmaceutics at the School of Pharmacy, Queen's University Belfast. He is also the Founder, Director, and Chief Technology Officer at the Re-Vana Therapeutics Ltd. He obtained his B.Pharm from Jawarhalul Nehru Technological University (India), M.Sc in Pharmaceutical Technology from the University Sains Malaysia and PhD (Drug Delivery) from the School of Pharmacy, Queens University Belfast (United Kingdom). He is highly prolific and serves as a member of the Editorial Board for several journals. He has also written a few book chapters on drug delivery systems. He has generated a total research income of approximately 30 million Ringgit Malaysia either as the Principal investigator or in collaboration with his colleagues. He is passionate to drive research on advanced long-acting biodegradable drug delivery systems and minimally invasive medical devices for localised drug delivery. In addition, he has 3 patents on ocular compositions.







Dr Sinoy Sugunan obtained his bachelor's degree in Pharmaceutical Sciences from Mahatma Gandhi University, Kerala, India. He secured Scholarship from Government of Kerala, India and went on to complete his Master in Pharmacy at Government Medical College Trivandrum, University of Kerala, India. Dr Sinoy then pursued his PhD in Biotechnology at National Institute of Technology Calicut, India. He also received Swiss Government Excellence Scholarship to carry out Doctoral research work at Department of Biomedicine, University of Basel, Switzerland in 2014-2015. He is now an Assistant professor at the GITAM School of Pharmacy, Hyderabad, Telangana, India. His research area includes neurotherapeutics, computational biology as well as drug design. Through his research expertise he have obtained various skills and techniques in animal handling (e.g., rat & frog dissection), organotypic hippocampal slice culturing, organic synthesis, mammalian cell culture, cell-based assays, pharmacological assays, molecular genomic assay (e.g., RT-PCR, miRNA assays, RNA and DNA isolation), immunohistochemistry, western blotting, fluorescent microscopy, UV spectroscopy, and IR spectroscopy ChemSketch, Cytoscape, Schrodinger's Maestro, GOLD, GROMACS, Autodock, Homology modelling, Qikprop, and ADMET profiling.



Mr. Roi Martin B. Pajimna is an Instructor at the Faculty of Pharmacy, University of Santo Tomas, Manila, Philippines. He obtained his B.Pharm degree from the School of Pharmacy, Centro Escolar University - Manila in 2015. He is currently undergoing his PhD in Pharmacy at the UST Graduate School, where he also obtained his M.Pharm degree in 2018. He is an active member of the Philippine Pharmacists Association, Philippine Association of Colleges of Pharmacy, Young Pharmacists Group – Philippines, Colegio Medico-Farmaceutico de Filipinas Incorporada, and just recently, the National Research Council of the Philippines – Pharmaceutical Sciences Division. Currently, he is holding an Assistant Program Coordinator's position for the UST Doctor of Pharmacy Program and is involved in mentoring students for their research projects. His research interest is geared towards pharmacy practice and public health pharmacy.







Dr Pakatip Ruenraroengsak obtained her Ph.D in nanotechnology for drug delivery from the School of Pharmacy, University of London in 2003. She specialises in cancer drug targeting, cancer nanotheranostics and pulmonary drug delivery. During her Ph.D, she focused on dendrimer/dendron - based nanocarrier systems for drug and gene delivery which included dendrimer synthesis, physicochemical characterization, bioformulation, drug/gene encapsulation, cellular toxicity, cellular distribution. She, then, joined the National Heart and Lung Institute (NHLI), UK in 2008 as a MRC-funded post-doctoral researcher and where she continued to develop her research on engineered nano-size materials for pulmonary drug delivery using human primary culture model as air-liquid interface for pulmonary drug transport. She also worked as a senior researcher between the Department of Materials & London Centre for Nanotechnology and Hamlyn Centre for Robotic Surgery, Department of Surgery and Cancer at Imperial College London between 2011-2018. Her work focused on pulmonary drug delivery, nanotheranostics and nanomedicines. In 2018, she was appointed as lecturer in Pharmaceutical Science and Nanomedicine at Division of Pharmaceutical Technology, Faculty of Pharmacy, Mahidol University, Thailand. She evaluated gold-based nanostars as theranostic agents for cancer diagnostic and treatment by using triple negative breast cancer and drug resistance breast cancer cells. She also developed 3D human liver and lung models for drug screening and toxicity studies. She has published in high impact factor journals such as Nanoscale, ACS Nano, Nano Letters, Nanotoxicology, Nanomedicine, Biomaterials, Journal of Controlled Release and Particle and Fibre Toxicology from 2010-2020.



