



I I U M R E S E A R C H &
I N N O V A T I O N D A Y 2 0 2 2

"Striving Together Towards Impactful Research And Innovation"

THURSDAY | 15TH SEPTEMBER 2022 | 18 SAFAR 1444H
GRAND HALL, OFFICE OF CAMPUS DIRECTOR,
INTERNATIONAL ISLAMIC UNIVERSITY MALAYSIA, KUANTAN, PAHANG



PROGRAM BOOK



الجامعة الإسلامية العالمية ماليزيا
INTERNATIONAL ISLAMIC UNIVERSITY MALAYSIA
بوتريسو الزلزال انوارا يقسا مللمستنا
Garden of Knowledge and Virtue

LEADING THE WAY
KHALIFAH - AMANAH - IGBA' - RAHMATAN LI-ALAMIN
LEADING THE WORLD



AN INTERNATIONAL AWARD-WINNING INSTITUTION FOR SUSTAINABILITY

**IIUM Research & Innovation Day 2022
(IRID 2022) is organised by Research
Management Centre (RMC), IIUM.**



Design by: Asst. Prof. Mohd Nor Hafizi Mohd Ali
Kulliyah of Dentistry

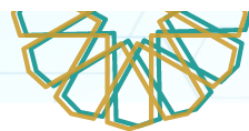


الجامعة الإسلامية العالمية ماليزيا
INTERNATIONAL ISLAMIC UNIVERSITY MALAYSIA
جامعة إسلامية عالمية رائدة في التعليم والبحث والابتكار
International Islamic University Malaysia
IIUM

LEADING THE WAY
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LEADING THE WORLD



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IRID 2022 | PROGRAM BOOK |

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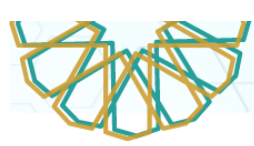
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WELCOMING REMARKS



Prof. Dr. Nazri Mohd. Yusof
Chairman of IRID2022

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ
السَّلَامُ عَلَيْكُمْ وَرَحْمَةُ اللَّهِ وَبَرَكَاتُهُ

Alhamdulillah, it gives me great pleasure to welcome you to IIUM Research and Innovation Day IRID 2022: An exhibition for health sciences research. This annual programme aims to showcase innovative research findings and encourage research collaboration.

This will be a face-to-face event to allow better interaction and discussion among researchers. We also invite researchers who have creative innovations to show their products at this event.

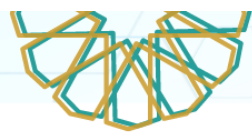
I hope this event will serve as a good platform for you to receive constructive feedback, share ideas and spark friendships with other researchers.

All submitted abstracts will be published in IIUM Journals of Allied Health Science (IJAHS), and awards will be given for best research and innovation among the students and staff categories.

I hope everyone benefits greatly from this event; I am looking forward to knowing you, sharing our experiences and building a lasting relationship together.

Thank you.





ORGANIZING COMMITTEE

PATRON
Deputy
Rector, Responsible
Research & Innovation



**PROF. DR. AHMAD
HAFIZ ZULKIFLY**

ADVISOR 1
Campus Director
IIUM Kuantan



Prof. Dr. Azmi Md Nor

ADVISOR 2
Director RMC



**Prof. Dr. Amir
Akramin Shafie**

ADVISOR 3
Director
(Administration)
RMC



**Mdm. Nor Aminah
Kotor**

CHAIRMAN



**PROF. DR. NAZRI
MOHD. YUSOF**

**VICE
CHAIRMAN**



**ASSOC. PROF. DR.
FARAHIDAH MOHAMED**

SECRETARY



**SR. MASTURA ABD.
WAHAB (RMC)**

**ASST.
SECRETARY**



**SR. NOR ILYANA
MOHD YUSOFF (RMC)**

TREASURER



**BRO. SALEHUDDIN
LOKMAN (FINANCE)**

TREASURER



**SR. SUAIDAH ABU
MANSOR (FINANCE)**

**HEAD OF
SCIENTIFIC**



**PROF. DR. MUZAFFAR ALI
KHAN KHATTAK**

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KULL. OF
DENTISTRY**



**ASST. PROF. DR.
AZLINI ISMAIL**

**HOR.
KULL. OF
PHARMACY**



**PROF. DR. ALFI
KHATIB**

**KULL. OF
DENTISTRY**



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MOHAMAD SHAFIQ**

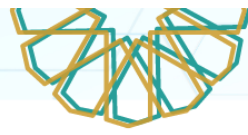
**KULL. OF
ALLIED HEALTH
SCIENCES**







**ASST. PROF. DR.
NURANIZA AZAHARI**




SCIENTIFIC COMMITTEE






 <p>HOR KULL. OF MEDICINE</p> <p>ASSOC. PROF. DR. ROSLINA ABDUL RAHIM</p>	 <p>KULL. OF DENTISTRY</p> <p>ASST. PROF. DR. SOBRINA MOHAMED KHAZIN</p>	 <p>KULL. OF DENTISTRY</p> <p>ASST. PROF. DR. SUSI SUKMASARI</p>	 <p>OFFICE OF DEPUTY RECTOR</p> <p>SR. SAFURA ABD. RAHMAN</p>
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OPENING & CLOSING CEREMONY

 <p>KULL. OF DENTISTRY</p> <p>ASST. PROF. DR. MOHD NOR HAFIZI MOHD ALI</p>	 <p>KULL. OF DENTISTRY</p> <p>DR. MUHAMMAD QAMARUL SYAFIQ</p>	 <p>KULL. OF DENTISTRY</p> <p>SR. UMMI KALTHOM HANAFI</p>
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PUBLICATION & MULTIMEDIA



