

Liyala arallaralı lacalı INTERNATIONAL ISLAMIC UNIVERSITY MALAYSIA

Kulliyyah of Science

Pharmaceutical

Aquaculture



iCAST 2015 INTERNATIONAL CONFERENCE ON ADVANCEMENT IN SCIENCE AND TECHNOLOGY 10th – 12th AUGUST 2015

5th INTERNATIONAL CONFERENCE ON ADVANCEMENT IN SCIENCE AND TECHNOLOGY

'Frontiers in Biotechnology'

10th - 12th August 2015

IMPIANA RESORT CHERATING PAHANG

Organised by

KULLIYYAH OF SCIENCE INTERNATIONAL ISLAMIC UNIVERSITY MALAYSIA

Content	Page
Foreword from the Rector of IIUM	3
Foreword from the Dean, Kulliyyah of Science, IIUM	4
Foreword from the Chairman, iCAST 2015	5
iCAST 2015 Organising Committee	6
Conference Schedule	8
Abstracts of Keynote and Plenary Speakers	11
List of Oral Presentations	14
List of Poster Presentations	22
Acknowledgements	31



Foreword Rector International Islamic University Malaysia

Assalamualaikum warahmatullah and greetings

Welcome to the 5th International Conference on Advancement in Science and Technology (iCAST 2015) organised by Kulliyyah (Faculty) of Science, International Islamic University Malaysia. I am proud of the achievement of this Kulliyyah that have made this conference a success, as it has been previously. My sincere gratitude to the organising committees who have worked tremendously and put lots of efforts for this conference.

The programmes in this conference feature multiple scientific approach and advancements from many geographical regions. Advancements do not only apply to the emergence of sophisticated instrumentations but also the applications of current biotechnology research findings in our everyday life. I encourage all participants and delegates to foster future network and collaborations to create more ideas for research

I am very certain that all delegates and participants will enormously benefit from this conference. I would also hope you have a memorable stay in Malaysia.

Prof. Dato' Sri Dr. Zaleha Kamaruddin

The Rector of the International Islamic University Malaysia



Foreword Dean Kulliyyah of Science International Islamic University Malaysia

Assalamualaikum warahmatullah and good day

It is our great honour and pleasure to welcome all of you to the 5th International Conference on the Advancement in Science and Technology (iCAST 2015). This prestigious conference is being organised by Kulliyyah of Science that brings researchers, students, academicians and institutions to share their research findings in pursuit of biotechnology advancements.

This year's theme of 'Frontiers in Biotechnology' will focus on significant areas of biotechnology that includes industrial biotechnology & bioprocess, medical biotechnology, plant, agriculture and food biotechnology, marine biotechnology, environmental biotechnology and bioethics. As it has always been, this conference will be a great opportunity to stay updated with recent advances in various biotechnology fields. Apart from exchanging ideas and advanced research findings, participants could identify effective networking for collaborations and develop some confidence about presentation.

I would like to extend my most sincere congratulations to all committee members for their dedication and hard work. I would also like to thank the key note speaker, plenary speakers and participants for their support, without them this conference will not be possible.

Last but not least, I wish all our guests and delegates a pleasant and valuable time in Cherating Pahang, Malaysia.

Prof. Dr. Kamaruzzaman Yunus

Dean

Kulliyyah of Science, International Islamic University Malaysia



Foreword Chairman International Conference on Advancement in Science and Technology 2015

Assalammualaikum and Salam Sejahtera

On behalf of the organising committee, it is my proud privilege and pleasure to welcome you all to the 5th International Conference on Advancement in Science and Technology (iCAST 2015) with the theme "Frontiers in Biotechnology".

iCAST 2015 provides an excellent opportunity to all academicians, researchers and students from within and outside Malaysia to disseminate their valuable research at international level and develop collaborative research through effective networking. I hope this conference would be a platform for all participants to establish collaborations in exploring new and innovative biotechnology research.