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# ORAL PRESENTATION

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# 28<sup>TH</sup> SEPTEMBER 2021

## BREAKOUT SESSION 1: CLINICAL PHARMACY AND PHARMACY PRACTICE

No	Time	Presenter	Title
1	1100 h	Dr. Carol Geraldine C. Pablo	Aim, Adapt, Innovate and Manage: The Pandemic Response of Community Pharmacists: A qualitative study
2	1115 h	Mrs. Cindra Tri Yuniar	The Pharmacists' Perspective on Benefits and Features of Telepharmacy Service
3	1130 h	Dr. Fares Mohammed Saeed Muthanna	Fatigue and Fatigue Treatment of Breast Cancer Patients and its Impact on their QOL
4	1145 h	Prof. Dr. Noorizan Binti Abd. Aziz	Medication Administration Errors and Patients Outcomes in Paediatric Patients in a Hospital of Malaysia: A Direct Observational and Intervention Study
5	1200 h	Prof. Dr. Yahaya Hassan	Incidence and Predictors of Acute Kidney Injury (AKI) in a Tertiary Care Hospitalized Patients Receiving Intravenous Colistin
6	1215 h	Prof. Dr. Zabidah Binti Ismail	The Awareness of Proper and Safe Disposal of Unused Medications from Household among Health Care Professional Students in a Local University
7	1230 h	Ms. Zakiah Mohd Noordin	A Study on Medication Wastage Awareness and Disposal Practices of Unused and Expired Medicines among Adults in Terengganu, Malaysia

# 28<sup>TH</sup> SEPTEMBER 2021

## BREAKOUT SESSION 2: PHARMACEUTICS & PHARMACEUTICAL TECHNOLOGY

No	Time	Presenter	Title
1	1100 h	Dr. Mumtaz Hussain	Exploring The Use of CAL to Enhance the Teaching and Learning of Pharmacokinetics to Pharmacy Students.
2	1115 h	Dr. Prabhakar Orsu	Multidrug Loaded Reduced Graphene Oxide Electrospun: Fabrication, Controlled Drug Delivery and for Breast Cancer
3	1130 h	Ms. Amina Ahmady	Mussel-inspired Gelatine Films for Buccal Application: GelTA
4	1145 h	Mrs. Aulia UI Hafizah	Characteristics and Stability of Injectable Ibuprofen Nanoemulsion Using Self-emulsification Technique
5	1200 h	Mr. Mohamad Zulfadhli bin Abdul Majid	Skin Whitening Cosmetic: Development of Natural Skin Lighteners
6	1215 h	Mrs. Shahirah Ahamad	Preparation and physicochemical assessment of natural massage bar enriched with watermelon rind extract
7	1230 h	Mr. Wan Anwar bin Wan Nasruddin	Un-ethical Claim Practices in Cosmetic Industry Globally

## BREAKOUT SESSION 3: PHARMACOLOGY & TOXICOLOGY

No	Time	Presenter	Title
1	1100 h	Ms. Liza Yudistira Yusan	Toxicity Test of Chitosan Deacetylation Product from Shell Waste Extract of Portunus Sp.
2	1115 h	Dr. Nurfarhana Ferdaos	10-Hydroxydecanoic Acid Ameliorates Cancer-related Fatigue in Tumour-bearing Mice
3	1130 h	Dr. Trivadila	<i>In Vitro</i> Kinetics Pancreatic Lipase Inhibition by Kunci Pepet Extract

