

# Book of Abstract

**THAILAND  
HALAL**  
ASSEMBLY 2021



**The International  
Halal Science and  
Technology  
Conference  
2020-2021  
(IHSATEC):**

**14<sup>th</sup> Halal Science,  
Industry and  
Business (HASIB)**

Virtual Conference  
December 14-15, 2021



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# Book of Abstract

## The International Halal Science and Technology Conference 2021 (IHSATEC); The 14<sup>th</sup> Halal Science Industry and Business (HASIB)

Virtual Conference  
December 14-15, 2021



## **Book of Abstract**

# **The International Halal Science and Technology Conference 2021 (IHSATEC); The 14<sup>th</sup> Halal Science Industry and Business (HASIB)**

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# FOREWORD



ศูนย์วิทยาศาสตร์ฮาลาล จุฬาลงกรณ์มหาวิทยาลัย  
 مركز العلوم للحلال جامعة شولالونكون  
**The Halal Science Center Chulalongkorn University**

**The Halal Science Center Chulalongkorn University (HSC-CU)**



**The Halal Standard Institute of Thailand**



**The Central Islamic Council of Thailand**



**Research Synergy Foundation** is a digital social enterprise platform that focuses on developing Research Ecosystem towards outstanding global scholars. We built collaborative networks among researchers, lecturers, scholars, and practitioners globally for the realization of knowledge acceleration. We promote scientific journals among countries as an equitable distribution tools of knowledge. We open research collaboration opportunities among countries, educational institutions, organizations and among researchers as an effort to increase capabilities.

Known as a catalyst and media collaborator among researchers around the world is the achievement that we seek through this organization. By using the media of International Conference which reaches all researcher around the world we are committed to spread our vision to create opportunities for promotion, collaboration and diffusion of knowledge that is evenly distributed around the world

***Our Vision:***

*As global social enterprise that will make wider impact and encourage acceleration quality of knowledge among scholars.*

***Our Mission:***

*First, developing a research ecosystem towards outstanding global scholars. Second, Promoting scientific journals among countries as an equitable distribution tools of knowledge. Third, opening research collaboration opportunities among countries, educational institutions, organizations and among researchers as an effort to increase capabilities. Fourth, creating global scientific forum of disciplinary forums to encourage strong diffusion and dissemination for innovation.*

<https://www.researchsynergy.org/>

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# ORGANIZING COMMITTEE

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## PROGRAM COMMITTEE

### Conference Chair:

Assoc. Prof. Dr. Winai Dahlan

*Founding Director, The Halal Science Center Chulalongkorn University (HSCCU)*

### Co – Conference Chair

Dr. Hendrati Dwi Mulyaningsih

*Research Synergy Foundation*

### Organizing Committee

Dr. Pornpimol Mahamad

Dr. Najwa Yanya Santiworakul

Sunainee Mahama

Kunthira Salae

Baddariyah Sohsansa

Kasinee Kateleka

Santi Rahmawati

Ani Wahyu Rachmawati

Diah Rahmadani

Risky Adha

Refani Putri Shintya Fatoni

## **SCIENTIFIC COMMITTEE**

Prof. Dr. Mosaad Attia Abdel-Wahhab

*Department of Food Toxicology & Contaminants Department, National Research Center, Dokki, Cairo, Egypt*

Prof. Dr. Hamzah Mohd Salleh

*Dean of International Institute for Halal Research and Training (INHART), Kuala Lumpur, Malaysia*

Prof. Dr. Nazimah Hamid

*Auckland University of Technology, New Zealand*

Assoc. Prof. Dr. Pakorn Priyakorn

*Director of the Halal Standard Institute of Thailand, Thailand*

Asst. Prof. Dr. Tewarit Sarachana

*Age-related Inflammation and Degeneration Research Unit, Department of Clinical Chemistry, Faculty of Allied Health Sciences, Chulalongkorn University, Bangkok, Thailand*

Asst. Prof. Dr. Pradorn Sureepong

*Assistant Director of the Halal Science Center, Chulalongkorn University, Thailand*

## CONFERENCE CHAIR MESSAGE

---

The International Halal Science and Technology Conference 2021 (IHSATEC): 14th Halal Science Industry and Business (HASIB) is a conference collaboration program between The Halal Science Center Chulalongkorn University (HSC-CU), Research Synergy Foundation (RSF), The Halal Standard Institute of Thailand, and The Central Islamic Council of Thailand. that held virtually on December 14-15, 2021.

This conference not only give you global forum to share and exchange idea, research, and work. But also, provide wider network and research ecosystem for further collaboration and projects. We are glad to share this good opportunities in the scientific community, that will be offered only for all participants who participate in the conference.

It has been our privilege to convene this conference. Our sincere thanks, to the conference organizing committee; to the Program Chairs for their wise advice and brilliant suggestion on organizing the technical program and to the Program Committee for their through and timely reviewing of the papers. Recognition should go to the Local Organizing Committee members who have all worked extremely hard for the details of important aspects of the conference programs and social activities.

We welcome you to this conference and hope that this year's conference will challenge and inspire you, and result in new knowledge, collaborations, and friendships.

Best regards,

***Associate Professor Dr. Winai Dahlan***  
Conference Chair of IHSATEC: 14<sup>th</sup> HASIB 2021

# CONFERENCE CHAIR

---



***Associate Professor Dr. Winai Dahlan***

---

**Founding Director, The Halal Science Center, Chulalongkorn University (HSC)**

## EDUCATIONS

- B.Sc. Biochemistry, Faculty of Science, Chulalongkorn University, Bangkok, Thailand, 1976 AD
- M.S. Nutrition, Faculty of Medicine Ramathibodi Hospital, Mahidol University, Bangkok, Thailand, 1982 AD
- Ph.D. Applied Medical Biology (magna cum laude), Faculty of Medicine and Pharmacy St-Pierre Hospital, Université Libre de Bruxelles, Brussels, Belgium, 1989 AD

## APPOINTMENTS

- Founding Director, The Halal Science Center, Chulalongkorn University (HSC)
- Vice President, The Central Islamic Council of Thailand (CICOT)
- Chairman, The Halal Standard Institute of Thailand (HSIT)
- Committee of National Reform on Social Affairs
- Committee of National Education Council

## PAST EXPERIENCES

- Member, The National Reform Steering Assembly (NRSA)
- Member, the National Reform Council (NRC)
- Dean, Faculty of Allied Health Sciences, Chulalongkorn University
- Member, The National Directive Board of Food, Ministry of Public Health
- Member, The Advisory Board of Food, FDA, Ministry of Public Health
- Chairman, Subcommittee on Carbohydrates and Proteins, The National Committee of Thailand Recommended Dietary Allowances, Ministry of Public Health
- Nutrition Advisor in International Events: The 13th Asian Games, The 7th Fespac Games, The 20th World Scout Jamboree, The 24th Summer Universiade Games
- Member, The Advisory Board of Deputy Prime Minister and Ministers

## SCIENTIFIC/ACADEMIC TRAININGS & VISITS

- > 300 visits and trainings in 50 countries,

## PUBLICATIONS

- ~ 350 books (in Thai)
- > 3,000 pieces of documentary articles in science/technology, food/nutrition in several Thai magazines since 1989
- > 50 reviewed scientific articles published internationally/locally
- > 40 original research articles published internationally/locally,

## AWARDS & HONOURS

- World Halal Day Lifetime Achievement Award 2017, London, United Kingdom by the United World Halal Development
- Listed as “The 500 Most Influential Muslims” of the years by the Royal Islamic Strategic Studies Centre, Jordan for 9 consecutive years of 2010-2019
- The National Award of Best Innovative Civil Services, Office of Public Sector Development Commission 2013
- The Royal Thai Decoration and Awards:
  - The Bravery Medal, The Dushdi Mala. (2425 B.E.) esteemed achievement in science
  - Knight Grand Cordon of the Most Noble Order of the Crown (Major General rank)
  - The Chakrabarti Mala Medal (2436 B.E.)
- Best Innovation award, Halal Science & Innovation Excellence, World Halal Research Summit 2011, 2012, Kuala Lumpur, Malaysia
- Listed as “The 500 Most Influential Muslims” of the years by the Royal Islamic Strategic Studies Centre, Jordan for 8 consecutive years of 2010-2017
- Philippines’ IDCP Recognition Award of Halal Achievement in Halal Science 2009
- Malaysia’s Halal Journal Award of Best Innovation in Halal Industry 2006
- Alumnus of the Year 2009, Graduate Studies, Mahidol University, Bangkok, Thailand
- Alumnus of the Year 2005, Faculty of Science, Chulalongkorn University, Bangkok, Thailand
- Lecturer of the Year 2001, Chulalongkorn University, Bangkok, Thailand

## CO-CONFERENCE CHAIR

---



***Dr. Hendrati Dwi Mulyaningsih***

---

### **Founder & Chairperson of Research Synergy Foundation**

Dr. Hendrati Dwi Mulyaningsih is the chairperson and founder of Research Synergy Foundation that has shown great commitment on creating Global Network and Research Ecosystem. This GNR ecosystem has been developing since 2017 up to the present and having increasing numbers of the member up to more than 15.000 from all around the globe.

Her passion in how to create impact and co creation value among all the stake holder of RSF has made her focus on upholding integrity in the scientific process through enhancement of RSF's support-support system as like Reviewer track, Scholarvein, Research Synergy Institute and RSFPRESS. Thus, her work in this area has made her as the Nominee of Impactful Leadership Awards from Tallberg Foundation Sweden 2019.

As lecturer, she has been working in the University since 2008 – at present in Indonesia as assistant professor and she hold her Doctoral Science of Management graduated from School of Business and Management Institute of Technology Bandung (SBM-ITB) and she has strong interest to her research project as well as her research field in Social Entrepreneurship, Social Innovation and Knowledge Management.

As researcher, her work studies and research on this research field made her being invited as reviewer in many reputable Scopus and WOS indexed journals and also as keynote speaker in many International Conferences in Philippines, Thailand, Malaysia, Indonesia, Australia, Japan and US . She also has shown her great passion on writing her research study into some books chapter , papers and contemporary scientific articles that has already been published in Springer, Emerald, Taylor and Francis and in many reputable international journals. The terrific association between her professional experiences as researcher, lecturer, the certified Trainer & Coach combined with her wider horizon on networking in the research area made her establish the strong commitment on having global learning platform to accelerate knowledge through many workshops and research coaching in Research Synergy Institute as one of RSF's support system.