Special thanks to Kulliyyah of Science (IIUM) for the tremendous support in the organization of this conference. Also, to our sponsors, thank you very much for the financial support. Last but not least, my sincere thanks to the organizing committees for their commitment, time and hard work to ensure a successful conference. To all participants, speakers and session chairs, I wish you all a fruitful and truly inspiring conference.

Thank you.

Asst. Prof. Dr. Zaima Azira Zainal Abidin Department of Biotechnology, Kulliyyah of Science

iCAST 2015 ORGANISING COMMITTEE

BOARD OF ADVISORS

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iCAST 2015 CONFERENCE SCHEDULE

(Early Registration on Sunday, 9th August 2015, 15.00-17.00)

Time	Mond	ay, 10 th August 2015 (I	Day 1)
8.00-8.30	Registration at the hotel lob	by	
8.30-10.00		Officiating ceremony	
	Y.A.B. Dato' Si	ri Diraja Haji Adnan Bi	n Haji Yaakob
		Indra Sari Banquet Hall	-
10.00-10.30	Morning tea		
10.30-11.30		Keynote speaker	
	Prof. Stephen	Bustin, Anglia Ruskin l	Iniversity, UK
	"Challenges th	at impede progress in l	biotechnology"
		Indra Sari Banquet Hall	
		PARALLEL SESSION 1	
12.00-13.00	Environmental	Food	Marine
	Biotechnology	Biotechnology	Biotechnology
	Venue: Indra Sari 1	Venue: Indra Sari 2	Venue: Indah Sari
	Dr.Mohd Shukri Mohd Aris	Dr. Normah Haron	Dr. Noraslinda M. Bunnori
12.00-12.20	EO1	F01	MO1
12.20-12.40	EO2	FO2	MO2
12.40-13.00	EO3	F03	M03
13.00-14.30	Lunch		
		PARALLEL SESSION 2	
14.30-17.00	Medical	Industrial	Others
	Biotechnology	Biotechnology	Venue: Indah Sari
	Venue: Indra Sari 1	Venue: Indra Sari 2	Dr. Khairul Bariyyah Abd
	Dr.'Aisyah Rehan	Dr. Zaima Azira	Halim
14.30-14.50	MEO1	I01	OTO1
14.50-15.10	MEO2	IO2	OTO2
15.10-15.30	MEO3	103	ОТО3
15.30-15.50	MEO4	I04	OTO4
15.50-16.10	MEO5	I05	OTO5
16.10-16.30	MEO6	I06	
17.00-18.00	Evening tea and poster judgi	ing	

iCAST 2015 CONFERENCE SCHEDULE

Time	Tues	day, 11 th August 2015 (Da	ay 2)
9.00-10.00	Plenary speaker I		
	Prof. Lai Oi Ming, Universiti Putra Malaysia		
	"Desig	ner lipids – fats of the fut	ture?"
		Indra Sari Banquet Hall	
10.00-10.30	Morning tea		
		PARALLEL SESSION 1	
11.15-13.00	Industrial	Food & Marine	Bioethics
	Biotechnology	Biotechnology	
	Venue: Indra Sari 1	Venue: Indra Sari 2	Venue: Indah Sari
	Dr. Mohd Faez Sharif	Dr. Tan Teng Ju	Dr. Anil Azura Jalaludin
11.15-11.35	107	FO4	ETO1
11.35-11.55	108	FO5	ETO2
11.55-12.15	109	F06	ETO3
13.00-14.30	Lunch		
		PARALLEL SESSION 2	
14.30-16.30	Medical Biotechnology	Plant	Environment
	Venue: Indra Sari 1	Biotechnology	and others
	Dr. Widya Abd Wahab	Venue: Indra Sari 2	Venue: Indah Sari
		Dr. Zarina Zainuddin	Dr. Azzmer Azzar Abd
14.30-14.50	MEO7	PO1	Hamid OTO6
14.50-14.50	MEO7 MEO8	PO1 PO2	0106 0T07
15.10-15.30	MEO0	P03	0T08
15.30-15.50	MEO10	PO4	0100
15.50-16.10	MEO10 MEO11	P05	
16.10-16.30	MEO12	P06	
17.00-18.00	Evening tea and poster judg		
10.00		00	
20.00-22.00	Grand dinner: Indra Sari Ba	anquet Hall	