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KULL. OF
NURSING

**ASST. PROF. DR.
MOHAMAD FIRDAUS**

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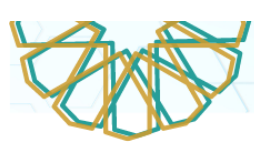


RMC
KUANTAN

**ASSOC. PROF. DR.
FARAHIDAH MOHAMED**

INNOVATION COMMITTEE



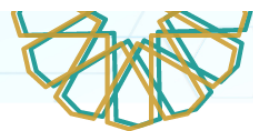


IRID 2022-List of Judges

Grand Hall, Office of the Campus Director, IIUM Kuantan
Thursday, 15th September 2022 @ 18 Safar 1444H
8.15 a.m. - 4.30 p.m

	PROF. DR. SUZANAH ABDUL RAHMAN Kulliyah of Allied Health Sciences, IIUM [Head of Judges]		ASST. PROF. DR. MOHAMED HASSAN ABDELAZIZ ELNAEM Kulliyah of Pharmacy, IIUM		ASST. PROF. DR. FIRDAUS ISMAIL Kulliyah of Nursing, IIUM
ASSOC. PROF. DR. ZUNARIAH BUYONG Kulliyah of Medicine, IIUM		ASST. PROF. DR. ISKANDAR BAHARI Kulliyah of Sciences, IIUM		ASSOC. PROF. DR. ADLINA HJ ARIFFIN Research Management Centre, IIUM	
	ASSOC. PROF. DR. AHMAD FAISAL ISMAIL Kulliyah of Dentistry, IIUM		ASST. PROF. DR. AWIS SUKARNI MOHMAD SABERE Kulliyah of Pharmacy, IIUM		ASST. PROF. DR. NURANIZA AZAHARI Kulliyah of Allied Health Sciences, IIUM
PROF. DR. SIRAJUDEEN KUTTULEBBAI NAINA MOHAMED SALAM Kulliyah of Medicine, IIUM		ASSOC. PROF. DR. NIZA SAMSUDDIN Kulliyah of Allied Health Sciences, IIUM		 <p>“ STRIVING TOGETHER TOWARDS IMPACTFUL RESEARCH AND INNOVATION ”</p>	





International Islamic University Malaysia
IIUM Research and Innovation Day (IRID) 2022
Agenda and Program

"Striving Together Towards Impactful Research"

14th September 2022 | Wednesday

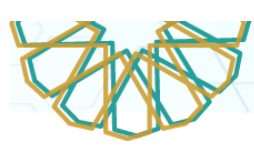
09.00 a.m. – 05:00 p.m. | Registration and putting up poster

Note to participant: *Please put up your poster directly after registration and please take it down at the end of the program to guarantee most interactive discussion on your results. Please come to our registration table if you need assistance with putting up your poster.*

15th September 2022 | Thursday

08:15 a.m. – 08:45 a.m.	Registration of all participants and breakfast Arrival of VIPs and Invited Guests
08:45 a.m. – 09:00 a.m.	National Anthem "Negaraku" Do'a Recitation Welcoming Remarks by Prof. Dr. Nazri Mohd Yusof, Deputy Director Research Management Centre Kuantan Cum Chairman of IRID 2022
09:00 a.m. – 09:30 a.m.	Opening Ceremony and Speech By Prof. Dr. Amir Akramin Shafie, Director of Research Management Centre IIUM Cum Advisor of IRID 2022 Token of Appreciation to VIP Performance of Traditional Dance: The Overture and Zapin Beradat by Gong Mas Production
09:30 a.m. – 09:45 a.m.	Visit to the poster exhibition area Refreshment for VIPs and Invited Guests
09:45 a.m. – 10:00 a.m.	Briefing Session with Judges
10:00 a.m. – 12:30 noon	Poster Presentation and Evaluation
12.30 noon. – 02.15 p.m.	Luncheon/Break/Dhuhr Prayer
02.15 p.m. – 03:15 p.m.	Poster Presentation and Evaluation (continued)
03:15 p.m. – 04:00 p.m.	Judges Meeting Endorsement of Results Video Presentation
04:00 p.m. – 04:30 p.m.	Prize Giving Ceremony and Closing Remarks Photo session with the Award Winners IIUM song "Leading The Way"
04:30 p.m.	Evening Tea and Disperse





List of participants

Abstract ID

Research title

Authors' name

Authors' affiliation

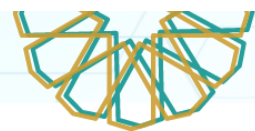
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Bakar², Basma Ezzat Mustafa³, Khairul Idan Mokhtar⁴

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^{3,4} Department of Family Medicine, Kuala Lumpur, International Islamic University Malaysia





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¹Kulliyah of Medicine, International Islamic University Malaysia, Malaysia

²Kulliyah of Dentistry, International Islamic University Malaysia, Malaysia

³Institute of Health Sciences, University Brunei Darussalam, Brunei

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M. Esham Samsudin¹, U. A. Husni¹, I. A. Rahman¹

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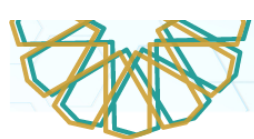
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¹Hospital Tuanku Jaafar, Orthopedic Department, Negeri Sembilan, Malaysia

²Hospital Port Dickson, Orthopedic Department, Negeri Sembilan, Malaysia





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Khairiah Razali¹, Mohd Hamzah Mohd Nasir², Jaya Kumar³, Wael Mohamed^{1,4}

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³Department of Physiology, Faculty of Medicine, UKM Medical Centre (UKMMC), Kuala Lumpur, Malaysia

⁴Clinical Pharmacology Department, Menoufia Medical School, Menoufia University, Menoufia, Egypt

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²Centre for Paediatric Dentistry and Orthodontic Studies, Faculty of Dentistry, Universiti Teknologi MARA Selangor, Sungai Buloh, Selangor, Malaysia