## KEYNOTE SPEAKERS



***Associate Prof. Dr. Nor Aida Binti Abdul Rahman***

---

**Universiti Kuala Lumpur (Uni KL), Malaysia**

**Nor Aida Abdul Rahman** is an Associate Professor at Universiti Kuala Lumpur, Malaysia and currently served as a Head of Aviation Management at Universiti Kuala Lumpur, Malaysian Institute of Aviation Technology, in Subang, Selangor, Malaysia. She has worked as internal and external trainer in management, supply chain, Halal logistics and postgraduate research. Her research work has appeared in several reputable academic journals such as Industrial Marketing Management, Journal of Business Research and Journal of Humanitarian logistics and supply chain, International journal of supply chain management and others. She has also published a number of book chapter and refereed conference proceedings, and part of the editorial team of book project with Routledge. She is a panel of WG in MS2400 Halal Supply Chain standard & TC10 for Halal supply chain standard (SMIIC). She earned PhD degree in Management (supply chain management) from Brunel University, London, UK. She is also serving as Academic Advisor in college, a chartered member for Chartered Institute of Logistics and Transport Malaysia (CILTM), HRDF Certified Trainer, Chairman (Academic Committee) for Malaysian Association of Transportation, Logistics and Supply Chain Schools (MyATLAS), Vice President (Research Journal) for Institute for Research in Management and Engineering UK (INRME), JAKIM Halal Certified Trainer, UniKL Halal Professional Board and a member of Academy of Marketing, UK

### **Globalisation and fostering a true halal logistics and supply chain activity: What does it take?**

Nor Aida Abdul Rahman - Universiti Kuala Lumpur, Malaysian Institute of Aviation Technology (UniKL MIAT), MALAYSIA

*Globalisation and the growing demand of Halal product across the globe, together with the growing population of Muslim worldwide collectively contributing to the growth of Halal logistics services. The global halal market size was valued at USD 286.96 billion in 2019 and it is expected to expand at a compound annual growth rate (CAGR) of 8.4% from 2020 to 2027. The purchasing power of Muslim consumer and traveler has increased significantly over past few years which result to the increased demand on halal product and services. The concept of Halal is generally associated with food products, which connected to the quality, cleanliness, healthy and comply with religious requirements. The concept of Halal product has developed in wider context including services such as Halal logistics. The rise of Halal logistics service provider is in tandem with the rise of Halal product market across the globe. The demand for Halal product and Halal logistics provider is not coming from Islamic country in Middle East and Asia only, but also from the Western context such as United states, United Kingdom and European countries. Halal logistics ensure the status of Halal product is remain as Halal during the movement from one point to another point along the supply chain process. This session aims to highlight on the past, current and future developments of Halal logistics globally. This session provides comprehensive analysis on the main issue to tackle in ensuring the end to end Halal supply chain activities. The key issue in relation to logistics activities such as handling, transportation, warehousing and storage; as well as cross border activities at the terminal and sea port are highlighted.*



***Prof. Dr. Ir. Senator Nur Bahagia***

---

**Institut Teknologi Bandung, Indonesia**

Professor Senator Nur Bahagia is one of the notable Lecturer at Department of Industrial Engineering, Institut Teknologi Bandung. His expertise is in Logistics System and Industrial Optimization. He received his Bachelor degree of Industrial Engineer from Institut Teknologi Bandung. He continued his education and earned Diplome Etude Approfondie (Master in Production Management) and Docteur Science de Gestion (Doctor in Production and Logistics System), from Universite d'Aix Marseille III, IAE- Aix-en-Provence, France. He has worked on several prominent project all over Indonesia as a Team Leader as well as Consultant for Board Directors. Currently, He is the Member of Assessor of National Accreditation Board for Industrial Engineering Program Study, Directorate General of Higher Education ( Ditjen-DIKTI ), Jakarta; Head of Research Group on Industrial System and Techno Economic; Head of Center for Logistics & Supply Chain Studies (CLoCS); and Chief of Expert Team in Implementing National Logistics Blue Print, Coordinating Minister of Economic Affairs.



***Dr. Ahmed Elngar***

---

**Beni-Suef University, Egypt**

Dr. Ahmed A. Elngar he is Associate Professor of Computer Science at the Faculty of Computers and Artificial Intelligence, Beni-Suef University, Egypt. Dr. Elngar is the Founder and Head of Scientific Innovation Research Group (SIRG). Dr. Elngar is a Director of the Technological and Informatics Studies Center (TISC), Faculty of Computers and Artificial Intelligence, Beni-Suef University. Dr. Elngar has more than 55 scientific research papers published in prestigious international journals and over 25 books covering such diverse topics as data mining, intelligent systems, social networks and smart environment. Dr. Elngar is a collaborative researcher He is a member in Egyptian Mathematical Society (EMS) and International Rough Set Society (IRSS). His other research areas include Internet of Things (IoT), Network Security, Intrusion Detection, Machine Learning, Data Mining, Artificial Intelligence. Big Data, Authentication, Cryptology, Healthcare Systems, Automation Systems. He is an Editor and Reviewer of many international journal around the world. Dr. Elngar won several awards including the Young Researcher in Computer Science Engineering", from Global Outreach Education Summit and Awards 2019, on 31 January 2019 (Thursday) at Delhi, India. Also, he awards Best Young Researcher Award (Male) (Below 40 years)", Global Education and Corporate Leadership Awards (GECL-2018), Plot No-8, Shivaji Park, Alwar 301001, Rajasthan.

## SESSION CHAIRS

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***Dr. Sheryl H. Ramirez, RN, MAN, LPT, Ph.D.***

---

***Universidad de Manila, Phillipines***

Dr. Sheryl H. Ramirez is a Registered Nurse and a Licensed Professional Teacher from the Philippines with advanced degrees in Nursing from the University of the Philippines and a Ph. D in Educational Policy and Administration. Her career evolved from clinical practice as an ICU Nurse with US RN recognition as a ‘Magnet Nurse’ by the American Nurses Credentialing Center to teaching practice as Nursing Faculty and Professor at the Graduate School of Education at Universidad De Manila where she is currently the Research Director.

Her research areas of interest are innovative pedagogy, resilience, and transformation across health and education to respond to the global pandemic challenges. A researcher, a research collaborator, and a reviewer of the International Journal of Africa Nursing Sciences published by Elsevier with previous works on Emotional Quotient and Leadership, Organizational Climate, Organizational Learning, and Research Efficacy of Teachers.



***Dr. Prameshwara Anggahegari***

---

***Institut Teknologi Bandung, Indonesia***

Wara, as Prameshwara Anggahegari is known, is a lecturer in the School of Business and Management. She holds her Doctoral of Philosophy from Institut Teknologi Bandung, Indonesia. She teaches courses in social entrepreneurship, community project management, corporate social responsibility, and environmental management systems, all of which are closely related to her research interests in triple bottom line and blended values. She is also the Community Engagement Specialist at teras Hijau Project, an empowerment movement located in Indonesia. This movement attempts to decrease food insecurity in Bandung by promoting urban farming, which is driven by low-income housewives living in high-density areas. She also participates in numerous government initiatives as a member of the Social Expert Team. Under the Research Synergy Foundation, Wara is also the director of Reviewer Track, a hub for empowering other academicians and reviewers all around the world. Her current interest is about gender, social entrepreneurship and empowerment.



***Dr. Oktoviano Gandhi***

---

***National University of Singapore***

A prolific academic, a hands-on engineer, and a tenacious entrepreneur, Oktoviano Gandhi is the go-to person for issues related to Solar Energy and Power System.

On the research front, Okto has worked on the engineering aspects of solar cells and modules, all the way to analysing policies' impact on energy intensity. His scientific works have resulted in more than twenty international publications. Okto has also held positions in many top universities across the world, namely Yonsei University in South Korea, University of Sao Paulo in Brazil, Tsinghua University in China, and National University of Singapore in Singapore.

Okto is the editor of "Sustainable Energy Solution for Remote Areas in the Tropics", a book published by Springer Nature under the series Green Energy and Technology.

Through Alva Energi, which he co-founded, Okto is channeling his expertise in solar energy, rural electrification, electricity grid planning, and energy policy to promote renewable energy development in Indonesia and Southeast Asia. His works and achievements have been recognised internationally: he was selected to be part of Global Young Scientists Summit, Leader of Tomorrow at St. Gallen Symposium, BP Advancing Energy Scholar, and One Young World Ambassador. Okto was featured in Vanity Fair 2020 Global Goals List, representing SDG7: Ensure access to affordable, reliable, sustainable, and modern energy for all.

Living in a permanent beta, Okto is always looking for opportunities to grow his expertise and impact both within and outside the Power and Energy industry.



***Julenah binti AG NUDDIN, Ph.D.***

---

***Universiti Teknologi MARA, Malaysia***

Julenah binti AG NUDDIN completed her PhD in Chemistry (Medicinal Plant Chemistry) from Universiti Teknologi MARA in 2015 and MSc in Chemistry (Natural Products Chemistry) from Universiti Malaysia Sabah in 2005. She has been teaching since 1996 and currently, she is a Senior Lecturer at Faculty of Applied Sciences, Universiti Teknologi MARA Sabah Branch. A registered Chemist since 2009 and Committee Member of Malaysian Institute of Chemists (Sabah & Federal Territory of Labuan), her focus is in analytical and organic chemistry thus, actively pursuing her research interests in medicinal and hyperaccumulating plants. In these endeavours, she is currently representing UiTM in Agromining World Network based in France while leading the SIG TaNi. Additionally, she has formed a research interest group known as RIG CRBio for their work at Crocker Range Biosphere Reserve with Sabah Parks as part of the commitment as Committee Member for MAB UNESCO programme in Sabah. Currently, she sits as a Member of Sabah Biodiversity Council. These activities reflect her belief that Borneo has much to offer than meets the eye. In the duration of her career, she has been awarded with Anugerah Khidmat Cemerlang (2005 & 2006), Best Innovation (IID UiTM Sabah 2009, 2010), Silver Medal in (IID UiTM 2010) and Best Innovation (IID UiTM Sabah 2013) with her faculty members. She is married with six children.

Profile:

<https://expert.uitm.edu.my/profile.php?id=tG3JFhxva2lw+Pn4bhl/qU5XapkPbvklH4J%20UVFYKSDQ=MyRID%202020-1125-0003>

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***Setyowati Triastuti Utami, Ph.D.***

---

***Univeristas Gadjah Mada, Indonesia***

Setyowati Triastuti Utami is a lecturer at Faculty of Pharmacy of Universitas Gadjah Mada, Yogyakarta, Indonesia. At the Department of Pharmaceutical Chemistry of Universitas Gadjah Mada, She researches and implementing her knowledge on data science and molecular microbiology. She is also active as a member of Research Synergy Foundation (RSF) where she is enjoying learning and implementing her knowledge of scientific writing. She graduated from Tokyo Institute of Technology, Japan, with master and doctoral degree majoring in molecular biology. Prior to joining Universitas Gadjah Mada, Setyowati was working in Metabologenomics, inc performing gut microbiota design and data science. Moreover, Currently she is the Managing Editor of Journal Health and Biomedical Science (JHBS).

You can contact her at : [setyowati.t.u@ugm.ac.id](mailto:setyowati.t.u@ugm.ac.id)

## JUDGING COMMITTEE

---



***Dr. Pakpum Somboon***

---

***Faculty of Engineering, Chulalongkorn University, Thailand***

Dr. Pakpum Somboon is one of the prominent lecturer from Department of Electrical Engineering, University of Chulalongkorn, Thailand.

He received his B.Sc. from Faculty of Engineering, Chulalongkorn University and continued his education and gained his M.Sc. from the same university.

In 2007, he received his PhD. From Tokyo Institute of Technology.

His area of expertise are on Biosensors, Medical instrumentation, and Electronic nose.



***Prof. Dr. Abdelaziz Bouras***

---

***College of Engineering, Qatar***

Professor A. Bouras has been conferred the HONORIS-CAUSA PhD in ICT and Knowledge Management by Her Royal Highness Princess Maha Chakri Sirindorn of Thailand in 2011.

He is currently the Director of the Research Support Office of Qatar University. He is also Professor in Computer Science and the current Chair of the IFIP (International Federation of Information Processing) working group 5.1 on ICT for lifecycle management. Dr. Bouras was the holder of the ICT-Qatar Ministry Chair position and has been working at the Digital Incubation Center of the Ministry until Sept. 2016. Prior to that he was the Deputy Director of the DISP Research Laboratory at University of Lyon - France, and the Manager of the Innovation and Technology Transfer Center of the university. He coordinated dozens of international projects in Europe and in the Middle East and helped incubating Start-ups in both France and Qatar. His current research interests deal with Software Lifecycle Management and Information Systems, including Information Security and Blockchain for Supply Chains.