iCAST 2015 CONFERENCE SCHEDULE

Time	Wedne	esday, 12 th August 2015	(Day 3)
9.00-9.45	Plenary speaker II		
		ao, National University o	
	"Regulation of flowering	-	ental cues in Arabidopsis"
		Indra Sari Banquet Hall	
9.45-10.30		Plenary speaker III	
	Prof. Dr. Gires	Usup, Universiti Kebang	saan Malaysia
1000 1100		Indra Sari Banquet Hall	
10.30-11.00	Morning tea		
		PARALLEL SESSION	
11.00 12.00	Environmental	Plant	Marina Diata shuala au
11.00-13.00			Marine Biotechnology Venue: Indah Sari
	Biotechnology	Biotechnology	, on do made ban
	Venue: Indra Sari 1	Venue: Indra Sari 2	Dr. Mohd Azrul Naim
11.00 11.00	Dr. Suhaila Mohd Omar	Dr. Phang Ing Chia	Mohammad
11.00-11.20	EO4	P07	MO4
11.20-11.40	E05	P08	MO5
11.40-12.00	E06	P09	M06
12.00-12.20	EO7		MO7
12.20-12.40			M08
12.40-13.00			
13.00-14.30	Lunch		
14.30-17.00	Closing ceremony: Indra Sa	ıri Banquet Hall	
1500 1000		Č.	
17.00-18.00	Evening tea and end of con	ference	

 $Note: The \ conference \ schedule \ is \ subjected \ to \ changes \ without \ prior \ notice.$

KEYNOTE SPEAKER

Challenges that Impede Progress in Biotechnology

Stephen Andrew Bustin

Postgraduate Medical Institute, Faculty of Medical Science, Anglia Ruskin University, Chelmsford, Essex, United Kingdom

The power to clone, modify and create new genes lies at the heart of the remarkable revolution that has characterised the development of biotechnology over the last four decades. Progress has been driven by a range of molecular techniques, foremost amongst which are ingenious inventions such as monoclonal antibodies. DNA sequencing techniques and, crucially, the polymerase chain reaction (PCR). The stunning achievements of molecular and cell biology in utilising these technologies to drive the many accomplishments in medicine, diagnostics, biotechnology and other areas of science are widely acknowledged. However, there is a much disregarded, yet disquieting, flip side to this success story. A combination of constant introduction of new technologies that are increasingly specialised and complex, absence of standardised reagents, protocols and analysis methods, lack of transparency of reporting as well as an increasing pressure to publish at all cost has resulted in a troubling lack of scrutiny accompanying the publication of many peer-reviewed papers. This has resulted in the calamitous situation where many publications report contradictory results and conclusions, where in some fields as many as 90% of published papers cannot be independently reproduced and where by some estimates up to 85% of research and development funding is wasted. This situation cannot improve until there is universal acceptance of this problem and a concerted effort is made by researchers, funders, editors and industry to institute practical steps to address this serious challenge to further advances. The presentation will highlight the challenges and suggest possible solutions aimed at restoring the integrity of the peer-reviewed scientific literature.

PLENARY SPEAKER I

Designer Lipids: Fats of the Future?

Oi Ming Lai

Department of Bioprocess Technology, Faculty of Biotechnology & Biomolecular Sciences, Universiti Putra Malaysia