# 28<sup>TH</sup> SEPTEMBER 2021

## BREAKOUT SESSION 4: MEDICINAL & PHARMACEUTICAL CHEMISTRY

No	Time	Presenter	Title
1	1100 h	Assoc. Dr. Sadia Sultan	Novel Selective Isolation Procedure for Metabolic Manipulation of Fungi
2	1115 h	Prof. Dr. Shin Aoki	Combinatorial Construction of Metallo-supramolecular Complexes to Mimic Natural Alkaline Phosphatases by the Self-assembly of Functionalized Building Blocks
3	1130 h	Assoc. Prof. Dr. Syed Adnan Ali Shah	<sup>1</sup> H-NMR-based Metabolomics Approach to Explore Metabolic Changes in Multifactorial Diseases
4	1145 h	Dr. Tanaka Tomohiro	Design and Synthesis of Poly(2,2'-bipyridyl) Ligands Directed toward Chelation Therapy of Cancer.

## BREAKOUT SESSION 5: OTHER FIELDS: PHARMACEUTICALS, NUTRACEUTICALS AND COSMETIC SCIENCES

No	Time	Presenter	Title
1	1100 h	Mrs. Hitomi Motomura	Glyoxalase 1 and Protein Kinase C $\alpha$ as Potential Therapeutic Targets for Late-stage Breast Cancer
2	1115 h	Dr. John Shia Kwong Siew	Effects of Chemically Interesterified Palm Olein on Lipid Profiles in Hamsters
3	1130 h	Dr. Rosmadi Mohd Yusoff	Molecular Cloning and Functional Analysis of Novel Lung Cancer Gene by RNA Interference
4	1145 h	Dr. Shoma Tamori	High PKC $\lambda$ Expression is Required for Asymmetric Cell Division of ALDH1-positive Cancer Stem Cells and Indicates a Poor Clinical Outcome in Late-stage Breast Cancer Patients
5	1200 h	Assoc. Prof. Dr. Vellayan Subramaniam	Retrospective Study of Medical Problems among Pet Rabbits from an Exotic Animal Clinic in Kuala Lumpur: A 8-year Study

# 29<sup>TH</sup> SEPTEMBER 2021

## BREAKOUT SESSION 1: CLINICAL PHARMACY AND PHARMACY PRACTICE

No	Time	Presenter	Title
1	1100 h	Ms. Nursyuhadah Binti Othman	A Qualitative Exploration of Diabetes Self-management among Youth and Adolescents with Type 2 Diabetes Mellitus in Malaysia
2	1115 h	Mrs. Siti Hir Huraizah Md Tahir	Audit of Perioperative Antibiotic Prophylaxis in Arthroplasty: Compliance with Malaysia National Antibiotic Guideline 2019
3	1130 h	Mrs. Suraiya Abdul Rahman	An Exploratory Case Study on Halal Pharmaceuticals Built-in Management System from the Malaysian Health Authority's Perspective