***Prof. Dr. Mosaad Attia Abdel-Wahhab***

---

***Department of Food Toxicology & Safety, National Research Center, Egypt***

Dr. Mosaad Attia Abdel-Wahhab is a professor at Department of Food Toxicology & Contaminants, National Research Center, Egypt. He got his Ph.D in Toxicology from Texas A & M University, Texas, USA. He is the president of Egyptian Society of Science and Halal Products and a member in several professional organizations. He acted as a visiting Professor in several universities at several countries. He conducted more than 25 research projects in the area of food safety, food contaminants; nanotechnology and natural products funded by National and International agencies and got 6 patents. He published more than 220 research articles in the International Journals and several book chapters. He supervised more than 35 MSc and PhD thesis and participated (till now) in 45 international conferences as invited or keynote speaker. He is a co-editor for 20 International Journals and was honored and awarded several prizes from many International and National agencies.



***Prof. Dr. Faridah Hj Hassan***

---

***Founder of iHalal Management and Science (iHALALMAS),  
Universiti Teknologi MARA Shahalam, Malaysia***

Professor Dr Faridah Hj Hassan from Department of Ranking at UiTM Global, Universiti Teknologi MARA Malaysia is currently the Vice President of World Academy of Islamic Management, Chartered Institute of Marketing and MACFEA. She was the founder of Halal Management and Science HALALMAS, Director of Institute of Business Excellence and a former Dean Faculty of Business Management. Her works involve in numerous international research consultancy, training, publication and she is the chief and associate editor for 2 SCOPUS journals MAJCAFE and emerald JIMA. She is a regular invited speaker in various international conferences in halal, marketing and strategic business management.



***Dr. Pradorn Sureephong***

---

***Assistant Director of the Halal Science Center, Chulalongkorn University, Thailand***

Dr. Pradorn Sureephong is appointed as Assistant Director, The Halal Science Center Chulalongkorn University, Thailand.

He received his Bachelor of Engineering (Computer Engineering), from Faculty of Engineering, Chiang Mai University, Thailand and pursued to another level and received his Master of Economics from Faculty of Economic, Chiang Mai University, Thailand.

He received his PhD for Dual Degree Program from Université Lumière Lyon 2, France and Chiang Mai University, Thailand in 2009.

He has published many academic articles and remarkable writings



***Prof. Dr. Nazimah Hamid***

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***Auckland University of Technology, New Zealand***

Nazimah Hamid is a Professor of Food Science at Auckland University of Technology. Her research encompasses how processing techniques can influence physical, chemical, and flavour qualities of food. Her expertise in sensory and flavour science uses a combination of sensory and instrumental flavour analysis to examine and predict the relationships between food composition, sensory perception, and flavour of a variety of processed and minimally processed foods. She has worked with a variety of foods - from sea urchin roe, black foot abalone, clams, apricots, and cherries in New Zealand to 'Durian' (commonly referred to as the King of Fruits) and jackfruit in Malaysia, and earlier raspberries in Scotland. She also researches the role of auditory cues on flavour and the consumer perception of food.

# CONFERENCE PROGRAM

## Program of Thailand Halal Assembly 2021

Day-1 Dec 14, 2021

Program of IHSATEC 2021; 14 <sup>th</sup> HASIB			
Time (GMT+7)	Room I The 14 <sup>th</sup> HASIB	Time (GMT+7)	Room II Academic presentation
08.00 - 08.30	<p><b>Registration (zoom meeting will be launched for participants)</b></p> <p>Speakers &amp; committee are expected to be ready at the virtual lounge</p>		
08.30 - 08.45	<p><b>Welcome remark and Introduction IHSATEC 2021; 14<sup>th</sup> HASIB</b></p> <p>by Associate Professor Dr. Winai Dahlan</p> <p>Founding Director, the Halal Science Center Chulalongkorn University (HSC-CU)</p>		
08.45 - 09.00	<p><b>Academic, publication and global research ecosystem introduction</b></p> <p>by Dr. Hendrati Dwi Mulyaningsih</p> <p>Founder and Chairperson of Research Synergy Foundation</p>		
09.00 - 09.20	<p><b>Topic Session-1: Halal Plant-based innovative products and ingredients for cosmetic</b></p> <p><b>Session chair:</b> Prof. Dr. Senator Nur Bahagia</p> <p>Institut Teknologi Bandung (ITB), Indonesia</p>	09.00 - 09.10	<p><b>Session Chair</b></p> <p>Introduction</p> <p>- Dr. Pakpum Somboon - Faculty of Engineering, Chulalongkorn University, Thailand</p> <p>- Dr. Sheryl H. Ramirez, RN, MAN, LPT, Ph. D. - Universidad de Manila, Phillipines</p>
	<p><b>Speaker:</b> Dr. Simab Kanwal</p> <p>Faculty of Pharmaceutical Sciences,</p>		

	<p>Chulalongkorn University, Thailand</p> <p><b>Title:</b> Exploring the emerging role of cyanobacteria in the development of high-value nutraceutical and cosmeceutical products</p>		<p>- Dr. Oktoviano Gandhi - National University of Singapore</p> <p>- Prof. Dr. Nazimah Hamid - Auckland University of Technology, New Zealand</p>
09.20 - 09.40	<p><b>Speaker:</b> Prof. Dr. Irwandi Jaswir Dean for Academic, Research, and Publication at INHART, the International Islamic University Malaysia (IIUM)</p> <p><b>Title:</b> Seaweeds and Herbs as Potential Halal Materials for Promoting Health</p>	09.10 - 09.25	<p><b>Presenter:</b> HST21147 - Loremelo Juayang Catindoy</p> <p><b>Title:</b> Ensure The Proper Wearing Of Face Masks Using Machine Learning To Fight Covid-19 Virus</p>
09.40 - 10.00	<p><b>Speaker:</b> Prof. IR. Dr. Yus Aniza Yosuf</p> <p>Deputy Director, Halal Products Research Institute, Universiti Putra Malaysia (UPM)</p> <p><b>Title:</b> Halal Product Development for Plant-Based Cosmetic</p>	09.25 - 09.40	<p><b>Presenter:</b> HST21148 - Fronthea Swastawati</p> <p><b>Title:</b> The Chemical Composition, Microbiology and Micronutrients Changes of Fresh Barracuda Fish and Smoked Barracuda Fish using Different Smoking Methods</p>
10.00 - 10.30	<p>Question/Answer</p>	09.55 - 10.10	<p><b>Presenter:</b> HST21166 - Habilla Chapakiya</p> <p><b>Title:</b> Effect of amino acids and taste components on fermented fish sauce (Budu) from Thailand</p>

		10.10 - 10.25	<p><b>Presenter:</b> HST21160 - Moohamad Ropaning Sulong</p> <p><b>Title:</b> Response Surface Methodology based Optimization of Microbial Amylase Production using Banana Peels as Carbon Source</p>
		10.25 - 10.40	<p><b>Presenter:</b> HST21167 - Saveeyah Kahong</p> <p><b>Title:</b> Duplex droplet digital PCR assay for bovine and porcine quantification in gelatin capsules</p>
<b>10.30 - 10.45</b>	<b>Poster session/ Coffee Break</b>		
10.45 - 11.05	<p><b>Topic Session-2: Systematic monitoring in Halal production process</b></p> <p><b>Session chair:</b> Assoc. Prof. Dr. Chaleeda Borompichaichartkul</p> <p>Department of Food Technology, Faculty of Science, Chulalongkorn University</p>	10.45 - 11.00	<p><b>Presenter:</b> HST21168 - Reynaldo Guinto Alvez</p> <p><b>Title:</b> The Development Of A Cloud-based University Research Repository Software Using A Configurable Subscription Model</p>
	<p><b>Speaker:</b> Assoc. Prof. Dr. Nor Aida Binti Abdul Rahman. Universiti Kuala Lumpur, Malaysian Institute of Aviation Technology (UniKL MIAT), Malaysia</p> <p><b>Title:</b> Globalisation and Fostering a true halal logistics and supply chain activity: What does it take?</p>	11.00 - 11.15	<p><b>Presenter:</b> HST21169 - Nashratul Shera Mohamad Ghazali</p> <p><b>Title:</b> Influence of Storage Temperature on the Quality of Geniotrigona thoracica Honey</p>

11.05 - 11.35	<p><b>Speaker:</b> Dr. Kasinee Katelakha, The Halal Science Center, Chulalongkorn University (HSC- CU), Thailand</p> <p><b>Title:</b> Exploration of the selective binding property of the MIP- grafted paper for Cochineal dye</p>	11.15 - 11.45	<p><b>Awarding Certificate of Presentation, Testimonial, and Post- conference information announcement</b></p>
11.35 - 11.55	<p><b>Speaker:</b> Dr. Anat Denyingyhot, The Halal Science Center, Chulalongkorn University (HSC- CU), Thailand</p> <p><b>Title:</b> Creation of innovative monitoring tools to leverage a quality assurance system for halal food industries in Thailand.</p>		
11.55 - 12.15	Question/Answer		
12.15 - 13.00	<b>Lunch and Dhuhr prayer</b>		
13.00 - 15.15	<b>Grand Opening Ceremony</b>		
13.00 - 13.10	Opening Ceremony and Recitation of the Holy Al-Quran		
13.10 - 13.20	<p><b>Welcoming Remark</b> by Police Major General Surin Palarae, Secretary General of the Central Islamic Council of Thailand</p>		
13.20 - 13.30	<p><b>Opening Remark</b> by Assoc. Prof. Dr. Winai Dahlan, Founding Director, the Halal Science Center Chulalongkorn University (HSC-CU)</p>		
13.30 - 13.40	<p><b>Opening Remark</b> by Chairman of opening ceremony, Mr. İhsan ÖVÜT, Secretary General, The Standards and Metrology Institute for the Islamic Countries (SMIIC)</p>		

13.40 - 13.45	<p>Dua by Mr. Prasarn Srijaroen, Vice President of the Central Islamic Council of Thailand and Vice President of Islamic Scholar Committee of Sheikhu Islam of Thailand</p>		
13.45 – 14.00	<p><b>Keynote Speaker:</b> Mr. Alongkorn Pollabutra, Chief Advisor to Minister of Agriculture and Cooperatives Topic: Scientific and Innovative Strategies to Unlock Halal Value-Added Growth Prospects of Agricultural Products in Thailand</p>		
14.00 - 14.20	<p><b>Keynote Speaker:</b> Mr. İhsan ÖVÜT, SMIIC Secretary General Topic: SMIIC Strategic Vision 2030: Creating a Quality Infrastructure for Economic and Welfare Development of Member States.</p>		
14.20 – 14.40	<p><b>Keynote Speaker:</b> Assoc. Prof. Dr. Winai Dahlan, Founding Director, Halal Science Center Chulalongkorn University Topic: Lesson Learned from COVID-19 Vaccines to Plant-Based Food: How to Make Them All Halal?</p>		
14.40 - 15.15	<p><b>Poster session/ Coffee Break</b></p>		
<b>Time</b> (GMT+7)	<b>Room I</b> <b>The 14<sup>th</sup> HASIB</b>	<b>Time</b> (GMT+7)	<b>Room II</b> <b>Academic presentation</b>
15.15 - 16.15	<p><b>Session I</b> <b>Topic:</b> Conformity Assessment: The Appropriate Requirements for Bodies Providing Halal Certification. <b>Speaker:</b> Mete Çevik – Halal Accreditation Agency (HAK) of Turkey</p>	15.15 - 15.25	<p><b>Session Chair &amp; Judging Committees Introduction:</b> -Prof. Dr. Mosaad Attia Abdel-Wahhab - Department of Food Toxicology &amp; Safety, National Research Center, Egypt -Julenah binti AG NUDDIN, PhD. -</p>