³Department of Medical Education, School of Medical Sciences, Universiti Sains Malaysia

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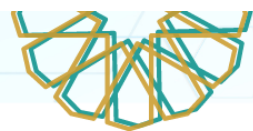
Sindhu Sinnasamy¹, Mohd Hafiz Arzmi^{2,3}, Azrul Safuan Mohd Ali^{1*}

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³Cluster of Cancer Research Initiative IIUM (COCRII), Kulliyah of Dentistry, International Islamic University Malaysia, 25200 Kuantan, Pahang, Malaysia





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Dhineshkumar¹, Firdaus Latip², Ismyth Abd Rahman³

^{1,2,3}Hospital Port Dickson, Malaysia

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Salma Shakirah Said¹, Cheong Joo Ming²

¹Orthodontic postgraduate student, Kulliyah of Dentistry (KOD), International Islamic University Malaysia (IIUM), Jalan Sultan Ahmad Shah, Bandar Indera Mahkota, 25200 Kuantan, Pahang, Malaysia

²Department of Orthodontics, KOD, IIUM, Jalan Sultan Ahmad Shah, Bandar Indera Mahkota, 25200 Kuantan, Pahang, Malaysia

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Mangaiyarkarasi Sivagnanam¹, Cheong Joo Ming²

¹Orthodontic postgraduate student, Kulliyah of Dentistry (KOD), IIUM, Jalan Sultan Ahmad Shah, Bandar Indera Mahkota, 25200 Kuantan, Pahang, Malaysia

²Lecturer, Department of Orthodontics, KOD, IIUM, Jalan Sultan Ahmad Shah, Bandar Indera Mahkota, 25200 Kuantan, Pahang, Malaysia

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M Firdaus¹, Nazri Mohd Yusof¹, Ahmad Fadzli Sulong¹

¹Dept. of Orthopaedic Surgery and Rehabilitation, Sultan Ahmad Shah Medical Centre, Kuantan, Pahang, Malaysia

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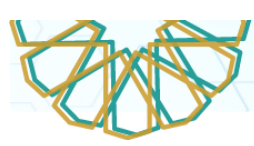
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Zurainie Abllah¹, Nor'Ainaa Syahirah Nor Din²

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APPLIED HEALTH SCIENCES

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Kulliyah of Information and Communication Technology (KICT), International Islamic University Malaysia (IIUM).

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Nur Imanina Abdullah Thaidi¹, Ahmad Badruddin Ghazali², Murni Halim¹

¹Faculty Biotechnology and Biomolecular Sciences, Universiti Putra Malaysia

²Kulliyah of Dentistry, International Islamic University Malaysia

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¹ Department of Family Medicine, International Islamic University Malaysia

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Azizi Ab Malek^{1,3}, Nawwal Alwani Mohd Radzi¹, Muhd Firdaus Che Musa²

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³Training Management Division, Ministry of Health, Level 6, Federal Government, Administrative Center 62590 Putrajaya

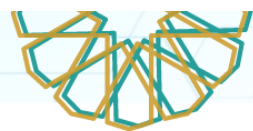
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Hafizah Bahaludin¹, Fatin Nur Amirah Mahamood², Mimi Hafizah Abdullah³, Muhammad Ashraf Fauzi⁴, Mawardi Omar⁵

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⁵Faculty of Computer & Mathematical Sciences, Universiti Teknologi MARA Pulau Pinang, 13500 Permatang Pauh, Pulau Pinang, Malaysia

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Nurshazwani Azmi¹, Widya Lestari², Khazlan Afiq Khazan¹, Muhammad Salahuddin Haris^{1,3}, Nurzafirah Mazlan⁴

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243 | CORRELATION BETWEEN SALIVARY LEPTIN LEVELS AND FACIAL SKELETAL PATTERN: A POSSIBLE FUTURE CLINICAL INDICATOR.

Danusha Siva Dharma¹, Noraini Abu Bakar², Basma Ezzat Mustafa³, Khairani Idah Mokhtar⁴

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^{3,4} Department of Fundamental Dental and Medical Sciences, Kulliyah of Dentistry, International Islamic University Malaysia

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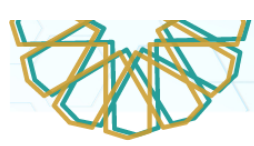
Siti Nadiah Mohd Ali¹, Salbiah Mokhtar², Abdul Halim Mohd Noor³, Huraizah Arshad⁴ and Nor Nazihah Chuweni⁵

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³Faculty of Business and Management, Universiti Teknologi MARA Melaka Branch, KM 26 Jalan Lendu, 78000 Alor Gajah, Melaka, Malaysia





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Cheong Joo Ming¹, Mohamad Shafiq Mohd Ibrahim²

¹Department of Orthodontics, Kulliyah of Dentistry (KOD), International Islamic University Malaysia (IIUM), Jalan Sultan Ahmad Shah, Bandar Indera Mahkota, 25200 Kuantan, Pahang, Malaysia

²Department of Paediatric Dentistry & Dental Public Health, KOD, IIUM, Jalan Sultan Ahmad Shah, Bandar Indera Mahkota, 25200 Kuantan, Pahang, Malaysia

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Nora Azirah Mohd Zayi¹, Muhammad Lutfi Mohamed Halim¹, Mohd Yusof Mohamad^{1,2}, Ahmad Fahmi Harun^{1,2}

¹Department of Physical Rehabilitation Sciences, Kulliyah of Allied Health Science, International Islamic University Malaysia, Kuantan Campus, 25200 Kuantan, Pahang, Malaysia.