## BREAKOUT SESSION 2: PHARMACOGNOSY & PHYTOCHEMISTRY

No	Time	Presenter	Title
1	1100 h	Ms. Ari Sri Windyaswari	The Sterilization Technique for Propagation of Pothos Tenner Wall: A Bio Prospective Indonesian Aquatic Plant
2	1115 h	Mrs. Fitri Ekawasti	Ekstrak Ethanol 96% of Red ginger ( <i>Zingiber officinale rubrum</i> ) and Turmeric ( <i>Curcuma longa</i> ): Analysis of Chemical Components of Essential Oil and Antioxidant Test
3	1130 h	Mr. Mohammad Humayoon Amini	A Simple Purification Strategy of Crude Leaf Extract of <i>Calotropis procera</i> from Salt Impurities Prior to Antibacterial Evaluation <i>In Vitro</i>
4	1145 h	Ms. Narisya Idayu binti Mohd Suhaili	Ethnomedicinal of Malvaceae plants; <i>Hibiscus sabdariffa</i> L.
5	1200 h	Mrs. Noor Anilizawatima Sulong	Optimization of Bioactive Compounds in <i>Centella asiatica</i> using Zinc Oxide Nanoparticles
6	1215 h	Ms. Nurul Bariah binti Jamalludin	Ethnobotanical study of <i>Withania somnifera</i>



# 29<sup>TH</sup> SEPTEMBER 2021

## BREAKOUT SESSION 3: PHARMACOLOGY & TOXICOLOGY

No	Time	Presenter	Title
1	1100 h	Mrs. Evana Kamarudin	<i>In Vitro</i> Wound Healing Potential of <i>Rhodomyrtus Tomentosa</i> Crude Extract and its Fractions.
2	1115 h	Mrs. Harmayumi Wahid	Potential Antioxidant Activity, Cytotoxic and Apoptosis Inducing Effects of Marine Endophytic Fungi Extract on HepG2 Cells
3	1130 h	Mr. Low Jun Sheng	<i>Melastoma malabathricum</i> and <i>Melastoma imbricatum</i> Extracts Accelerate the Wound Healing Activity of Primary Murine Fibroblasts
4	1145 h	Ms. Nelofar Sediqi	Two-pore Channel 2 Enhances Doxorubicin-induced Cytotoxicity in MDA-MB-231 Breast Cancer Cells
5	1200 h	Mrs. Nurhafizah Ibrahim	Effect of <i>Myrmecodia Platytyrea</i> Methanolic Tuber Extract on Hepatocellular Carcinoma-induced SCID Mice
6	1215 h	Mrs. Nurliana binti Abd Mutalib	WRL68 with Overexpression of CYP3A4 SNPs Variants as <i>In Vitro</i> Metabolism-based Model for Drug Interactions.
7	1230 h	Mr. Zhang Shiming	Investigations on <i>Zingiber Officinale</i> var <i>Rubrum</i> Rhizomes Extract in Ameliorating the Metabolic Syndrome in High-fat Diet Fed Male Golden Syrian Hamsters



# 29<sup>TH</sup> SEPTEMBER 2021

## BREAKOUT SESSION 4: MEDICINAL & PHARMACEUTICAL CHEMISTRY

No	Time	Presenter	Title
1	1100 h	Mr. Gota Ishigami	One-pot Synthesis of Cyclic Oligosaccharides by Means of Thioglycoside Donor/Acceptor Units
2	1115 h	Mr. Hidetoshi Satoh	Design, Synthesis and Biological Evaluation of 2-Pyrrolone Derivatives as Radioprotectors Regulating p53 Discovered in Phenotypic Screening
3	1130 h	Mr. Kohei Yamaguchi	Design, Synthesis, and Anticancer Activity of Amphiphilic Anticancer Agents Having Cationic Peptides for the Induction of Programmed Cell Death in Cancer Cells
4	1145 h	Ms. Mak Kit-Kay	Design and Development of New Bicyclic Analogue of Sulforaphane to Induce Nuclear Factor Erythroid 2-related Factor
5	1200 h	Ms. Nur Intan Saidaah binti Mohamed Yusof	<i>In Silico</i> Target Prediction for Methoxyflavones in Neuroinflammation of Alzheimer's Disease
6	1215 h	Mr. Pang Jia Chern	<i>In Silico</i> Evaluation of Hybrid Pharmacophore Design (HPD)-based Ligands as Novel 5-lipoxygenase Inhibitors