	<p><b>Moderator:</b> Dr. Mohammad Hossein Shojaee AliAbadi, Chair of SMIIC Committee on Standards for Conformity Assessment (CCA)</p>		<p>Universiti Teknologi MARA, Malaysia</p> <p>-Dr. Prameshwara Anggahegari - Institut Teknologi Bandung, Indonesia</p>
		15.25 - 15.40	<p><b>Presenter:</b> 4638 - Isah Umar Usman</p> <p><b>Title:</b> Potentials of Microbes as Bio-Control Agents</p>
		15.40 - 15.55	<p><b>Presenter:</b> HST21149 - Dewi Juliana</p> <p><b>Title:</b> Formulation of Coenzyme Q10 Liquid Foundation with a Variations Olive oil as the oil phase</p>
		15.55 – 16.10	<p><b>Presenter:</b> HST21157 - Ulfiyatun Nafi'ah</p> <p><b>Title:</b> Formulation of Coenzyme Q10 Liquid Foundation With a Variations Virgin Coconut Oil as The Oil Phase</p>
16.15 - 17.15	<p><b>Session II</b></p> <p><b>Topic:</b> The Significant and Progressive Movement of the New Halal Food Standard</p> <p><b>Speaker:</b> Dr. Mediha Esra YAYLA, Chair of (TC1)</p>	16.10 - 16.25	<p><b>Presenter:</b> HST21163 - Thalia Marviani</p> <p><b>Title:</b> Formulation of Coenzyme Q10 Liquid Foundation With a Variations Linseed Oil as The Oil Phase</p>
		16.25 - 16.40	<p><b>Presenter:</b> HST21162 - Bakhtawar Khair Muhammad Pirzada</p>

	<p><b>Moderator:</b> Ms. Tuğba Daysaloğlu, Secretary of Halal Food Issues (TC1)</p>		<p><b>Title:</b> Synergistic effect of Euphorbia Milii with Tannic Acid as a disinfectant against Escherichia coli and Staphylococcus aureus</p>
		16.40 - 16.55	<p><b>Presenter:</b> HST21164 - Noor-un-Nisa Ghanghro</p> <p><b>Title:</b> In-vitro antimicrobial activity of Lactuca Sativa Leaves against Isolated Clarithromycin-resistant Superbugs</p>
		16.55 – 17.10	<p><b>Awarding Certificate of Presentation, Testimonial, and Post-conference information announcement</b></p>
17.15 - 18.15	<p><b>Session III</b></p> <p><b>Topic:</b> The Influence of Science and Technology on Halal Cosmetics Products.</p> <p>Speaker: Dr. Ruba Al-Thawabeia, Chair of Halal Cosmetic Issues (TC2)</p> <p><b>Moderator:</b> Annamaria Aisha Tiozzo, World Halal Development (WHAD)</p>	17.10 – 17.30	<b>Award Ceremony Day-1</b>
18.15	<b>End of Day-1</b>		

# Program of Thailand Halal Assembly 2021

Day-2 Dec 15, 2021

Program of IHSATEC 2021; 14 <sup>th</sup> HASIB			
Time (GMT+7)	Room I The 14 <sup>th</sup> HASIB	Time (GMT+7)	Room II Academic presentation
10.00 - 10.30	<p><b>Topic :</b> Overview of Taiwan Halal Industry Directions of Halal Economy In Taiwan</p> <p><b>Speaker:</b> Sylvia Chen, Deputy Director of Taiwan Halal Center, Taiwan External Trade Development Council (TAITRA)</p>	09.00 - 09.30	<p><b>Session Chair &amp; Judging Committees</b></p> <p><b>Introduction:</b></p> <p>-Prof. Dr. Faridah Hj Hassan - Founder of iHalal Management and Science (iHALALMAS), Universiti Teknologi MARA Shahalam, Malaysia</p> <p>-Prof. Dr. Abdelaziz Bouras - College of Engineering, Qatar</p> <p>-Setyowati Triastuti Utami, PhD. - Univeristas Gadjah Mada, Indonesia</p> <p>-Dr. Pradorn Sureephong - Assistant Director of the Halal Science Center, Chulalongkorn University, Thailand</p>
		09.30 - 09.45	<p><b>Presenter:</b> 4744 - Edmar Garcia Tan</p> <p><b>Title:</b> Sms-based information dissemination system with android application controller for Taguig City University</p>

		09.45 - 10.00	<p><b>Presenter:</b> 4746 - Jesus Nava Abalo</p> <p><b>Title:</b> Capabilities of Computer Algorithm like Human Brain Utilizing Artificial Neural Networks: A Task (Technology Advancement of Soft-skills and Knowledge)</p>
		10.00 - 10.15	<p><b>Presenter:</b> HST21155 - Edi Supardi</p> <p><b>Title:</b> Analysis of family food cost during lockdown based on Activity Based Costing and food frequency Questionare</p>
		09.55 - 10.10	<p><b>Presenter:</b> HST21165 - Neneng Windayani</p> <p><b>Title:</b> Feasibility Study Of Slaughterhouses As A Source Of Halal Meat Processed Meat-Based Food In Bandung City</p>
		10.10 - 10.25	<p><b>Presenter:</b> 4748 - Celine Dianne Tamparong Montano</p> <p><b>Title:</b> Android SMS and File Manager Encrypted Application Using AES-Vigenere and AES/ECB/PKCS5/Padding a Hybrid Encryption Algorithm</p>
10.30 - 10.45	<b>Poster session/ Coffee Break</b>		

10.45 - 11.05	<p><b>Topic Session-3: Start up and Young Entrepreneurship for Future Thailand's Economy</b></p> <p><b>Session chair:</b> Prof. Dr. Faridah Hj Hassan, Founder of iHalal Management and Science (iHALALMAS), Universiti Teknologi MARA Shahalam, Malaysia</p> <p><b>Speaker:</b> Mr. Pongpol Yodmuangcharoen, CCO and Co-Founder of Tough &amp; Tumble</p>	10.45 - 11.00	<p><b>Presenter:</b> 4783 - Hilmah Zuryani</p> <p><b>Title:</b> Readiness Of Creative Umkm Based On Digital Economy (Digital Economy) Pekanbaru City In Facing The Era Of The Industrial Revolution 4.0</p>
11.05 - 11.35	<p><b>Speaker:</b> Assist. Prof. Dr. Sathaporn Ngamukote, Co-Founder of Tann:D</p>	11.00 - 11.15	<p><b>Presenter:</b> 4693 - Irwan Shah Bin Abdullah</p> <p><b>Title:</b> eHalal Market Report for Malaysian Halal Food Exporters to Europe</p>
11.35 - 11.55	<p><b>Speaker:</b> Mr. Fuadi Pitsuwan, Co-Founder of Beanspire Coffee</p>	11.15 - 11.30	<p><b>Presenter:</b> HST21158 - Jinky Baguasan Tumasias</p> <p><b>Title:</b> Web-Based Platform for Don Bosco High School – Senior High School – Technical Vocational Education Track in Adoption of Hybrid Learning</p>
11.55 - 12.15	Question/Answer	11.30 - 11.45	<p><b>Presenter:</b> HST21159 - Senthilkumar Murugesan</p> <p><b>Title:</b> Enhancing the security of an organization from shadow IOT devices using Blow-fish encryption standard.</p>

		11.45 - 12.00	<p><b>Presenter:</b> HST21161 - Glenn Arwin Macalinao Bristol</p> <p><b>Title:</b> Integrating of Voice Recognition Email Application System for Visually Impaired Person using Linear Regression Algorithm</p>
12.15 - 13.00	<b>Lunch and Dhuhur prayer</b>		
13.00 – 13.30	<p><b>Keynote Address</b></p> <p><b>Keynote Speaker:</b> Assoc. Prof. Dr. Pakorn Priyakorn, Director, the Halal Standard Institute of Thailand (HSIT)</p> <p><b>Topic:</b> Challenges and Opportunities of Halal Standards and Conformity</p> <p>Assessment Activities after COVID-19: The Next Normal</p>	14.00 - 14.20	<p><b>Topic Session-4:</b> <b>Information Technology and Artificial Intelligence for Halal safety</b></p> <p><b>Session chair:</b> Assist. Prof. Dr. Pradorn Sureepong</p> <p>The Halal Science Center, Chulalongkorn University (HSC-CU), Thailand</p>
		14.20 - 14.40	<p><b>Speaker:</b> Mr. Maitai Dahlan</p> <p>Mechanical Engineering Department, Chulalongkorn University, Thailand</p> <p><b>Title:</b> The Future of Halal Standards and Blockchain Technology</p>
13.30 - 14.30	<p><b>Session IV</b></p> <p><b>Topic:</b> The New Knowledge and Wisdom in Providing Excellent Services on Halal Tourism</p>	14.40 - 15.00	<p><b>Speaker:</b> Assist. Prof. Dr. Ahmed A. Elngar, Faculty of Computers &amp; Artificial Intelligence, Beni-Suef University, Egypt.</p>

	<p><b>Speaker:</b> Dr. Cem Tintin, Statistical, Economic and Social Research and Training Centre for Islamic Countries (SESRIC)</p> <p><b>Moderator:</b> Mr. Imtiaz Muqbil, Executive Editor, Travel Impact Newswire</p>		
14.30 - 15.30	<p><b>Session V</b></p> <p><b>Topic:</b> The Great Movement to Create New Chapter of Halal Supply Chain Standard</p> <p><b>Speaker:</b> Assoc. Prof. Dr. Harlina Suzana Jaafar, Chair of Halal Supply Chain (TC10)</p> <p><b>Moderator:</b> Mrs. Fakheezah Borhan, Secretary of Halal Supply Chain (TC10)</p>	15.00 - 15.20	<p><b>Speaker:</b> Prof. Dr. Jonathan A.J. Wilson DLitt Branding Consultant, London, UK</p> <p><b>Title:</b> Halal Humans and influence in an age of automation and robots</p>
		15.20 - 15.30	Question/Answer
15.30 - 15.45	<b>Coffee Break</b>		
15.45 - 16.45	<p><b>Session VI</b></p> <p><b>Topic:</b> New Halal Standards on Gelatin and Food Additives</p> <p><b>Speaker:</b> Prof. Mian N. Riaz, Texas A&amp;M University</p> <p><b>Moderator:</b> Dr. Mohammed Ali Alsheikh Wace, The Standards and Metrology Institute for Islamic Countries (SMIIC)</p>	15.45 - 17.45	<b>Award Ceremony</b>
16.45 - 17.45	<p><b>Session VII</b></p> <p><b>Topic:</b> The significance of Creating Halal Quality Management Systems</p>		

	<p><b>Speaker:</b> Ms. Keziban ULU, Chair of Halal Management Systems (TC11)</p> <p><b>Moderator:</b> Mr. Selçuk Bulat, Secretary of Energy Efficiency and Renewable Energy (TC4)</p>		
<p>17.45 - 18.15</p>	<p><b>Closing Ceremony</b></p> <p>Key Summary Points on “The Challenges Mission of Halal Standardization After the Great Pandemics”</p> <p><b>Speaker:</b> Assoc. Prof. Dr. Pakorn Priyakorn, Director, the Halal Standard Institute of Thailand (HSIT)</p> <p><b>Closing Remark</b> by Assoc. Prof. Dr. Winai Dahlan, Founding Director, the Halal Science Center Chulalongkorn University (HSC-CU)</p> <p>-Vote of Thanks and Group photograph</p>		



**Track:  
Artificial Intelligence  
(Outline)**



# Ensure The Proper Wearing of Face Masks Using Machine Learning To Fight Covid-19 Virus

Lozemelo Juayang Catindoy<sup>1</sup>

<sup>1</sup>Taguig City University

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## Abstract

*In this pandemic time, wearing face masks is mandatory to all because of the possibility that a person can get COVID-19 virus through their mouth, nose or eyes, which could possibly happen when a person has a direct or close contact to a person with that virus. But, despite the strict implementation, some people disregard the proper wearing of face masks and unaware the risks of possible virus transmission for such negligence. In this paper, it will demonstrate how a Convolutional Neural Network (CNN) can detect if a person is wearing a face mask or not and the additional parameter to support to detect if the face mask is properly worn by a person by considering the facial landmarks thru face recognition using Histogram of Oriented Gradients (HOG) feature descriptor with a linear SVM machine learning algorithm. Two (2) processes are involved in proper wearing of face masks detection. It needs to pass in Face Mask Detection to proceed to the next process which is the Face detection wherein the result of checking should return false to confirm the proper wearing of the face mask of a person.*