Malaysia is the fattest nation in South East Asia. A recent survey by Socso Malaysia on 308,039 Malaysian employees in 2013 showed that 36.94% were overweight, 17.63% were obese, 13.14% had hypertension, 61.76% had hypercholesterolemia and 8.45% had diabetes (The Star, 27 Feb 2015). Malaysian's present lifestyle and culture were among the reasons cited for the rise in these figures. This fat phenomenon has fuelled the current global anti-obesity market of over USD 240 billion/year. As consumers today become more aware of issues such as "trans fat," "hydrogenation" and "saturated fats", anti-obesity designer lipids such as diacylglycerol (DAG) oil and medium-and long-chain triacylglycerols (MLCT) becomes very appealing and is a very real possibility in meeting the challenges of the anti-obesity consumer market. Just as micronutrients were lauded to prevent disease, so too has designer lipids like DAG on obesity and weight-related disorders. The physiological effect of DAG is believed to be attributed to its metabolic pathway, which is different from the normal triacylglycerol (TAG) metabolism. With DAG, we can combine the different positive and nutritionally valuable FA in palm oil to produce a potent designer lipid with maximum benefits and minimum adverse effects. In this paper, various patented processes for DAG production using several reaction routes are discussed with emphasis on its application and animal trials involving palm oil. More intensive research is required before we can explore the commercial scale production of palm-based designer lipids, which may well be the "Fats of the Future."

PLENARY SPEAKER II

Regulation of Flowering Responses to Environmental Cues in Arabidopsis

Hao Yu

Department of Biological Sciences and Temasek Life Sciences Laboratory, National University of Singapore, 117543, Singapore

Plants adjust the timing of the transition to flowering to ensure their reproductive success in changing environments. Temperature and light are major environmental signals that affect flowering time through converging on the transcriptional regulation of *FLOWERING LOCUS T (FT)* encoding the florigen in *Arabidopsis*. In this talk, I will discuss a novel MYB transcription factor EARLY FLOWERING MYB PROTEIN (EFM) that plays an important role in directly repressing *FT* expression in the leaf vasculature. *EFM* mediates the effect of ambient temperature on flowering and is directly promoted by another major *FT* repressor, *SHORT VEGETATIVE PHASE*. EFM interacts with an H3K36me2 demethylase JMJ30, which forms a negative feedback regulatory loop with the light-responsive circadian clock, to specifically demethylate an active mark H3K36me2 at *FT*. Our findings suggest that EFM is an important convergence point that mediates plant responses to temperature and light to determine the timing of reproduction.

LIST OF ORAL PRESENTATIONS

Category	Code	Title and Author (*Presenting author)
ENV	E01	N. Jebun*, Abdullah Al Mamun, Md. Zahangir Alam, Mohamed Ismail Abdul Karim and Raha Ahmad Raus Evaluation of entrapment potentiality and turbidity removal efficiency of fungi
ENV	E02	Hizrri A.*, Khadijah, H., Mohd Shukri, M.A., Noor Faizul Hadry, N. and Norhidayah, A. Indoor microbial contamination and its relation to physical indoor air quality characteristic at different types of library settings and location
ENV	E03	Muhammad Muhammad Nmaya*, Ishaq Aisha Gogoba , Mohammed Arif Agam, Hazel Monica Matias-Peralta, Nadiah Khaled, Jibrin Alhaji Yabagi and Muhammad Isa Kimpa Biosorption of heavy metals by Scenedesmus sp. isolated from the temporary waters of Endau rompin, Johor, Malaysia
ENV	EO4	Maryam Z.*, Mohd Shukri, M.A., Rafiqah Azira, M.R., Noor Faizul Hadry, N. and Norhidayah, A. Indoor microbial contamination in serving food via water mist aerosol at public restaurants
ENV	E05	Noraishah A. Majid*, Nur Syazila Ramli and Ing Chia Phang Pelargonium radula as a plant bioindicator in monitoring Hg in drinking water
ENV	E06	Hazrin A. H.*, Anis Syazana, A.A., Mohd Shukri, M.A., Noor Faizul Hadry, N. and Norhidayah, A. Indoor microbial contamination and its relation to physical indoor air quality characteristic at different types of laboratory settings
ENV	E07	Mohd Fikri Akmal Khodzori*, Shahbudin Saad, Noor Faizul Hadry Nordin, Muhammad Faris Salleh, Normahwaty Mohamed Noor and Mohd Husaini Rani Diversity and distribution of Euphyllidae corals in Tioman Island: emphasis on the genetic variation of Euphyllia cristata