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Muhammad Zulhakimi¹, Hafizah Bahaludin²

¹Department of Mathematics, Faculty of Science, Universiti Teknologi Malaysia, Johor Bahru

²International Islamic University Malaysia, Department of Computational and Theoretical Sciences Kulliyah of Science, Jalan Sultan Ahmad Shah, 25200 Kuantan, Pahang, Malaysia

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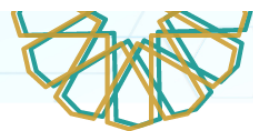
¹Department of Restorative Dentistry, Kulliyah of Dentistry, International Islamic University Malaysia, Malaysia.

²Kulliyah of Dentistry, International Islamic University Malaysia, Malaysia.

³Ministry of Health, Malaysia.

⁴Department of Prosthodontics, Kulliyah of Dentistry, International Islamic University Malaysia, Malaysia.





262 | BONE GRAFTING MATERIALS IN PERIODONTAL REGENERATION: A NARRATIVE REVIEW.

Wan Nor Hayati Wan Abd. Manan¹, Nor Amirah Mohd Naim², Juzaily Husain³

¹Department of Prosthodontics, Kulliyah of Dentistry, International Islamic University Malaysia, Malaysia.

² Kulliyah of Dentistry, International Islamic University Malaysia, Malaysia.

³ Department of Restorative Dentistry, Kulliyah of Dentistry, International Islamic University Malaysia, Malaysia.

263 | THE STUDY ON PATIENT CLINICAL AND FUNCTIONAL OUTCOME AND QUALITY OF LIFE AFTER NEUROTISATION SURGERY FOR BRACHIAL PLEXUS INJURY.

Lim Wei Khang

Kulliyah of Medicine, International Islamic University Malaysia, Malaysia

265 | ASSESSMENT OF FASTING GALLBLADDER VOLUME USING ULTRASOUND IMAGING IN RELATION TO WEIGHT AND BODY MASS INDEX AMONG FEMALE STUDENTS FOR DETECTION OF ASYMPTOMATIC GALLSTONES.

Inayatullah Shah Sayed¹, Najihah Binti Shaik Nurudin¹

¹Department of Diagnostic Imaging and Radiotherapy, Kulliyah of Allied Health Sciences, International Islamic University Malaysia, Kuantan Campus, 25200 Kuantan, Pahang, Malaysia

267 | IMPACT OF THE RADIOLOGY STAFF'S ATTITUDE TOWARDS UNDERGRADUATE MEDICAL IMAGING STUDENTS: STUDENTS' PERSPECTIVE.

Inayatullah Shah Sayed¹, Nur Hanisah Binti Hamdan¹, Najihah Binti Shaik Nurudin¹

¹Department of Diagnostic Imaging and Radiotherapy, Kulliyah of Allied Sciences, International Islamic University Malaysia, Kuantan Campus, 25200 Kuantan, Pahang, Malaysia

269 | OUTCOME OF CROSS AND LATERAL PINNING DIVERGENT PINNING FOR THE TREATMENT OF THE SUPRACONDYLAR HUMERUS FRACTURE GARTLAND TYPE-III (SCHF III) FRACTURE.

Ahmad Hud Mahfoodz¹

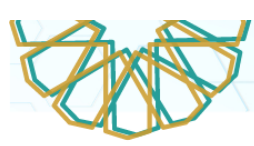
¹Department of Orthopedics, Traumatology and Rehabilitation, Sultan Ahmad Shah Medical Centre, IIUM

270 | OSTEOMYELITIS IN GRADE I OPEN FRACTURE TIBIA TREATED WITH EXTERNAL FIXATOR.

Ahmad Hud Mahfoodz¹, Nazri Mohd Yusof¹

¹Department of Orthopedics, Traumatology and Rehabilitation, Sultan Ahmad Shah Medical Centre, IIUM





271 | TOTAL FLAVONOID CONTENT, TOTAL PHENOLIC CONTENT AND THE ANTIOXIDANT ACTIVITY OF HURREM TITISEMAS LIQUID.

Azlini Ismail¹, Tuan Ashraf Faiz Tuan Anuar², Basma Ezzat Mustafa Alahmad¹, Widya Lestari¹, Deny Susanti Darnis²

¹Department of Fundamental Dental and Medical Sciences, Kulliyah of Dentistry, International Islamic University Malaysia, 25200 Kuantan, Pahang, Malaysia

²Department of Chemistry, Kulliyah of Science, International Islamic University Malaysia, 25200 Kuantan, Pahang, Malaysia

273 | KNOWLEDGE, PERCEPTION AND PRACTICE OF PROPER COLLIMATION IN PAEDIATRIC CHEST X-RAY AMONG IIUM UNDERGRADUATE MEDICAL IMAGING STUDENTS.

Inayatullah Shah Sayed, Amira Syazwani Binti Misri, Najihah Binti Shaik Nurudin

Department of Diagnostic Imaging and Radiotherapy, Kulliyah of Allied Health Sciences, International Islamic University Malaysia, Kuantan Campus, 25200 Kuantan, Pahang, Malaysia

275 | HAND GESTURE RECOGNITION USING SOFT, ELECTRONIC, STRAIN SENSORS.

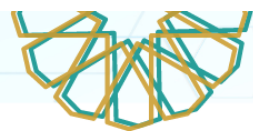
Sajjad Hossen¹, Anis Nurashikin Nordin¹, Norsinnira Zainul Azlan², Muhammad Irsyad Suhaimi³, Lim Lai Ming³, Rosminazuin Ab Rahim¹, Mohd Saiful Riza¹, Zambri Samsudin³

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LIST OF PARTICIPANTS

INNOVATION

230 | THE SYNTHESIS OF HYDROPHOBIC MAGNETIC ADSORBENT FOR THE REMOVAL OF PLASTIC WASTE.