*Keywords : Convolutional Neural Network (CNN), Histogram of Oriented Gradients (HOG) and SVM machine learning algorithm*

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# The Development of A Cloud-Based University Research Repository Software Using A Configurable Subscription Model

Reynaldo Guinto Alvez<sup>1</sup>

<sup>1</sup>Taguig City University

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## Abstract

*With more research that are added every year of every school calendar there is no doubt it becomes a file or stack of research hardbound resides on the library. These researches should not only settle on the shelves, making them electronically available as references, or to be cited are the ones it truly deserves. This paper emphasizes the need of a cloud-based research repository to be implemented in every university that can be utilized to serve its purpose. This research repository is based on an online publication and subscription model. Online publication provides reading sources via internet in which is accessible and more convenient to most people. The repository will also adapt the concept of configurability as the users may have their own preferences with regards on how they publish or subscribe a paper. These would give them more options on deciding how they would publish and or avail paper references. Research which are within the repository that will be referenced, cited, or downloaded has corresponding remuneration based on the approval of the University. In this way more researchers will continue to provide more scholarly output to be published and to gain more citing, downloads and eventually more remunerations. The repository has the potential to expand as more researchers will be turned its service and would be beneficial to stakeholders. The respondents on this paper shows the acceptability of the process making more likely to work in any educational institution. Moreover, as time progress, researchers and organizations would avail to use the software in accordance with their needs as well as the preferences of its user with the configurability of the software, thus providing a continuous educational-business process to all stakeholders. And with the current situation of the global pandemic heterogenous access to resources are all being sought.*

*Keywords : Online Publishing, Subscription Model, Research Repository, Configurability*

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# Capabilities of Computer Algorithm like Human Brain Utilizing Artificial Neural Networks: A Task (Technology Advancement of Soft-skills and Knowledge)

Jesus Nava Abalo<sup>1</sup>

<sup>1</sup>Taguig City University

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## Abstract

*Computer algorithms seemingly work via input and output. To generate an output, we take input and apply each step of the algorithms to that information. The input leads to advance and questions that need handling in order. The generated result after each section of the flowchart is complete is called output. The Central Processing Unit is known as the brain of the computer. It receives data input, executes instructions, and processes information and, we can think of a CPU as the decision-maker as the human brain can do. Human brains interpret the context of real-world situations in a way that computers cannot make it. To address the issue, Neural Networks have been developing. They are a set of Algorithms modeled virtually after the human brain that contrived to recognize patterns. They interpret sensory neurons through the perception of a machine, labeling, or creating raw data. Inspired by the development of the brain, ANN is the answer to making communications more human-like and letting ANN reason out like humans. A computer architecture in which several processors connect between neurons in a human brain, which can learn by processing one thing in another until something succeeds. The interconnected cells of the brain behave like Artificial Neural Networks developed by computer programming.*

*Keywords : Artificial Neural Network, Algorithm, Central Processing, Artificial Intelligence, Machine Learning*

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# The Model Development for Early Lung Cancer Analysis by Using Image Processing and Neural Network

Sirirat Promduang<sup>1</sup>, Pongpisit Wuttidittachotti<sup>2</sup>

<sup>1,2</sup>Kmutnb

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## Abstract

*Lung cancer has a high mortality rate to provide effective screening of patients. This model developed early lung cancer analysis using CXR images, Enhancement with median filter, entered image processing by active contour segmentation, edge detection (LoG) and feature extraction with Shape and GLCM in combine with MLP and SVM classifiers, where MLP provides accuracy 99%.*

*Keywords : Image Processing, Lung Cancer, Neural Network, Support Vector Machine*

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# Sms-based information dissemination system with android application controller for Taguig City University

Edmar Garcia Tan<sup>1</sup>

<sup>1</sup>Taguig City University

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## Abstract

*This study aimed to determine the accessibility of information in Taguig City University in terms of Class Suspensions, Schedule of Enrollment, Meetings and Seminars, Programs/Events, New School Policies and Grade Inquiry. It also focused on the development of SMS-Based Information Dissemination System with Android Application Controller and intended to determine the evaluation of the students, faculty members, non-teaching personnel and IT practitioners on the developed SMS-Based Information Dissemination System with Android Application Controller using the criteria based on ISO 25010 Software Quality Standards. A total of 307 students, 38 faculty members, 38 non-teaching personnel and 20 IT practitioners from Taguig City University participated in the study. In order for the researcher to develop the SMS-Based Information Dissemination System with Android Application Controller, the design covers the model used in the development of the application that is called the Waterfall Model. The results revealed that the level of accessibility of information at Taguig City University as perceived by the respondents was "Accessible". It was also found out that the evaluation of the respondents on the proposed SMS-Based Information Dissemination System with Android Application Controller was "Very Satisfactory". The results of one-way ANOVAs revealed that there were no significant differences in the evaluation of SMS-Based Information Dissemination System with Android Application Controller between students, faculty and non-teaching personnel. Lastly, the enhancements that were suggested by the respondents include Improve Graphical User Interface, Security Features, Reports Generation and Develop Android Application for Students.*

*Keywords : SMS, Information Dissemination, Autoreply, Android, Text blast*

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# Track: Food safety

# Simultaneous identification of four meat species (cattle, chicken, fish, and pig) using next generation sequencing (NGS)

Sunainee Mahama<sup>1</sup>, Hasam Chebako<sup>2</sup>, Sukrit Sirikwanpong<sup>3</sup>, Pornpimol Mahamad<sup>4</sup>, Najwa Yanya Santiworakul<sup>5</sup>, Acharee Suksuwan<sup>6</sup>, Winai Dahlan<sup>7</sup>, Vanida Nopponpunth<sup>8</sup>

<sup>1,2,4,5,6,7</sup>The Halal Science Center Chulalongkorn University, <sup>3</sup>Department Of Nutrition And Dietetics, Faculty Of Allied Health Sciences, Chulalongkorn University, <sup>8</sup>Department Of Clinical Chemistry, Faculty Of Allied Health Sciences, Chulalongkorn University

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## Abstract

*Meat adulteration has become a serious problem in global which directly affects to food consumers and producers. Therefore, it requires a tool to authenticate meat species to ensure safety of food products. Next generation sequencing (NGS) coupled with ribosomal RNA mitochondrial DNA gene can be used to analyze mixture of meat species in multiple meat samples. Therefore, this study aims to utilize NGS coupled with rRNA gene to identify 4 meat species (cattle, chicken, fish, and pig). Three primer sets (12S-Ki, 16S-KH, and 16S-Ki) were used to amplify DNA from the four meat species. All primer sets could be successfully amplified DNA fragments which corresponded to their size expectation. 16S-KH showed better detection effect in all species comparing with others. While the 12S-Ki and 16S-Ki could not be used to amplify in fish and chicken species. This may occur due to mismatches between sequences of primers and annealed regions of these species. Library construction of all PCR amplicons were prepared and sequenced by NGS. Amplicons amplified by 12S-Ki (fish) and 16SKi (chicken and fish) could not be mapped to the database because no PCR amplicons could not be amplified. NGS coupled with 16S-KH was then evaluated for precision test. The experimental precision was directly investigated comparing the results obtained from libraries that derives from DNA of four meat species which separately amplified for 3 different runs. As expected, the number and proportion of mapped reads between three different runs were also concordant. The percentage of mapped reads ranged from 14.04% to 31.04%, 15.14% to 31.98%, and 14.21% to 33.05% (1st, 2nd, and 3rd run, respectively). This demonstrated that NGS coupled with rRNA mtDNA gene could be reliably implemented as a routine testing. This developed technique can be applied to control and monitor meat adulterations in halal meat production and industry.*

*Keywords : Next Generation Sequencing, Ion Torrent PGM, Halal species, meat species identification, ribosomal RNA*

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# Analysis of family food cost during lockdown based on Activity Based Costing and food frequency Questionare

Edi Supardi<sup>1</sup>, Noneng Nurjanah<sup>2</sup>

<sup>1,2</sup>Politeknik Pos Indonesia

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## Abstract

*This research is intended to find out the type and amount of food needs of resident in Batununggal Village, Bandung City. and get a mathematical model to forecase the cost of food security if the lockdown policy scenario is implemented. The emergence of debate over the effectveness and efficiency of vaccination versus lockdown policies is currently attracting the attention of authors. The authors believes that the lockdown policy will be effective to be applied in the future. Urban areas were subjected to this study due to the vulnerability of food availability in cities if pandemic condition occurs where food supplies from the provider (rural) area disrupted. In this study, the author used exploratory methods, activity based costing and food frequency questionnaire which aims to dig up information about the amount of food staples for 100 people from batununggal village in Bandung, as sample of research. The result of the study found food costs per person amounted to IDR 219,848 for 14 days. with the following mathematical equation food cost when lockdown.*

*Keywords : Food Cost, Lockdown, ABC, Food Frequency Questionare*

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# Feasibility Study of Slaughterhouses as A Source of Halal Meat Processed Meat-Based Food In Bandung City

Ayuni Adawiyah<sup>1</sup>, Neneng Windayani<sup>2</sup>

<sup>1,2</sup>Uin Sunan Gunung Djati Bandung

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## Abstract

*The good food for consuming by human is the food halal and thayyib. Halal is free from haram raw material and thayyib is free from chemical or biological contamination etc. Thayyib food in other words as safe food based on food safety standards. Mean while, meat-based food, food safety standards start from the slaughterhouse. The slaughterhouse that registered as a large government slaughterhouse and a center for slaughtering livestock to be applied to the community is one of the benchmarks for standardizing meat safety. The purpose of this study was to determine the feasibility of slaughterhouses in the city of Bandung. The results of the study show that there are two slaughterhouses that are registered as government slaughterhouses and are a source of halal meat and have national standards. This study uses a type of field observation, research conducted in the real life. The conclusion Government Slaughterhouses, namely Cirangrang and Ciroyom slaughterhouses are clarified as proper slaughterhouses and have operating permits from the local government. The enumerators and slaughterhouse employees have received training and are regularly monitored by the local government. So that the slaughterhouse can be assumed as a slaughterhouse that has appropriate standardization based on food safety. Slaughterhouse has stable sales and has consumers who become regular customers. Several meat brokers and traders in wholesale and traditional markets source their meat for sale from these abattoirs. So based on the results of observations, the source of food used by snack producers circulating in the city of Bandung should not be contaminated by pork and appropriate based on the source of the meat.*

*Keywords : Halal food, food safety, meat-base food, slaughterhouse*

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# Track: Biotechnology

# Response Surface Methodology based Optimization of Microbial Amylase Production using Banana Peels as Carbon Source

Moohamad Ropaning Sulong<sup>1</sup>, Hasdianty Abdullah<sup>2</sup>, Hazirah Hamid<sup>3</sup>, Marini Ibrahim<sup>4</sup>

<sup>1</sup>Institut Halal Antarabangsa (insha), Universiti Selangor (unisel), <sup>2,3,4</sup>Universiti Selangor