FOO	FO1	Nadiah Syuhada Abd Samad*, Azura Amid, Dzun Noraini Jimat, and Nurul Aqilah Ab. Shukor Isolation and identification of halophilic bacteria producing halotolerant protease
FOO	F02	Haswani Maisarah Mustafa*, Noor Azirah Segu Jalaludeen, Noriza Ahmad, Faridatul Ain Mohd Rosdan, Aida Safina Aridi, Zainal Abidin Mohd Yusof, Marmy Roshaidah Mohd Salleh and Nur Azimah Idris Antioxidant capacity of shoot, seed and peel of <i>Carica papaya</i> as a functional food ingredient
F00	FO3	Anida Aminudin*, Muhammad Shamsul, Ruhil Hayati Hamdan, Rumaizi Shaari, Mariam, Firdhaus Mad Nordin, Roselina Ahmad Saufi and Soon, Jan Mei Extraction and characterization of collagen extract from the skin of commercialized freshwater fish
F00	FO4	Aisha Ishaq Gogoba*, Hazel Monica Matias-Peralta, Hatijah Basri and Muhammad Muhammad Nmaya Inhibitory effect of pigment extract from <i>Scenedesmus sp.</i> on food spiked with foodborne <i>Staphylococcus aureus</i>
F00	F05	Norizzah Abd Rashid*, Nur Azimah Kamarulzaman and Zaliha Omar Effects of chemical and enzymatic interesterification on the physicochemical properties of palm oil and palm kernel oil blends
FOO	FO6	Muhamad Shafiq Abu Hassan*, Nik Nornadhirah Nik Ahmad Kamil, Nurul Ashima Hamdan, Shafida Abd Hamid, Noraslinda M Bunnori Proteomics study on meat quality of Malaysian broilers in comparison with indigenous chicken
MAR	MO1	Normawaty Mohammad-Noor*, Noraslinda Mohammad Bunnori, Nurul Ashima Hamdan, Po Teen Lim, Chui Pin Leaw, Azlan Md Noor and Norazizah Kemat Harmful algal bloom in Kuantan Port, Pahang Malaysia: The presence of paralytic shellfish poisoning (PSP) species, <i>Pyrodinium bahamense</i> var compressum and Alexandrium tamiyavanichii

MAR	M02	Shaidatul Nadia Waludin*, Ing Chia Phang and Yukinori Mukai Genetic variation of wild tiger grouper (<i>Epinephelus fuscoguttatus</i>) obtained from Kedah, Malaysia
MAR	МОЗ	Muhammad Hamizan, Y.*, Shahbudin, S., Noor Faizul Hadry, Mahfuzah, Y. and Rafindde, R. Potential of artificial live rock as substrate for coral recruitment and macrobenthic organisms
MAR	MO4	Nor Salamah Mohamad Hidayat*, Normawaty Mohammad-Noor, Deny Susanti, Shahbudin Saad and Yukinori Mukai The effects of different pH and salinities on Carrageenan yield of Gracilaria manilaensis
MAR	M05	M. Nor Najwa*, A. Muhd Danish Daniel, Mat Amin, K.A. and A.W.M. Effendy Detection of virulence genes in <i>Vibrio alginolyticus</i> isolated from green mussels; <i>Perna viridis</i>
MAR	M06	Mohd Husaini Rani*, Shahbudin Saad, and Mohd Fikri Akmal Khodzari Scleractinian coral recruitment density in coastal water of Balok, Pahang
MAR	M07	Nurul Ashima*, Siti Noor Hasmiza, Muhamad Shafiq and Noraslinda M Bunnori Fundamental studies of selected <i>Alexandrium</i> spp. at different growth phases and their effects on proteomics of shellfish
MAR	M08	Amira Yusoff*, Firdaus Sallehudin and Yukinori Mukai Survival and growth rates of Sutchi catfish Juveniles, Pangasianodon hypophthalmus under different light wavelengths and intensities
MED	MEO1	Nursyuwari Nayan*, Syamsiah Aini Shohaimi, Raha Ahmadi Raus, Afzan Mat Yusof and Ong Geok Huai Effect on immune response and virus shedding in the chicken vaccinated against inactivated local strain of Newcastle disease virus Genotype VII
MED	MEO2	Nurul Aqilah Ab. Shukor*, Azura Amid, Mohamed Ismail and Nadiah Syuhada Abd Samad Isolation of thermotolerant bacteria producing fibrinolytic enzyme