# 29<sup>TH</sup> SEPTEMBER 2021

## BREAKOUT SESSION 5: OTHER FIELDS: PHARMACEUTICALS, NUTRACEUTICALS AND COSMETIC SCIENCES

Moderator: TBA

No	Time	Presenter	Title
1	1100 h	Ms. Nor Asyikin Zulkifli	Nicotinic Acetylcholine Receptor Binding Properties of Three-finger Toxin from Cobra: a Computational Approach.
2	1115 h	Ms. Ayaka Ozaki	High p62 and ALDH1A3 Expressions are Associated with Poor Prognosis in Luminal B Breast Cancer
3	1130 h	Mr. Chotaro Onaga	High SLC20A1 Expression is Associated with Poor Prognoses in Claudin-low and Basal-like Breast Cancers
4	1145 h	Ms. Dina Athariah Bahrani	The Dose-effect of IL-6 and GM-CSF that Involved in MDSC Differentiation on MDSC Percentage and Lymphocyte Percentage
5	1200 h	Mrs. Jeallyza Muthia Azra	Efficacy of Powdered Young Coconut Drink on Blood Glucose and Body Weight against Streptozotocin-induced Diabetes in Sprague-Dawley Rats
6	1215 h	Mr. Nur Solehin bin Sulaiman	Application of Response Surface Methodology for Optimization of Parameters in Tomato Extraction Using Maceration Technique
7	1230 h	Ms. Nur Adrin Ahmad Mayzian	Antimicrobial Activity Screening of Marine Endophytic Fungi Extracts Isolated from Local Seaweeds Species

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# LIST OF POSTER PRESENTATIONS

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## CLINICAL PHARMACY & PHARMACY PRACTICE

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Effectiveness and Safety of Empagliflozin: a Retrospective Study.

*Ms. Aina Amanina binti Abdul Jalil*

Knowledge, Attitude and Perception of the Public Towards Minor Ailments Services in Community Pharmacy.

*Mrs. Ezlina Usir*

Thromboembolic Complications in COVID-19: A Review of the Literature.

*Dr. Hanis Hanum Zulkifly*

Public Knowledge and Acceptance for Human Papillomavirus (HPV) Vaccine in Bangi, Selangor.

*Ms. Izzati Abdul Halim Zaki*

Correlation Of Deprescribing with Specific-necessity, Specific-concern, General-overuse and General-harm and with Medication Non-adherence Level Among Elderly at the Geriatric Clinic of a Malaysian Public Hospital.

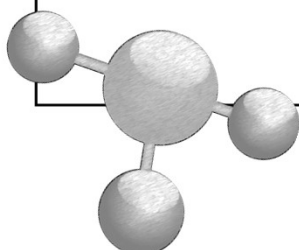
*Mrs. Kamaliah Bt Md Saman*

An Evaluation on Procurement and Expenditure Data Toward Trend of Pharmaceutical Tender Outcomes.

*Prof. Dr. Mohamed Mansor Manan*

Use of Herbal and Dietary Supplements during the Coronavirus (COVID-19) Pandemic: A Survey among Students.

*Dr. Mohd Shahezwan Abd Wahab*





## PHARMACEUTICS & PHARMACEUTICAL BIOTECHNOLOGY

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Kinetics Study of Non-Competitive Inhibition of Iduronate-2-Sulphatase by Chondroitin Dermatan Trisulphate.

*Mr. Affandi bin Omar*

Strategies and Potentials of L-Dopa Nanoparticle Formulation for Nose-to-Brain Delivery: A Review.

*Mr. Muhammad Hazwan Afif Ab Rahman*

Permeation Profiles and Accumulation of Crisaborole in Nanoemulsion Delivery System.

*Mr. Mohd Hafiz Bin Mohd Jaafar*

Physical Characterisation of Xanthorrhizol Creams and Hydrogel Prepared by using Olivem 1000 and Olivem 2020.

*Ms. Nor Aireen binti Abd Rahim*

Development of Adsorbents Incorporated with Collagen Films: A Preliminary Study.