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## Abstract

*Amylase is an enzyme that catalyse the hydrolysis of polysaccharides such as starch into small units include disaccharides and monosaccharides such as glucose. It is found diversly in different sources including animals, plants, vegetables, fruits as well as microbes. Amylases of microbial origin are favourable due many advantages. Besides, microbial enzymes production is more economical comparing to other sources. Optimization of enzyme production is quite challenging especially when it is conducted conventionally due to many parameters involved. Hence, applying Response Surface Methodology facilitates to design the experiment and optimize the production effectively. In this study, three independent variables namely (A) Temperature, (B) pH, and (C) Banana peels concentration were selected for the optimization of the amylase production. Result of the study indicated that the run-6 has the highest activity of amylase at 4.10 U/mL, with the optimum temperature at 60°C, pH 6 and 25% (w/v) of banana peels concentration. Further optimization of the amylase production including recombinant gene expression, different expression hosts and purification of the crude amylase are highly recommended.*

*Keywords : Amylase, RSM, Banana Peels.*

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# Duplex droplet digital PCR assay for bovine and porcine quantification in gelatin capsules

Pornpimol Mahamad<sup>1</sup>, Saveeyah Kahong<sup>2</sup>, Winai Dahlan<sup>3</sup>, Sukanya So-audon<sup>4</sup>, Wila Munaowaroh<sup>5</sup>, Anat Denyinghot<sup>6</sup>, Vanida Nopponpunth<sup>7</sup>, Monruedee Khemtham<sup>8</sup>

<sup>1,2,3,4,5,6,7,8</sup>The Halal Science Center, Chulalongkorn University

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## Abstract

*Gelatin is a very complex processed food made by partially hydrolyzed collagen, mostly derived from pigs and cattle. It is been used as the main ingredient in gelatin capsule production for dietary supplements and pharmaceutical products. Detection of bovine and porcine species origin in gelatin-based products is required for commercial purposes because species fraud and product mislabeling can negatively affect consumers with health, ethical, and religious concerns. However, due to the complications of gelatin-based production, DNA degradation may occur, leading to low yields of DNA extraction. For meat species identification, quantitative real-time polymerase chain reaction (qPCR) is currently being performed. Nonetheless, its use requires a series of the standard curve to compare with the Ct values of an unknown concentration. Also, it is challenging for practical low-DNA product application. A duplex droplet digital PCR (duplex ddPCR) assay based on double-quenched probe, known as a cost-effective, highly specific, sensitive, precise, and reliable method was developed. The study aimed to provide simultaneous absolute quantification and detection of porcine and bovine DNA in gelatin capsules of dietary supplements and pharmaceutical products. The findings discovered that the limit of detection (LOD) was identified as low as 0.001 ng/Åµl for porcine and 0.01 ng/Åµl for bovine from a DNA mixture of gelatin. Specificity was confirmed with 12 different species. Also, fifty-five commercial supplementary and pharmaceutical capsules were used to validate the assay. The duplex ddPCR assay can be applied for routine analysis in bovine and porcine adulteration detection in gelatin capsules.*

*Keywords : ddPCR, Porcine, Bovine, Gelatin, Capsule*

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# Potentials of Microbes as Bio-Control Agents

Isah Umar Usman<sup>1</sup>, Mohammed Abdullahi<sup>2</sup>

<sup>1</sup> ASSISTANT LECTURER AT FEDERAL POLYTECHNIC BIDA, NIGER STATE NIGERIA, BIOLOGICAL SCIENCE DEPARTMENT, <sup>2</sup>Federal Polytechnic Bida, Biological Science Department

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## Abstract

*It obviously cleared scientific findings have shown that global food production is being affected by pests organisms' attack, which otherwise would have been doubled if no disease management strategies are applied. Also it is obvious that large scale application of chemical pesticides by our local farmers has a deleterious effect on the health of human beings and also results to environmental pollution. Therefore our research would proffer suggestions as to how the farmers and the authorities both at National and International level can make use of bio control agents to control pests, in order to improve Agricultural production and to reduce adverse effects of chemical pesticides to man and his environment. The method adopted for this work was using content analysis. Using different search strategies we searched for published articles to review literatures of some other authors in the field of bio control agents to trace effects chemical pesticides in controlling pests. The search terms includes but not only limited to the following search terms: What are the Potential Of Bio control Agents In Rice Disease, What are the advantages of bio pesticides over other inorganic chemical compounds used by farmers as pesticides etc. Lastly References in the identified articles were reviewed to draw conclusion that the used of some bio control agents against pests affecting rice production is very effective.*

*Keywords : Bio pesticides, Control agent, Food, Microbes*

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# Track: Food science

# The Chemical Composition, Microbiology and Micronutrients Changes of Fresh Barracuda Fish and Smoked Barracuda Fish using Different Smoking Methods

Fronthea Swastawati<sup>1</sup>, Putut Har Riyadi<sup>2</sup>, Retno Ayu Kurniasih<sup>3</sup>, Aninditya Artina Setiaputri<sup>4</sup>, Defita Faridlotus Sholihah<sup>5</sup>

<sup>1</sup>Universitas Diponegoro, <sup>2,3,5</sup>Faculty Of Fisheries And Marine Science, Diponegoro University, <sup>4</sup>Faculty Of Fisheries And Marine Science, Ipb University

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## Abstract

*Fish play an important role in human nutrition and ensure about 20% of protein intake for one-third of the world's population, especially in developing countries. Fish is consumed because of its nutritional benefits such as protein, essential amino acids, fats, and micronutrients (vitamins and minerals). Micronutrients can prevent disease disorders due to micronutrient deficiencies. But behind its nutritional advantages, fish are very easy to spoil. Fish preservation and processing methods explore ways to stop or slow down spoilage. One method of preserving and processing fish that can be applied is smoking. This study aimed to evaluate the moisture content, total fat, heavy metals, vitamin A, and microbiology of fresh and smoked barracuda fish with different smoking methods, namely traditional smoking and liquid smoke. Fresh barracuda fish is smoked using the traditional smoking method and liquid smoke. Fresh and smoked barracuda fish were then analyzed, including water content, total fat content, heavy metals (Cd, Hg, Sn, As), histamine, micronutrients (vitamins A and D), and microbial contamination. The levels of heavy metals, histamine, and microbial contamination have met the quality standard of smoked fish (SNI 2725: 2013). Vitamin A in fresh barracuda and smoked barracuda was < 15.85 mcg/100 g, while vitamin D was not detected in either fresh barracuda or smoked barracuda.*

*Keywords : Heavy metals, histamine, microbiology contamination, smoked fish, vitamin*

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# Effect of amino acids and taste components on fermented fish sauce (Budu) from Thailand

Pornpimol Mahamad<sup>1</sup>, Habilla Chapakiya<sup>2</sup>, Winai Dahlan<sup>3</sup>, Uarna Nungarlee<sup>4</sup>, Patchaya Petchareon<sup>5</sup>, Sarin Chaovasuteeranon<sup>6</sup>, Kunthira Salae<sup>7</sup>, Anat Matimu<sup>8</sup>, Apiniharn Phewpan<sup>9</sup>, Anat denyngyhot<sup>10</sup>, Suwimon Keeratipibul<sup>11</sup>, Monruedee Khemtham<sup>12</sup>, Vanida Nopponpunth<sup>13</sup>

<sup>1,2,3,4,5,6,7,8,9,10,12,13</sup>The Halal Science Center, Chulalongkorn University, <sup>11</sup>Faculty Of Science, Chulalongkorn University

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## Abstract

*Budu is one of the most popular fermented fish products in Thailand's southern area due to its distinctive flavor. It is being manufactured in large quantities for usage in cuisine as seasonings and sauces. The objective of this study was to determine the effect of amino acids on the distinctive taste components of Budu in southern Thailand. The amino acids in Budu were determined using GC-MS after fish was fermented for 6–12 months as recommended by the manufacturer. Lysine, glutamic acid, and aspartic acid are the three most abundant amino acids, with 1600, 1,540, and 1,260 mg/100g, respectively. Additionally, it was revealed that the umami taste was formed by a group of amino acids (glutamic acid and aspartic acid) followed by sweetness and bitterness. Sensory analysis discovered salty tastes, followed by umami, sour, sweet, and bitter. Four Budu samples generate a salty and umami flavor. Salt is mixed with cleaned fresh fish and fermented to enable native enzymes to auto-digest the protein and produce amino acid-rich products. Fish enzymatic fermentation produces short chain peptides and amino acids that contribute to the umami flavor and taste. Additionally, the fermentation process creates a high glutamic acid concentration, as well as other amino acids and nucleotides that add to the umami flavor of the products. The study findings will be information that is particularly benefit to consumer and manufacturers to promote Budu products in the country's region.*

*Keywords : Budu, Taste, Amino acid, Southern, Thailand*

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# Influence of Storage Temperature on the Quality of *Geniotrigona thoracica* Honey

Nashratul Shera Mohamad Ghazali<sup>1</sup>, Yus Aniza Yusof<sup>2</sup>, Nyuk Ling Chin<sup>3</sup>, Siti Hajar Othman<sup>4</sup>

<sup>1,2,3,4</sup>Universiti Putra Malaysia

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## Abstract

*Stingless bee honey is well-known for its high content of moisture compared to *Apis mellifera* honey. This study aimed to investigate the influence of different temperatures used to reduce moisture content in honey using clay pots. The *Geniotrigona thoracica* honey was kept in clay pots for 10 days at 25 °C and 35 °C, and the changes in its properties were evaluated on the moisture content, total soluble solids, viscosity, pH, free acidity, and colour. Honey stored at 35 °C reduced moisture content by <20% in 3 days while honey at 25 °C took 7 days. Free acidity was found higher (113 meq/kg) in the sample stored at 35 °C for 3 days compared to honey stored at 25 °C for 7 days (106 meq/kg). From this study, the suitable temperature and the use of clay pots was proved to reduce the moisture content in honey.*

*Keywords : clay pots, *Geniotrigona thoracica*, moisture content, physicochemical, stingless bee honey*

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# **Track: Nanotechnology**

# Exploration of the selective binding property of the MIP-grafted paper for Cochineal dye

Kasinee Katelakha<sup>1</sup>, Acharee Sukswan<sup>2</sup>, Najwa Yanya Santiworakun<sup>3</sup>, Nureesun Mahamad<sup>4</sup>, Winai Dahlan<sup>5</sup>, Vanida Nopponpunth<sup>6</sup>, Wanida Laiwattanapaisal<sup>7</sup>

<sup>1,2,3,4,5,6</sup>The Halal Science Center, Chulalongkorn University, <sup>7</sup>Department Of Clinical Chemistry, Faculty Of Allied Health Sciences, Chulalongkorn University

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## Abstract

*Molecularly imprinted polymer (MIP) is a synthetic polymer that provided specific cavities for its analyte. In this study, the MIP specific to carminic acid, an insect-derived pigment, has been synthesized using methacrylic acid (MAA) and 4-vinylpyridine (4Vpy) as monomers and ethylene glycol dimethacrylate (EDGMA) as a cross-linker. The imprinted surface particles were characterized by Scanning Electron Microscope (SEM). The rough surface of the synthesized MIP represented the specific binding site for carminic acid. The paper-based MIP polymerization was performed by pre-treatment the cellulose paper with aminopropyltriethoxysilane (APTES) before polymerization with the MIP solution. The novel membrane-grafted MIP exhibits good performance for selective recognition with the target carminic acid which can be demonstrated by the imprinted factor of 1.94 as compared to those of non-imprinted polymer. According to the Scatchard analysis, it was estimated that there are two types of binding strategy including high and low affinity which corresponded to the  $K_a$  of  $1.24 \times 10^3$  mM and  $0.10 \times 10^3$  mM, respectively. It was thus preliminary concluded that the membrane-grafted MIP fabricated in this study has potential to be implemented in many applications such as extraction and preconcentration.*

*Keywords : Molecularly imprinted polymer, carminic acid, halal, Cochineal red color, E120*

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# **Track: Natural Products**