MED	MEO3	Waqar Al-Kubaisy*, Nor Aini M Noor, Nik Shamsidah NI and Usama Al-Nasirie Prevalence and risk factors of hepatitis C virus infection in haemodialysis patients: Testing Antibodies, RNA & genotypes
MED	MEO4	Norazurashima Jamaludin*, Syawal Shafie Abdul Razak, Farah Hanan Fathihah Jaffar, Khairul Osman and Siti Fatimah Ibrahim Does time of exposure from smart phone affect severity of sperm DNA damage?
MED	МЕО5	Tee Jong Huat*, Amir Ali Khan, Jafri Malin Abdullah, Fauziah Mohamad Idris and Hasnan Jaafar MicroRNA expression profiling and functional network analysis upon enhanced neurogenic differentiation of Mesenchymal stem cells suggest MiR-22 as important regulator
MED	MEO6	Noraina Mohd Bakri*, Khairul Osman, Nurul Atikah Osman, Nurhaslina Hasan, Farah Hanan Fathihah Jaffar, Zulaiha Abdul Rahman and Siti Fatimah Ibrahim Embryo apoptosis identification: oocyte grade or cleavage stage?
MED	MEO7	Marmy Roshaidah Mohd Salleh*, Izyan Izzatie Binti Abdul Razak, Faridah Ghafar, Norulakmal Nor Hadi, Azimah Idris, Zainal Abidin, Haswani Maisarah, Norhayati Saharudin and Asimi Ana Ahmad Formulation of herb soap from <i>Moringa oleifera</i> seeds extract
MED	MEO8	Nur Farahiah Zakaria *, Mohammed Arifullah, Shamsul Muhammad and Seri Intan Mokhtar Study of extraction procedure for allergenic protein analysis of common Kelantan's fruit flower from genus <i>Mangifera</i> , <i>Durio</i> and <i>Syzygium</i>
MED	MEO9	Muhammad Zaki Ramli*, Norra Harun, Suhaila Abdullah, Norlelawati A. Talib and Naznin Muhammad Preliminary analyses on the histopathological interpretation of gastrointestinal stromal tumour (GIST) in HTAA, Kuantan, Pahang
MED	MEO 10	Nur Amalina Ahmad*, Suzanah Abdul Rahman, Chan Kit-Lam, Nadia Hanis Abdul Samat, Syazana Mohamad Zahri and 'Afif Raihan binti Abdullah Short-term effects of TAF 273 on oestrous cycle and reproductive hormones of normal rats