Siti Nursyamsulbahria Che Nan¹, Mohd Fuad Miskon^{2,3}, Wan Hazman Danial¹, Shafida Abd Hamid¹, Rosliza Mohd Salim¹, Azaima Razali¹

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²Department of Marine Science, Kulliyah of Science, International Islamic University Malaysia.

³Institute of Oceanography and Maritime Studies (INOCEM), Kulliyah of Science, International Islamic University Malaysia.

231 | NAM™ChromPATCH: INNOVATIVE *Chromolaena odorata* LOADED HYBRID HYDROGEL WOUND DRESSING WITH ANTIBACTERIAL ACTION.

Nur 'Ainun Mokhtar^{1,2}, Fatahiya Mohamed Tap³, Nurul Bahiyah Ahmad Khairudin², Roshafima Rasit Ali², Zatil Izzah Ahmad Tarmizi², Siti Zalita Ab Talip² and Shahira Yusnina Yahya²

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³School of Chemical Engineering, Faculty of Engineering, Universiti Teknologi MARA

Cawangan Terengganu, Kampus Bukit Besi, 23000 Dungun, Terengganu, Malaysia

238 | ANTIMICROBIAL POTENTIAL OF ACTIVE PHARMACEUTICAL INGREDIENT HYDROPHOBIC DEEP EUTECTIC SOLVENTS (DESS).

Engku Normi Engku Ismail¹, Elgharbawy Amal A.M.^{2*},

^{1,2} International Institute Halal Research and Training (INHART)

241 | DEVELOPMENT OF SICK BOAT SYNDROME (SBoS) QUESTIONNAIRE FOR THE ROYAL MALAYSIAN NAVY (RMN).

Nur Alyaa Tasnim Mohammad Zin¹, Amirul Faiz Kamaruddin^{2 3}, Nur Sarah Fatimah Tamsi¹, Muhammad Firdaus Zamri¹, Noor Artika Hassan⁴, Arman Ariffin⁵, Maryam Zahaba¹

¹Department of Chemistry, Kulliyah of Science, International Islamic University Malaysia, 25200 Kuantan, Malaysia

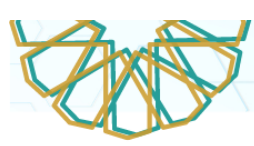
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⁴Department of Community Medicine, Kulliyah of Medicine, International Islamic University Malaysia, 25200 Kuantan, Malaysia

⁵Eastern Maintenance Overseer Unit - Royal Malaysian Navy, RMN Naval Base, Tg Purun, 87000 W.P. Labuan, Malaysia





242 | ADVANCED VISUALIZATION USING GEPHI FOR FINANCIAL NETWORK.

Muhammad Farhan Bin Mohd Nazir¹, Hafizah Binti Bahaludin¹

¹Department of Computational and Theoretical Sciences, Kulliyah of Science, International Islamic University Malaysia, Bandar Indera Mahkota Campus, Jalan Sultan Ahmad Shah, 25200 Kuantan, Pahang, Malaysia.

248 | BLACK SOLDIER FLY LARVAE AS POTENTIAL FEED, COSMETIC AND SKINCARE COMPONENTS.

Aina Munirah Mohamad Asri¹, Nur Saadah Zulkifli², Mohamad Huzaiflyasir Kamal Bashah³, Siti Fairuz Othman⁴, Deny Susanti Darnis⁵, Suhaila Mohd Omar⁶

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⁶Environmental Biology & Biotechnology Research Unit (EBBRU), Kulliyah of Science, International Islamic University of Malaysia, Jln. Sultan Ahmad Shah, Bandar Indera Mahkota, 25200 Kuantan, Pahang

266 | ORGANIZATIONAL CROSS-CULTURE ADJUSTMENT - MOULDING LEADERSHIP.

Rozina Muzaffar¹, Dr. Putri Rozita Tahir²

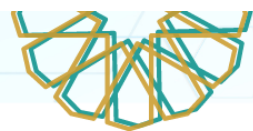
¹DRB-HICOM University of Automotive Malaysia

272 | TUFF : DISHWASHING SOAP FROM WASTE COOKING OIL.

Noor Artika Hassan¹, Norul Hernani Binti Abd Latif², Hamzah Binti Zorkepli², Muhammad Afif Bin Musa², Puteri Amirah Adib Binti Kamaruzzaman³, Siti Rusianti Binti Tomin⁴

¹Department of Community Medicine, Kulliyah of Medicine, International Islamic University Malaysia, Kuantan, Malaysia
²Department of Biomedical Science, Kulliyah of Allied Health Sciences, International Islamic University Malaysia, Kuantan, Malaysia
³Central Research and Animal Facility, International Islamic University Malaysia, Kuantan, Malaysia
⁴Department of Basic Medical Sciences, Kulliyah of Pharmacy, International Islamic University Malaysia, Kuantan, Malaysia





274 | EFFECTS OF FERMENTATION PARAMETERS ON THE PRODUCTION OF MYCO-COAGULANT FROM LOCAL FUNGI FOR WATER TREATMENT.

M. Fella¹, Abdullah. Al. Mamun², M. Z. Alam¹, N. A. Kabbashi¹ and N. S. B. Engliman¹

¹Bioenvironmental Engineering Research Centre (BERC), Department of Biotechnology Engineering, Kulliyah of Engineering, International Islamic University Malaysia, Gombak, 53100 Kuala Lumpur, Malaysia

²Cataclysmic Management and Sustainable Development Research Group (CAMSDE), Department of Civil Engineering, Kulliyah of Engineering, International Islamic University Malaysia, Gombak, 53100 Kuala Lumpur, Malaysia

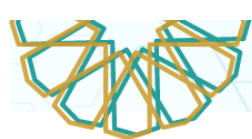
275 | TWO-SOLITON MOLECULE SCATTERING BY EXTERNAL DELTA POTENTIAL.