# Review: A Pharmacological Potential of Oxyresveratrol in Neuroprotection

Nureesun Mahamud<sup>1,2</sup> Nareeya Waloh<sup>1</sup> Kunthira Salae<sup>3</sup>,

Rossarin Tansawat<sup>4</sup>, Winai Dahlan<sup>5</sup>, Acharee Sukswan<sup>6</sup>

<sup>1,3,5,6</sup> The Halal Science Center, Chulalongkorn University, Bangkok, Thailand; <sup>2,4</sup> Department of Food and Pharmaceutical Chemistry, Faculty of Pharmaceutical Science, Chulalongkorn University, Bangkok, Thailand

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## Abstract

*Oxyresveratrol (OXY) is a natural compound that is found in the heartwood of Artocarpus lakoocha, mulberry twigs, mulberry wood, and Smilacis Chinae Rhizome. Studies have reported OXY's myriad pharmacological mechanisms including antioxidant activities, anti-inflammatory activities, and neuroprotective effects. Recent reviews have shown the OXY production, chemistry, biological activities, and pharmacological properties respectively. In this review, we focus on the neuroprotective effects of OXY in both models (in vitro and in vivo) that may improve and protect neurodegenerative diseases, which potentially may have clinical applications for Alzheimer's disease (AD), Parkinson's disease (PD), dementia, and ischemic strokes. The overall study described the models and mechanism of involvement in neuroprotective effects. OXY has been identified as novel evidence with minimal side effects to support the usage of traditional botanical medicines and nutraceutical development for neurodegenerative disease, especially in the aging society.*

*Keywords : Oxyresveratrol, Neuroprotection, Neurodegenerative disease, Pharmacology*

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# Synergistic effect of Euphorbia Mili with Tannic Acid as a disinfectant against Escherichia coli and Staphylococcus aureus

Bakhtawar Khair Muhammad Pirzada<sup>1</sup>, Ayesha Tajammul<sup>2</sup>, Zubair Ahmed<sup>3</sup>

<sup>1,2,3</sup>Us Pakistan Center For Advanced Studies In Water Mehran University Of Engineering And Technology

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## Abstract

*Herbal disinfectant is the cheapest and most unique way to clean a surface. This study focused on the synergistic impact of Euphorbia Mili and Tannic acid as a disinfectant against microorganisms. The aqueous solvent extract of plant leaves was used mixed with tannic acid against Staphylococcus aureus (gram-positive) and Escherichia coli (gram-negative) bacteria tested by the disk diffusion method. Both bacterial species were isolated from the kitchen surface. Minimum Inhibitory Concentration (MIC) was recorded with an optical density at 600 nm using a UV-spectrophotometer, which showed inhibition of bacterial growth in a cultural broth mixed with extract of Euphorbia Mili and Tannic acid. According to the findings, the disinfectant showed a maximum zone of inhibition for E. coli (14 mm) and S. aureus (20 mm). The disinfectant activities of extract were tested and estimated using a time-kill analysis. Fourier transform infrared spectroscopy (FTIR) analysis was conducted to identify the chemical bond, giving information related to the active sites of chemical compounds present in disinfectants. Overall, this study reveals that Euphorbia Mili is an excellent candidate to formulate disinfection.*

*Keywords : Disinfectant, Euphorbia, Minimum Inhibition Concentration, Spectrophotometer, Synergistic effect.*

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# In-vitro antimicrobial activity of *Lactuca Sativa* Leaves against Isolated Clarithromycin-resistant Superbugs

Noor-un-Nisa Ghanghro<sup>1</sup>, Ayesha Tajammul<sup>2</sup>

<sup>1,2</sup>U.s-pakistan Centre For Advanced Studies In Water, Mehran University Of Science And Technology, Jamshoro

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## Abstract

*Antibiotics were one of the modern advancements in the 20th century, but they have been less active and have become more alarming due to antibiotic resistance. Antimicrobial resistance among pathogenic microorganisms is rapidly increasing, posing a danger to human health. However, the most essential biologically bioactive components are sourced by plants and are industrially used to produce drugs against several antibiotic-resistant bacteria. Antimicrobial agents based on plants possess fewer side effects and have immense potential than available drugs in clinics to combat superbugs. This study investigated bioactive components of *Lactuca sativa* (Lettuce) that were energetic in our research against Clarithromycin-resistant bacteria. *Lactuca sativa* had a substantially stronger antimicrobial effect on gram-negative bacteria than it did on gram-positive. Using UV-visible spectrophotometry at 600nm, distinct behaviours of isolated bacteria were detected at varied optical densities; the highest activity was reported at 1 ml/50ml. Various phytochemicals were detected qualitatively, including carbohydrates, proteins, saponins, flavonoids, alkaloids, terpenoids, phenolic compounds, and tannins. Anthraquinones and glycosides were not discovered in lettuce. A quantitative investigation was conducted to detect unique phenolic compounds using High-Pressure Liquid Chromatography (HPLC) with varied peaks. Gallic acid, syringic acid, sinapic acid, and vanillin were identified as phenolic components by HPLC. However, further study on the analysis of isolated phytochemicals is required to identify novel antibiotics and their rapid and plant-based control and the proper management of antibiotic resistance spread and its risk to human health.*

*Keywords : *Lactuca sativa*, lettuce, clarithromycin-resistance, bioactive components, phytochemicals*

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# Physicochemical Properties of Cellulose extracted From Hom Thong Banana Peels

Firadao Surattanamal<sup>1</sup>, Suwaibah Sulong<sup>2</sup>, Nareeya Waloh<sup>3</sup>, Baddariyah Sohsansa<sup>4</sup>, Winai Dahlan<sup>5</sup>, Acharee Sukswan<sup>6</sup>

<sup>1,2,3,4,5,6</sup> The Halal Science Center

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## Abstract

*Bananas are one of the most popular fruits in the world, yet only around 12% of them are consumed, posing an environmental problem. The goal of this research is to extract Hom Thong banana cellulose, which is the major component of banana peels. Fat analysis was used to extract and bleach Hom Thong banana cellulose, followed by soaking in 15% hydrogen peroxide for 3 h. The Hom Thong banana peel cellulose was washed and dried at 60 °C for 10 h. The obtained Hom Thong banana cellulose was characterized in terms of fatty acid profile, inter-molecular interactions, and thermal analysis by using gas chromatography, FT-IR, and DSC techniques, respectively. The results showed that the content of palmitic acid (C16:0) in post-evaporated ethanolic extract is larger than in pre-evaporated ethanolic extract, with a ratio of 44.91% and 38.62%, respectively. At a ratio of 26.19% and 31.56%, the post-evaporation of ethanolic extract contained less linoleic acid (18:2cis) than the pre-evaporation of ethanolic extract. Intra-molecular interactions between OH groups of cellulose were shown by FT-IR spectra. DSC thermograms revealed that the extracted cellulose had good thermal characteristics and was appropriate for the food and cosmetic industries.*

*Keywords : Hom Thong banana peel, Cellulose, Fatty acid profile, Bleaching*

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# **Track: Internet of Things (IoT)**

# Web-Based Platform for Don Bosco High School – Senior High School – Technical Vocational Education Track in Adoption of Hybrid Learning

Jinky Baguasan Tumasis<sup>1</sup>

<sup>1</sup>Taguig City University

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## Abstract

*In the last two decades, the hybrid or blended learning paradigm has emerged as a viable alternative to traditional classroom instruction. This study such elements associated to adopting a blended learning addressed numerous results, implications, and possible future paths for Senior High School where Technical Vocational Education in the Philippines progressively interacts and develop with each other. This study aimed at developing a web-based platform or portal for DBHSP – Don Bosco High School Paranaque to resolve some classroom challenges such as conventional teaching which is time-consuming and the perennial lack of classrooms in public schools by providing additional/alternative teaching tool. To this end, this study further endeavored to determine the level of project effectiveness of the web-based portal in terms of the ISO 9126-1 software quality model main characteristics, namely: functionality, reliability, usability, efficiency, maintainability and portability The data processing were analyzed using a Fourth Generation Techniques (4GT) , a dissemination of innovations and Technology Acceptance Model (TAM), is an information system theory that describes how users come to embrace and use technology. According to the paradigm, when users are presented with new technology, a variety of factors impact their decision about how and when they will use it. Hybrid learning predates modern instructional technologies, the authors conclude that its evolution will be inevitably linked to current information communication technologies and an encouraging environment for technology adopter teaching academics in a senior high school – Technology Vocational Education that are simulating some aspects of human thought perception processes. To evaluate the effectiveness, the author contends that Hybrid Learning integrate around access, progress, and studentsâ€™ impression of their learning environments. The research technique used descriptive and developmental methodologies, and the DBHS – Senior High School were purposefully selected to benefit from the web-based approaches to teach both on and off-campus learners.*

*Keywords : hybrid, blended learning, innovations*

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# Enhancing the security of an organization from shadow IOT devices using Blow-fish encryption standard.

Senthilkumar Murugesan<sup>1</sup>, Dr.B.S.Murugan<sup>2</sup>

<sup>1,2</sup>Kalasalingam University

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## Abstract

*Brilliant urban communities, gridlock, squander the board, primary well being, security, crisis administrations, coordination, retail, modern control, and medical care are only a couple of the applications that the Internet of Things can assist with. The Internet of Things is a super innovation that can associate with anything, anyone, whenever, spot, stage, and organization. It fundamentally affects the whole square chain of ventures, savvy items and gadgets, frameworks and administrations given by heterogeneous organization association, and is being created as a brilliant inescapable structure for shrewd gadgets. Since gadgets connect to confounded gear, collaborate with threatening environmental elements, and are sent on an assortment of unregulated stages, they defy a few security dangers and difficulties. Since the Internet of Things has the ability to coordinate any kind of organization or modern framework, it could be powerless against weaknesses innate in the different frameworks that make up the incorporated organization. The reason for this exploration paper is to examine the security gives that singular framework answerable for interconnection face, just as their effect on the in general framework.*

*Keywords : IOT, Shadow-, Congestion, HNC*

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# Integrating of Voice Recognition Email Application System for Visually Impaired Person using Linear Regression Algorithm

Glenn Arwin Macalinao Bristol<sup>1</sup>

<sup>1</sup>Taguig City University

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## Abstract

*The outcome of this study will surely help visually impaired people, who face difficulties in accessing the computer system. Voice recognition will help them to access e-mail. This study also reduces cognitive load taken by a visually impaired users to remember and type characters using keyboard. If this system is implemented, self-esteem and social and emotional well-being of the visually impaired users will be lifted up for they will now feel they are being valued in the society and has fair treatment and access in technology. The main function of this study is to use a keyboard of the user that will respond through voice. The purpose of this study is to help a visually impaired person to use modernize application to interact with voice recognition system with the use of email into different types of modern gadgets Line computers or mobile phones. In terms of Functionality of the application, the proponents will use a set of APIs' or Application Program Interface such as Google Speech-to-text and text-to-speech application and it will process through Email System and also the SNMP or Simple Network Management Protocol will be used for mailing services, in programming software, the proponent will be using PHP for the backend of web interface. For the creation of Web Base UI, HTML and CSS will be used. Voice typing and Dictation Speech Interaction models using windows dictation engine. The proponent used descriptive research design in this study. Descriptive research design is being used by the proponents to describe the characteristics of a population or phenomenon of visually impaired persons being studied. Descriptive research is mainly done because the researchers wants to gain a better understanding for a topic. It focuses on providing information that is useful in the development.*

*Keywords : Visually Impaired, Voice Recognition, Integration*

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# **Track: Post Covid-19 Management**

# READINESS OF CREATIVE UMKM BASED ON DIGITAL ECONOMY (DIGITAL ECONOMY) PEKANBARU CITY IN FACING THE ERA OF THE INDUSTRIAL REVOLUTION 4.0