MED	MEO 11	Nur Amirah Md Sungif*, Ramlah Zainudin, Dayangku Norlida Awang Ojep, and Ahmad Hata Rasit Study of wound healing in rats treated with skin of poisonous frog, Odorrana hosii
MED	MEO 12	Nurshamimi Nor Rashid*, Rohana Yusof, and Roger J. Watson The relationship of mammalian DREAM complex with human papillomavirus E7 proteins
IND	IO1	Nurul Hazwani Shamsudin, Chee Fah Wong*, Raja Noor Zaliha Raja Abd. Rahman and Mohd Shukuri Mohamad Ali Tight repression of elastase strain K overexpression by $P_{T7\ (A1/04/03)}$ shuttle expression system
IND	I02	Zubainatu Abba * and Hazel Monica Matias-Peralta Exploring carbohydrates of <i>Botryococcus</i> spp. as a potential raw material for biofuel production: A brief review
IND	103	Hawa Mas Azmar Ahmad*, Hazrina Ab Hadi and Norazian Mohd Hassan Preparation of natural chitosan from pens of squid <i>Loligo spp.</i>
IND	I04	Siti Marhamah Binti Drahaman* and Aisyah Binti Mohamed Rehan Analysis on the impurities level of purified plasmid DNA using commercial purification kit and conventional alkaline lysis method
IND	105	Raina J.Awale, Mohamed Elwathig Saeed Mirghani, Hazleen Anuar, Norasikin Samat and Fathilah binti Ali Preparation and characterizations of plasticized Polylactic Acid/Starch blend
IND	106	Hazwani Binti Husain*, Ahmad Yazid Bin Rahman, Norshazila Binti Senawi, Yamunasri A/P Kuthiah, Syaliyana Binti Khairudin and Thivya A/P Nadarajah Development of Biodegradable Film From <i>Pleurotus Sajor-caju</i> Waste
IND	107	Nor Farhana Hamid* and Farhan M. Said Factorial design on screening factors for red pigment by Monascus purpureus FTC 5356

IND	108	Mohamad Al Aamin B. Razali* and Farhan M. Sai Red pigment production by <i>Monascus purpureus</i> in stirred-drum bioreactor
IND	109	Claira Arul Aruldassa*, Chidambram Kulandaisamy Venil, Vikneswaran Murugaiyah and Wan Azlina Ahmad Production of violet pigment from <i>Chromobacterium violaceum</i> UTM5 grown in liquid pineapple waste
ЕТН	ETO1	Abdul Haseeb Ansari* Ethical and islamic aspects of biotechnology researches and human consumption of GMOs
ЕТН	ETO2	Auwalu Abdullahi*, Azmi Hassan, Norizhar Kadarman and Ahmadu Saleh Public health hazards due to poor abattoir management in Cinderin residential neighbourhoods, Kuala Terengganu, Malaysia
ЕТН	ETO3	Muhammad Aa'zamuddin Ahmad Radzi*, Abdurezak Abdulahi Hashi, Zainul Ibrahim Zainuddin, Rozlin Abdul Rahman, Norhamiza Mohamad Sukri, Mohd Yusof Mohamad, Noorhidayah Md Nazir, Wan Ahmad Dzulkarnain Razali and Munirah Sha'ban Human animal chimerical transplantation in tissue engineering experimentation: Exploring the ethical issues
PLA/AGR	P01	Seri Intan Mokhtar* and Nur Ain Abd Aziz Changes in physicochemical characteristics and organic acids during ripening of five tropical fruit species in Malaysia
PLA/AGR	PO2	Parveen Jamala*, Olorunnisola Kola Saheeda, Irwandi Jaswir and Tijani I.D. Ruqayyah Bioconversion of seaweed with white rot fungi for production of protein enriched fish feedstock
PLA/AGR	P03	Abdul Fatah A. Samad*, Ismanizan Ismail and Munir Abdul Murad Deep sequencing analysis of miRNA in <i>Persicaria minor</i> leaves induced by Fusarium oxysporum