*Dr. Nor Amlizan binti Ramli*

Effect of *Hibiscus rosa-sinensis* Mucilage on the *In-Vitro* Release and Permeation of Caffeine for Transdermal Drug Delivery.

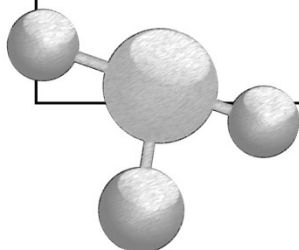
*Dr. Nor Khaizan Anuar*

Study of NPG Nanoemulsions using D-phase Emulsification Method with a Combination of Tocotrienol and Coenzyme Q10 by Different Droplet Sizes: Effect on the Skin Permeation Study.

*Mrs. Noreen Ang Azlan*

Parenteral Nutrition (PN): The Effects of Ultraviolet Radiation Upon Different Delivery Conditions of PN Formulations with Respect to Vitamin Stability.

*Prof. Dr. Siti Norlina Md Said*



## PHARMACEUTICS & PHARMACEUTICAL BIOTECHNOLOGY

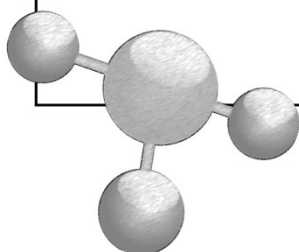
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Design, Formulation and Characterisation of Medicated Herbal Ointment  
Enhanced with Citrus Hystrix DC and Virgin Coconut Oil.

*Dr. Siti Nuurul Huda Mohammad Azmin*

Effects of Various Plasticisers on Water Uptake and Solubility of Gelatine  
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*Ms. Tengku Noral Eadzlin binti Tengku Abdul Halim*



## PHARMACOLOGY & TOXICOLOGY

\*\*\*\*\*

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*Mr. Ahmad Tamim Ghafari*

Acute Toxicity Study of Ethanol Extract of *Staurogyne elongata* in Swiss Webster Mice.

*Mr. Faizal Hermanto*

Neurotransmitter Modulation and Antioxidant Effect of *Evolvulus alsinoides* Extract in Strychnine Induced Convulsions in Mice.

*Assoc. Prof. Dr. Hanish Singh Jayasingh Chellammal*

Effects of Vitamin E and Vitamin C Supplementation on Vitamin E Isomers Levels in Down Syndrome Individuals.

*Mrs. Maziana binti Mahamood*

Inhibition of Tumour Growth by 3, 4, 10-trimethoxystilbene in Human Hepatocellular Carcinoma HepG2 Cells SCID Mouse Xenograft Model.

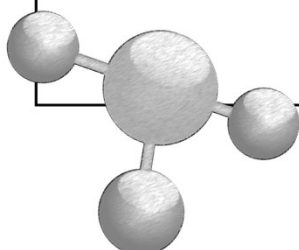
*Assoc. Prof. Dr. Mizaton Hazizul Hasan*

Inhibition Assay of Carbamazepine (CBZ) and Dapsone (DDS) on Peripheral Blood Mononuclear Cells (PBMCs) of Healthy Volunteers.

*Mr. Mohd Ikhwan Bin Ismail*

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*Ms. Norodiyah Othman*



## PHARMACOLOGY & TOXICOLOGY

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Plants of Rubiaceae Family Used in Traditional Medicine: A Review

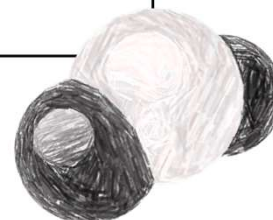
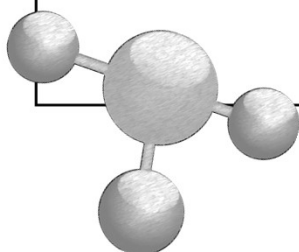
*Ms. Nurshahidah Binti Yusni*

*In Vivo* Effect of Bromelain on *Staphylococcus aureus* Skin Infection in Mice.