Hilmah Zuryani<sup>1</sup>

<sup>1</sup> University of Riau

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## Abstract

*The Halal Science Center Chulalongkorn University at Pattani Office was established in 2009 with the primary mission of developing areas according to the Indonesia-Malaysia-Thailand Growth Triangle (IMT-GT) through the project to increase personnel potential from the border provinces in the southern region until now. In addition, must report the performance of the various activities Performance in finance, supplies, content, people, public relations, Etc. Through weekly reports. The Executive Committee of The Halal Science Center Chulalongkorn University's monthly report and the report found that have the problem of the past operations cannot see the overall picture of the whole operation. Therefore, this research was conducted to develop a system for monitoring and reporting the performance in a multi-dimensional format and testing the users' satisfaction. So, results of the study showed that the multi-dimensional performance tracking and reporting system had been developed with Microsoft Excel that can reduce the operating time reduce about 70.00%, while Users of the monitoring and reporting system have an outstanding level of satisfaction from 15 total users.*

*Keywords : Dashboard, Monitor, Office dashboard, Excel dashboard*

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# **Track: Digital Marketing**

# **The development of a multi-dimensional reporting system for monitoring operations and the decision of the administrators. study case of Halal Science Center Chulalongkorn University, Pattani Office.**

Pitak Ardmare<sup>1</sup>, Arseeyah Lateh<sup>2</sup>, Fakutdeen Tapohtoh<sup>3</sup>, Zunuri Sedeh<sup>4</sup>, Habillah Japakiya<sup>5</sup>, Ameen Mhamad<sup>6</sup>, Anyamanee Nakarakaw<sup>7</sup>, Nifarid Radenamad<sup>8</sup>, Winai Dahlan<sup>9</sup>

<sup>1,2,3,4,5,6,7,8,9</sup>The Halal Science Center, Chulalongkorn University

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## **Abstract**

*The Halal Science Center Chulalongkorn University at Pattani Office was established in 2009 with the primary mission of developing areas according to the Indonesia-Malaysia-Thailand Growth Triangle (IMT-GT) through the project to increase personnel potential from the border provinces in the southern region until now. In addition, must report the performance of the various activities Performance in finance, supplies, content, people, public relations, Etc. Through weekly reports. The Executive Committee of The Halal Science Center Chulalongkorn University's monthly report and the report found that have the problem of the past operations cannot see the overall picture of the whole operation. Therefore, this research was conducted to develop a system for monitoring and reporting the performance in a multi-dimensional format and testing the users' satisfaction. So, results of the study showed that the multi-dimensional performance tracking and reporting system had been developed with Microsoft Excel that can reduce the operating time reduce about 70.00%, while Users of the monitoring and reporting system have an outstanding level of satisfaction from 15 total users.*

*Keywords : Dashboard, Monitor, Office dashboard, Excel dashboard*

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# Android File And Message Encrypted Application Using Advanced Encryption Standard-Vigenere and Electronic Codebook/ Public Key Cryptography Standards/Padding a Hybrid Encryption Algorithm

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## Abstract

*The study, entitled Android File And Message Encrypted Application Using Advanced Encryption Standard-Vigenere and Electronic Codebook/ Public Key Cryptography Standards/Padding a Hybrid Encryption Algorithm, was a proposed solution about Social Engineering and hacking. With the Data Privacy Act of 2012, the study promotes and inspires. The study's goal is to provide users with security and protection for their personal information. The purpose of this research is to prevent cyber theft. The theft of financial and/or personal information through the use of a computer/device for fraudulent or other illegal purposes is referred to as cyber theft. The objectives were aimed at the system's functionality, and the scope and limitations were considered to determine the study's capability and boundaries. For this case, the study proposed solutions. The first chapter provides a general overview of the application. The project background covered the area, challenge, and how the developers came up with the plan, as well as the study's major argument. The Android SMS and File Manager Encrypted Application employs two distinct hybrid encryption algorithms. The prototype is the model that is appropriate in our system development because the proponents are developing a mobile application. This application promotes the Data Privacy Act, which protects and maintains the customer's or user's right to confidentiality. The survey results are positive, and almost everyone would like to have this type of application that can secure their files and messages. As a result, the proponents conclude that this application is feasible and long-term.*

*Keywords : AES, Android, Algorithm, Encryption, SMS*

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# **Track: Cosmetic Science**

# Formulation of Coenzyme Q10 Liquid Foundation with a Variations Olive oil as the oil phase

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## Abstract

*Coenzyme Q10 contains antioxidants that can protect the skin from damage caused by harmful molecules which are usually called free radicals. Moisturizer Liquid Foundation formulation with variations of olive oil as the oil phase can produce good physical stability of Moisturizer Liquid Foundation preparations during physical testing. The Moisturizer Liquid Foundation formulation was made using various concentrations of the olive oil phase, namely F1 (3%), FII (5%), and FIII (7%). The Moisturizer Liquid Foundation formulation was made using the Emulsion evaporation method and physical characteristics tests were carried out including organoleptic tests, pH tests, viscosity tests, dispersibility tests, adhesion tests, and hedonic tests. The results showed that the organoleptic test of the three formulas had the same color and aroma but the texture of the preparations was different due to variations in concentration. The higher the concentration of olive oil, the more viscosity will increase according to the data, namely F1:5200 Cpas, F2: 6400: Cpas, F3: 8400 Cpas. The higher the concentration of olive oil, the more acidic the pH value will be according to the data, namely F1: 6.17; F2: 6.11; and F3: 5.99. The results of the F1 dispersion test: 6,6; F2: 6.4; and F3: 6.2. The results of the F1 adhesion test: 6,11; F2: 6.25; and F3: 6.51. The most preferred hedonic test result is F2.*

*Keywords : Coenzim Q10, Moisturizer Liquid Foundation, Olive oil*

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# Formulation and Stability Determination of Anti-Acne Cream Containing Black Cumin Seed oil and Kaolin Clay

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## Abstract

*Acne is the most common skin problem that could occur to any individual. Nigella sativa seed oil and kaolin as natural antimicrobial agents have been utilized in anti acne cream formulated in this study. This study aimed at development of anti-acne cream with anti-microbial property using a crude extract of black cumin (Nigella sativa L.). Anti-acne creams had been formulated from cream-based agents with various percentages of crude black cumin seed extract and 1.0% (w/w) of mineral clay (Kaolin). Physical properties and stability of anti acne cream at various storage conditions, including incubation at and freeze-thaw at 4, 40 and 45 °C for 28 days. The results showed that developed anti-acne cream containing a crude black cumin seed extract in 0.1 and 1.5% (w/w) had good physical stability. Therefore, the suitable formulation was then tested for anti-Propionibacterium acnes (P. acnes) susceptibility by broth dilution method. From these results, it was found that 1.0 % (w/w) of crude black cumin seed extract had ability to inhibit P.acnes with MIC (minimal inhibition concentration) of 15.6 mg/mL.*

*Keywords : Nigella sativa, Kaolin clay, Acne, Propionibacterium acnes*

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# Formulation of Coenzyme Q10 Liquid Foundation with a Variations Virgin Coconut Oil as The Oil Phase

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## Abstract

*Coenzyme Q10 is a compound with strong antioxidants that can protect the skin from exposure to UV rays, therefore researchers formulated a liquid foundation moisturizer coenzyme Q10 with VCO oil phase which is able to provide many benefits. In addition, VCO is able to provide good physical characteristics to the preparation. The purpose of this study was to determine the effect of variations in the concentration of virgin coconut oil on the physical characteristics of the preparation and to determine the formula with the most preferred concentration of VCO by the public. The methodology in this research is evaporation emulsification with a 500 rpm magnetic stirrer for 10 minutes. Moisturizer liquid foundation is made by mixing the oil phase into the water phase above a water bath at a temperature of 70oC and adding white pigment to form an ivory color. The results showed that the higher the concentration of VCO, the lower the pH, viscosity and adhesion of the preparation, while the greater the spreadability. In addition to testing the physical characteristics, the researchers also conducted a preference test and the results obtained were that the respondents preferred formula 3 with a VCO concentration of 7%. Data were analyzed by descriptive statistics and linear regression with 95% confidence level.*

*Keywords : Moisturizer liquid foundation, coenzyme Q10, VCO*

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# Formulation of Coenzyme Q10 Liquid Foundation with a Variations Linseed Oil as The Oil Phase

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## Abstract

*Antioxidant coenzyme Q10 (CoQ10) has properties as a sunscreen that can protect the skin from the aging process accelerated by UVB rays. Linseed oil (LO) formulated in cosmetics aims to find out the characteristics of moisturizer liquid foundation with LO as oil phase. In this study, cosmetic formulations were carried out using a modified method of emulsification evaporation. In the moisturizer liquid foundation CoQ10, three other formulas were used with LO concentrations of 3%, 5%, 7% to determine the effect of vegetable oils used on cosmetic characteristics. Evaluation of physical properties includes organoleptic, pH, viscosity, spreadability, and adhesivity. Evaluation of the acceptance of preparations was carried out to 15 panelists. The results of the study showed that the use of LO influences the characteristics of moisturizer liquid foundation CoQ10. The increase in LO concentration increases viscosity value, adhesivity, and decreased pH and spreadability but the results obtained still meet the criteria. The results of the hedonic test showed no significant difference from the three formulas 0.911 ( $P > 0.05$ ), it was proven that the panelists preferred formula 1 which has a texture that is not too thick.*

*Keywords : CoQ10, Sunscreen, Linseed oil, Moisturizer Liquid Foundation*

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## FUTURE EVENT

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February 14, 2022 | Virtual Conference

International Conference on Multidisciplinary Research for Sustainable Innovation (ICMRSI)

<https://icmrsi.com>

March 8, 2022 | Virtual Conference

International Conference on Teaching and Science Education (4th ICTASE)

<http://ictase.com/>

April 14, 2022 | Virtual Conference

International Conference on Entrepreneurship Studies, Business, Economy, and Management Science (6th ESBEM)

<http://esbem.com/>

April 22-23, 2022 | Virtual Conference

International Conference on Industrial and Systems Engineering, Technology, Innovation, and Management (ICISSETIM)

<https://icisetim.com>

May 5, 2022 | Virtual Conference

International Conference on Management Studies and Social Science (7th MASOS)

<http://www.masosconference.com/>

May 31, 2022 | Virtual Conference

Japan International Conference on Business, Management Studies and Social Science (8th JIBUMS)

<https://www.jibums.com/>

July 14, 2022 | Virtual Conference

International Conference on Islamic Education Studies and Social Science (4th ICISS)

<http://www.icissconference.com/>

July 28, 2022 | Virtual Conference

International Conference on Management, Education, and Social Science (3rd MESS)

<http://messconference.com/>

August 11, 2022 | Virtual Conference

International Conference on Interdisciplinary in Business, Economy, Management, and Social Studies (6th IBEMS)

<https://www.ibemsconference.com/>

August 30, 2022 | Virtual Conference

International Conference on Business, Economy, Management and Social Studies Towards Sustainable Economy (8th BEMSS)

<http://www.bemssconference.com/>

September 14, 2022 | Virtual Conference

International Conference on Language, Education and Teaching Research (2nd ICLET)

<http://www.icletconference.com/>

October 4, 2022 | Virtual Conference

Singapore International Conference on Management, Business, Economic and Social Science (8th SIMBES)

<http://www.simbesconference.com/>

November 8, 2022 | Virtual Conference

International Conference on Interdisciplinary Research on Education, Economic Studies,  
Business and Social Science (7th RESBUS)

<http://resbusconference.com/>

December 6, 2022 | Virtual Conference

Japan International Business and Management Research Conference (8th JIBM)

<http://www.jibmconference.com/>

**The International  
Halal Science and Technology  
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**14<sup>th</sup> Halal Science, Industry  
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Virtual Conference  
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