Nor Amirah Busul Aklan¹, Nur Fatin Ikhwan Muhammad Husairi², Bakhrum Umarov³

^{1,2}Department of Computational & Theoretical Sciences, Kulliyah of Science, International Islamic University Malaysia, 25200 Kuantan, Pahang, Malaysia.

³Department of Physics, Kulliyah of Science, International Islamic University Malaysia, 25200 Kuantan, Pahang, Malaysia.





Presentation Time Slot

BASIC HEALTH SCIENCES CATEGORY

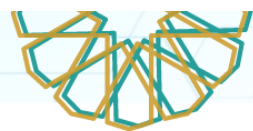
Poster Judging Time:
10.00 a.m. – 12.00 p.m.

Judges:
Assoc. Prof. Dr. Zunariah Buyong (KOM)
Asst. Prof. Dr. Nuraniza Azahari (KAHS)

Poster Judging Time:
12.00 p.m. – 3.15 p.m.

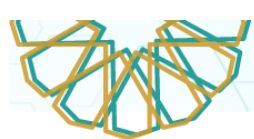
Judges:
Prof. Dr. Sirajudeen Kuttulebbai Naina
Mohamed Salam (KOM)
Asst. Prof. Dr. Mohamed Hassan
Abdelaziz Elnaem (KOP)

NO	SUGGESTED TIME	ID	TITLE	PRESENTER
1	10.00 a.m. - 10.15 a.m.	219	ASSOCIATION BETWEEN FITNESS LEVEL AND MENTAL HEALTH AMONG UNERGRADUATE FEMALE STUDENTS: A STUDY IN IIUM KUANTAN CAMPUS	SUHANA MAMAT
2	10.15 a.m. - 10.30 a.m.	220	70% ETHANOLIC FLAXSEED EXTRACT ENHANCES SAOS-2 CELL PROLIFERATION IN BONE WOUND-HEALING MODEL (IN-VITRO)	SAMA NAZIYAH SHABAN
3	10.30 a.m. - 10.45 a.m.	221	ANTIMICROBIAL EFFECTIVENESS OF FLAXSEED AND NIGELLA SATIVA EXTRACT AGAINST SELECTED ENDODONTIC PATHOGEN	NURUL FATIHAH BINTI MOHAMED YUSOFF
4	10.45 a.m. - 11.00 a.m.	223	REVIEW OF FEMORAL NECK SYSTEM, HOSPITAL PORT DICKSON EXPERIENCE IN STRESS FRACTURE NECK OF FEMUR: A CASE REPORT.	MUHAMMAD ESHAM BIN SAMSUDIN
5	11.00 a.m. - 11.15 a.m.	224	HEMATOMA MIMICKING SOFT TISSUE SARCOMA	MUHAMMAD FAIRUZ BIN ZAKARIA
6	11.15 a.m. - 11.30 a.m.	233	MPTP NEUROTOXIN INDUCES LOCOMOTOR IMPAIRMENTS AND UPREGULATES MITOCHONDRIAL DYSFUNCTION ASSOCIATED GENES IN ZEBRAFISH MODEL OF PARKINSON'S DISEASE	KHAIRIAH RAZALI



7	11.30 a.m. - 11.45 a.m.	237	BREAST CANCER AWARENESS AND MAMMOGRAM SCREENING UPTAKE AMONG FEMALE STAFF IN IIUM KUANTAN CAMPUS AND SASMEC @ IIUM	NUR SHAIRAH BINTI MOHD SHAARI
8	11.45 a.m. - 12.00 p.m.	244	VALIDITY EVIDENCE OF CAT-LC SCALE IN EVALUATING CLINICAL COMPETENCY ATTAINMENT AND TEACHING-LEARNING CHANGES DURING COVID-19 PANDEMIC	NOR FATIHAH AZHAR
9	12.00 p.m. - 12.15 p.m.	245	DETERMINATION ON THE SUSCEPTIBILITY OF STREPTOCOCCUS MUTANS TOWARDS CHLORHEXIDINE OR THEOBROMA CACAO COATED NICKEL-TITANIUM ORTHODONTIC ARCHWIRES	SINDHU SINNASAMY
10	12.15 p.m. - 12.30 p.m.	250	A CASE REPORT OF DELAYED RADIAL NERVE INJURY FOLLOWING MIDSHAFT HUMERUS FRACTURE	DHINESHKUMAR
11	12.30 p.m. - 12.45 p.m.	251	AN AUDIT OF QUALITY OF IN-HOUSE ORTHODONTIC STUDY MODELS IN IIUM DENTAL POSTGRADUATE CENTRE	SALMA SHAKIRAH SAID
12	2.15 p.m. -2.30 p.m.	253	CORRELATION OF ANTEROPOSTERIOR SKELETAL AND SOFT TISSUE CEPHALOMETRIC MEASUREMENTS IN KUANTAN MALAY POPULATION: A PILOT STUDY	MANGAIYARKARA SI A/P SIVAGNANAM
13	2.30 p.m. -2.45 p.m.	255	AN UNFORTUNATE CASE OF SQUAMOUS CELL CARCINOMA IN CHRONIC TIBIA OSTEOMYELITIS	FIRDAUS
14	2.45 p.m. -3.00 p.m.	258	AWARENESS OF GENERAL DENTAL PRACTITIONERS TOWARDS ORAL BIOPSY PROCEDURE	NURUL RUZIANTEE IBRAHIM
15	3.00 p.m. -3.15 p.m.	268	ORAL HEALTH ATTITUDES AND BEHAVIORS AMONG UNDERGRADUATE HEALTH SCIENCE STUDENTS IN IIUM KUANTAN CAMPUS	ZURAINIE ABLLAH

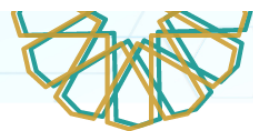




Poster Judging Time: 10.00 a.m. – 3.00 p.m.