*Dr. Reezal Ishak*

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*Mr. Yusuke Kimura*





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*Mr. Chua Bing Wei*

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*Mr. Hironobu Arita*

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*Ms. Lam Ki Yan*

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*Ms. Nur Amirah binti Khirul Anuar*

Innovative Selective and Validated Electrochemical Method for Determination of Flibanserin, a Post-Menopausal Hypoactive Sexual Desire Disorder Drug and its Dosage Form on Carbon Paste Electrode.

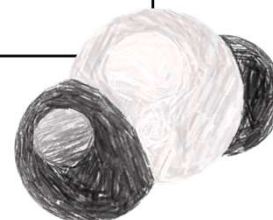
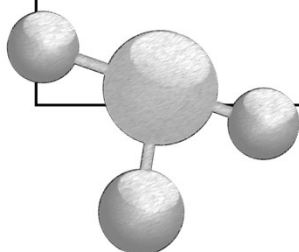
*Dr. Rasha Mohamed Tharwat Eleryan*

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*Dr. Rehab Moussa Tony*

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*Ms. Samantha Valerie Anak Unting*



## PHARMACOGNOSY & PHYTOCHEMISTRY

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*Dr. Hannis Fadzillah Mohsin*

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*Mr. Muhammad Ikhlas Arsul*

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*Dr. Nurhuda Manshoor*

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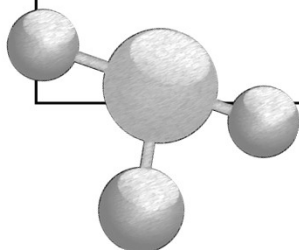
*Mr. Aiman Afif bin Roslan*

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*Dr. Ruzianisra binti Mohamed*

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*Dr. Yuslina Zakaria*



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Prevalence of Insomnia and Stress among Pharmacy Students in  
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*Dr. Azwandi Ahmad*

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*Ms. Chong Yuen Ping*

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*Ms. Hanani Madiha Binti Hasan*

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*Ms. Lutfia IIsahaida bt Abdul Malik*

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*Escherichia coli* and *Bacillus subtilis*.

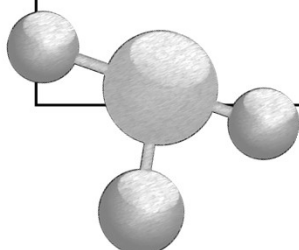
*Dr. Mashani Mohamad*

Effects of Food Restriction on Ovulation in the Sprague Dawley rat.

*Mrs. Massita Nordin*

Potential of Astaxanthin Nanoemulsion in Promoting Brain Neurogenesis

*Ms. Mazzura Wan Chik*



**OTHER FIELDS:  
LIFE SCIENCES, PHARMACEUTICALS, NUTRACEUTICALS &  
COSMETIC SCIENCES**

\*\*\*\*\*

Understanding Alzheimer's Disease Pathogenesis and the Roles of miR-125b.

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Cyclin-Dependent Kinase 4/6 Inhibitors in the Management of Metastatic Breast Cancer: A Systematic Review

*Mrs. Nadia Jalaludin*

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*Mrs. Nur Sabiha Md Hussin*

MicroRNA-Based Therapeutics in Hepatocellular Carcinoma: Involvement of miR-195 and miR-497.

*Mrs. Nursyamila Shamsuddin*

TRPM4 Channel Inhibitor as Potential Treatment for Vascular Dementia.

*Dr. Nurul Aqmar Mohamad Nor Hazalin*

Synthesis of Polyurethane Via a Non-isocyanate Route.