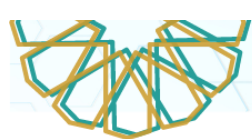
Judges: Asst. Prof. Dr. Firdaus Ismail (KON) | Assoc. Prof. Dr. Niza Samsuddin (KAHS)

NO	SUGGESTED TIME	ID	TITLE	PRESENTER
1	10.00 a.m. - 10.15 a.m.	225	CLASSIFICATION OF QURANIC THEMES: HEALTH CASE OF STUDY	AKRAM M ZEKI
2	10.15 a.m. - 10.30 a.m.	257	EXPLORING AN R PACKAGE TO ANALYSE THE STRUCTURE OF ECOLOGICAL NETWORKS: ECONULLNETR.	MUHAMMAD ZULHAKIMI BIN INCHE MUHAMMAD ZULFIKRI
3	10.30 a.m. - 10.45 a.m.	235	A REVIEW OF DEPRESSION IN PREGNANCY AND ITS ASSOCIATED FACTORS	NURUL HUSNA BINTI AZMI
4	10.45 a.m. - 11.00 a.m.	236	CAREER SATISFACTION AND BARRIERS PERCEIVED AMONG MALAYSIAN DENTISTS WITH EXPANDED ROLES AT SPECIALIST CLINIC	AZIZI BINTI AB MALEK
5	11.00 a.m. - 11.15 a.m.	239	A FINANCIAL NETWORK FOR ENERGY SECTOR OF BURSA MALAYSIA DURING COVID-19 BY USING TRIANGULAR MAXIMALLY FILTERED GRAPH APPROACH	HAFIZAH BAHALUDIN
6	11.15 a.m. - 11.30 a.m.	240	A SCOPING STUDY OF SEA CUCUMBER AS A NEW THERAPEUTIC AGENT IN WOUNDS HEALING TREATMENT	NURSHAZWANI BINTI AZMI



7	11.30 a.m. - 11.45 a.m.	243	CORRELATION BETWEEN SALIVARY LEPTIN LEVELS AND FACIAL SKELETAL PATTERN: A POSSIBLE FUTURE CLINICAL INDICATOR	NORAINI BAKAR	ABU
8	11.45 a.m. - 12.00 p.m.	247	DIALYSIS MANAGEMENT OPERATIONAL FRAMEWORK USING PHILANTHROPY FUNDS WITH STATE ISLAMIC RELIGIOUS COUNCIL AND MINISTRY OF HEALTH COLLABORATION	SITI NADIAH MOHD ALI	
9	2.15 p.m. -2.30 p.m.	249	THE EFFECTS OF STRUCTURED TELEPHONE CALL, WHATSAPP TEXT MESSAGING AND CHEWING GUM ON ORTHODONTIC ANXIETY	CHEONG MING	JOO
10	2.30 p.m. -2.45 p.m.	254	POTENTIAL COLLAGEN-CHITOSAN MEMBRANE LOADED WITH METRONIDAZOLE NANOPARTICLE FOR PERIODONTAL DISEASE TREATMENT.	NORA AZIRAH MOHD ZAYI	BT
11	2.45 p.m. -3.00 p.m.	226	ANIMAL STUDY OF APPLICATIONS OF HYALURONIC ACID FOR DENTAL IMPLANT: A SYSTEMATIC REVIEW	AHMAD BADRUDDIN GHAZALI	





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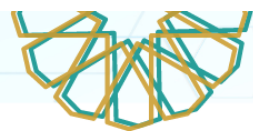
APPLIED HEALTH SCIENCES II CATEGORY

Poster Judging Time: 10.00 a.m. –3.00 p.m.

Judges: Assoc. Prof. Dr. Ahmad Faisal Ismail (KOD)

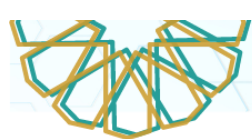
Asst. Prof. Dr. Awis Sukarni Mohmad Sabere (KOP)

NO	TIME	ID	TITLE	PRESENTER
12	10.00 a.m. - 10.15 a.m.	263	THE STUDY ON PATIENT CLINICAL AND FUNCTIONAL OUTCOME AND QUALITY OF LIFE AFTER NEUROTISATION SURGERY FOR BRACHIAL PLEXUS INJURY	LIM WEI KHANG
13	10.15 a.m. - 10.30 a.m.	265	ASSESSMENT OF FASTING GALLBLADDER VOLUME USING ULTRASOUND IMAGING IN RELATION TO WEIGHT AND BODY MASS INDEX AMONG FEMALE STUDENTS FOR DETECTION OF ASYMPTOMATIC GALLSTONES	INAYATULLAH SHAH SAYED
14	10.30 a.m. - 10.45 a.m.	267	IMPACT OF THE RADIOLOGY STAFF'S ATTITUDE TOWARDS UNDERGRADUATE MEDICAL IMAGING STUDENTS: STUDENTS' PERSPECTIVE	INAYATULLAH SHAH SAYED
15	10.45 a.m. - 11.00 a.m.	269	OUTCOME OF CROSS AND LATERAL PINNING DIVERGENT PINNING FOR THE TREATMENT OF THE SUPRACONDYLAR HUMERUS FRACTURE GARTLAND TYPE-III (SCHF III) FRACTURE	AHMAD HUD BIN MAHFOODZ
16	11.00 a.m. - 11.15 a.m.	270	OSTEOMYELITIS IN GRADE I OPEN FRACTURE TIBIA	AHMAD HUD BIN MAHFOODZ



17	11.15 a.m. - 11.30 a.m.	271	TOTAL FLAVONOID CONTENT, TOTAL PHENOLIC CONTENT AND THE ANTIOXIDANT ACTIVITY OF HURREM TITISEMAS LIQUID	AZLINI ISMAIL
18	11.30 p.m. - 11.45 a.m.	276	HAND GESTURE RECOGNITION USING SOFT, ELECTRONIC, STRAIN SENSORS	SAJJAD HOSSEN
19	2.15 p.m. - 2.30 p.m.	273	KNOWLEDGE, PERCEPTION AND PRACTICE OF PROPER COLLIMATION IN PAEDIATRIC CHEST X-RAY AMONG IIUM UNDERGRADUATE MEDICAL IMAGING STUDENTS	INAYATULLAH SHAH SAYED
20	2.30 p.m. - 2.45 p.m.	260	REVISIT OF ROOT AMPUTATION PROCEDURES IN PERIODONTICS: A LITERATURE REVIEW.	JUZAILY BINTI HUSAIN
21	2.45 p.m. - 3.00 p.m.	262	BONE GRAFTING MATERIALS IN PERIODONTAL REGENERATION: A NARRATIVE REVIEW	WAN NOR HAYATI BINTI WAN ABD. MANAN





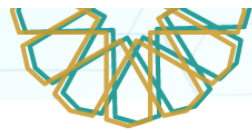
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INNOVATION CATEGORY

Poster Judging Time: 10.00 a.m. – 12.30 p.m

Judges: Assoc. Prof. Dr. Adlina Hj Ariffin (RMC) | Prof. Dr. Suzanah Abdul Rahman (KAHS)
Asst. Prof. Dr. Iskandar Bin Bahari (KOS)

TIME	ID	TITLE	PRESENTER
10.00 a.m. - 10.15 a.m.	230	THE SYNTHESIS OF HYDROPHOBIC MAGNETIC ADSORBENT FOR THE REMOVAL OF PLASTIC WASTE.	SITI NURSYAMSUL BAHRIA CHE NAN
10.15 a.m. - 10.30 a.m.	231	NAM™CHROMPATCH: INNOVATIVE CHROMOLAENA ODORATA LOADED HYBRID HYDROGEL WOUND DRESSING WITH ANTIBACTERIAL ACTION.	NUR 'AINUN MOKHTAR
10.30 a.m. - 10.45 a.m.	238	ANTIMICROBIAL POTENTIAL OF ACTIVE PHARMACEUTICAL INGREDIENT HYDROPHOBIC DEEP EUTECTIC SOLVENTS (DESS)	ENGKU NORMI BINTI ENGKU ISMAIL
10.45 a.m. - 11.00 a.m.	241	DEVELOPMENT OF SICK BOAT SYNDROME (SBOS) QUESTIONNAIRE FOR THE ROYAL MALAYSIAN NAVY (RMN)	NUR SARAH FATIHAH TAMSI
11.00 a.m. - 11.15 a.m.	242	ADVANCED VISUALIZATION USING GEPHI FOR FINANCIAL NETWORK	MUHAMMAD FARHAN BIN MOHD NAZIR
11.15 a.m. - 11.30 a.m.	248	BLACK SOLDIER FLY LARVAE AS POTENTIAL FEED, COSMETIC AND SKINCARE COMPONENTS	SUHAILA MOHD OMAR
11.30 a.m. - 11.45 a.m.	266	ORGANIZATIONAL CROSS-CULTURE ADJUSTMENT - MOULDING LEADERSHIP.	ROZINA MUZAFFAR
11.45 a.m. - 12.00 p.m.	272	TUFF: DISHWASHING SOAP FROM WASTE COOKING OIL	NOOR ARTIKA HASSAN
12.00 p.m. - 12.15 p.m.	274	EFFECTS OF FERMENTATION PARAMETERS ON THE PRODUCTION OF MYCO-COAGULANT FROM LOCAL FUNGI FOR WATER TREATMENT	ABDULLAH AL MAMUN
12.15 p.m. - 12.30 p.m.	275	TWO-SOLITON MOLECULE SCATTERING BY EXTERNAL DELTA POTENTIAL	NOR AMIRAH BUSUL AKLAN



ACKNOWLEDGEMENT

The organizing committee of the IIUM Research and Innovation Day (IRID) 2022 would like to express our heartfelt appreciation to the following organizations and individuals including those whom do not want their names to be mentioned; for their support and contribution to this event.

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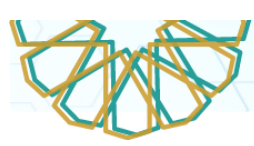
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الجامعة الإسلامية العالمية ماليزيا
INTERNATIONAL ISLAMIC UNIVERSITY MALAYSIA
وَدُنْيَا بَرِيَّتِي أَسْلَمًا رَافِعًا بِمِلَّةِ نَبِيِّنَا
Garden of Knowledge and Virtue

**SULTAN AHMAD SHAH
MEDICAL CENTRE @IIUM**





IIUM SONG: LEADING THE WAY

*Let's lead the way
Enlighten the future
Share the wisdom
Through the spirit of Islam
Revelation and Reason
We shall excel, we shall prevail
Merging faith and knowledge
We're the Khalīfah
We'll fulfil the amānah*

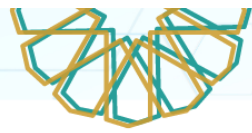
Chorus:

*Together,
We make the world a better place
Forever,
Expand the culture of Iqra'
IIUM,
Is to realise, the meaning of...
Raḥmatan lil-‘ālamīn
Together,
We make the world a better place
Forever,
Expand the culture of Iqra'
IIUM,
Is to realise, the meaning of...
Mercy to all the worlds
For all mankind*

Composer: Allahyarham Johan Nawawi

Lyricist: Prof. Emeritus. Tan Sri Dr. Mohd. Kamal Hasan





NOTES