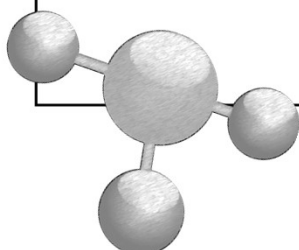
*Ms. Rachel Tan Yie Hang*

CRISPR-Cas9 Vector Construct using Mutant Plasmid Derived from *Streptococcus pyogenes*.

*Mrs. Ruhil Nadirah Che Omar*

Ultrastructure of Nicotine-treated Mice Ovarian Follicles Supplemented with Alpha-tocotrienol.

*Mrs. Saidatul Akhmal binti Khairuddin*



**OTHER FIELDS:  
LIFE SCIENCES, PHARMACEUTICALS, NUTRACEUTICALS &  
COSMETIC SCIENCES**

\*\*\*\*\*

PBOCCA as a Model of Vascular Dementia: Behavioural and Molecular Characterization in Rats.

*Mrs. Siti Fatin Farhanah binti Othman*

Knowledge, Attitude and Perception of Breast Cancer: An Assessment Among Pharmacy Degree Students in UiTM Puncak Alam.

*Dr. Siti Nooraishah Hussin*

Vitamin E in Combination with Chemotherapeutic Drugs in Ovarian Cancer Therapy: A Mini-Review of the Recent 3-Years Publications.

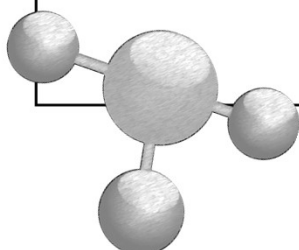
*Siti Syairah Mohd Mutalip*

Physicochemical and Antibacterial Properties of Polycaprolactone/Polydimethylsiloxane/Zirconium Oxide Nanocomposite Films.

*Dr. Then Yoon Yee*

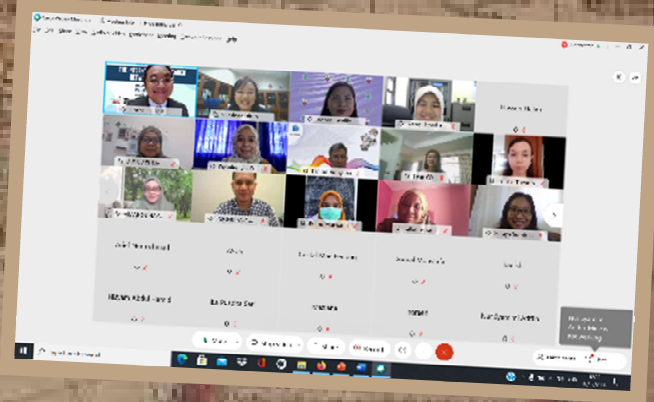
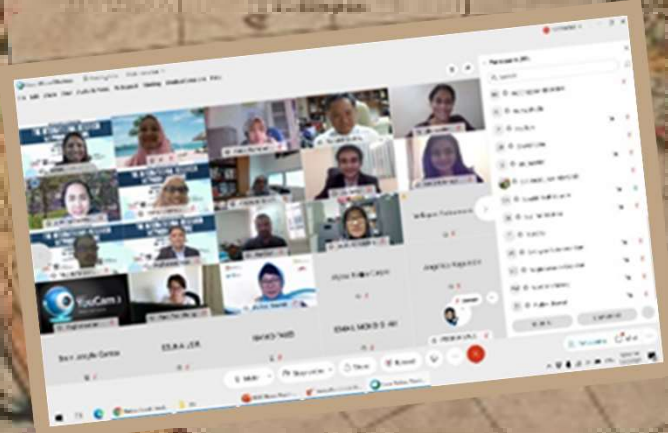
Superhydrophobic Surface Prepared with Graphene/Titanium Dioxide Nanoparticles to Enhance Antifouling Effect of Medical Devices.

*Mr. Wu Xun Hui*



#throwback

# A PICTURE IS WORTH A THOUSAND WORDS





تریمما کاسیه

# Terima kasih

*Hope to see you again*

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