PLA/AGR	P04	Febri Doni*, Anizan Isahak, Che Radziah Che Mohd Zain, Norela Sulaiman, F Fathurahman, Wan Nur Syazana Wan Mohd. Zain, Ahsan A. Kadhimi, Arshad Naji Alhasnawi, Abidah Ashari, Norman Uphoff and Wan Mohtar Wan Yusoff Increasing Fitness of Rice Plants by Microbes
PLA/AGR	P05	Md. Anowar Hossain* and Hairul Azman Roslan Molecular characterization and functional analysis of GH18 chitinases from sagu palm (Metroxylon sagu)
PLA/AGR	P06	Maria Nejjari*, Renlin Xu and James T. Tambong Detection, identification and differentiation of corn pathogen Pantoea stewartii subspecies by membrane-based multi-gene oligonucleotide array
PLA/AGR	P07	Sharmilla Ashokhan*, Jamilah Syafawati Yaacob and Saiful Anuar Karsani Effect of plant growth regulators on production of callus in <i>Azadirachta indica</i> and characterization of resulting calli
PLA/AGR	P08	Hanisah Ali*, Jamilah Syafawati Yaacob and Saiful Anuar Karsani Organogenesis induction from <i>Orthosiphon stamineus</i> (Misai Kucing) supplemented with IAA and Kinetin
PLA/AGR	P09	Nur Shuhada Tajudin*, Mohamed Hanafi Musa, Idris Abu Seman and Sivakumar Balasundram Variability of copper and zinc in oil palm planted on acid soil using geospatial information system technology
ОТН	OTO1	Deny Susanti*, Anis Fadhlina Izyani Binti Awang, Muhammad Taher Bakhtiar The mode of antimicrobial action of <i>Cinnamomum burmannii's</i> essential oil & cinnamaldehyde
ОТН	0Т02	Faridah Ghafar*, Tengku Nur Naadzirah Tengku Nazrin, Marmy Roshaidah Mohd Salleh, Norulakmal Nor Hadi, Nazerah Ahmad, Ahmad Azahari Hamzah, Zainal Abidin Mohd Yusof, and Intan Nurjahan Azman Extraction and evaluation of total phenolic content and total flavanoid content in Moringa oleifera seed oil

ОТН	ОТОЗ	Fatimatul Akmal Sulaiman*, Nurfarahin Fuad, Farawahida Rahman, Anwar Iqbal and Deny Susanti Darnis Antioxidant and antimicrobial properties of <i>Tinospora crispa</i> stems methanolic extract
ОТН	OT04	Zatul Iffah Mohd Arshad*, Azura Amid, Mohd Ezza Faiez Othman Comparison of cell disruption for <i>E. coli</i> BL21-AI Expressing Recombinant Bromelain
ОТН	ото5	Raha Ahmad Raus, Norhayati Abdullah, Nurul Fakhriah Ismail and Munira Shahbuddin Extraction and evaluation of anti inflammatory activity of Spathiphyllum cannifolium
ОТН	ОТО6	Nur Azfa Shuib*, Anwar Iqbal, Fatimatul Akmal Sulaiman, Izzatie Razak and Deny Susanti Antioxidant and antibacterial activities of <i>Ruta angustifolia</i> extract
ОТН	ОТО7	Ahmadu Saleh*, Rokiah Zainuddin, Auwalu Abdllahi and Yusha'u Shu'aibu Baraya 2,2-diphenyl-1-picryal-hydrazyl free radical scavenging activity and estimation of total phenolic and flavonoid content of leaves, bark and stem of <i>Trema orientalis</i> linn. Blume. Extracts
ОТН	0Т08	Siti Aisha Mohd Radzi*, Yosie Andriani, Habsah M., Tengku Sifzizul Tengku Mohamad, and Jasnizat Saidin In-vitro anti-inflammatory activity of secondary metabolites from sponges Theonella sp. associated bacteria

LIST OF POSTER PRESENTATIONS

Category	Code	Title and Author (*Presenting author)
PLA/AGR	PP1	Kaveh Azimzadeh* and Sohrab Rasouli Alterations of malondialdehyde and heat shock Protein-27 in sheep with naturally infected liver cystic echinococcosis
PLA/AGR	PP2	Sohrab Rasouli* and Kaveh Azimzadeh Evaluation of total sialic acid and adenosine deaminase in sheep with naturally infected cystic echinicoccosis
PLA/AGR	PP3	Ahsan A. Kadhimi*, Arshad Naji Alhasnawi, Anizan Isahak, Azhar Mohamad, Febri Doni, Wan Mohtar Wan Yusoff and Che Radziah Che Mohd Zain Induction of genetic variation for drought tolerance in callus two rice varieties (MRQ 74 & MR269)
PLA/AGR	PP4	Anas Akmal Ag. Ismail*, Zaima Azira Zainal Abidin and Zarina Zainuddin Screening of chloroplast promoters for Hevea brasiliensis chloroplast transformation vector
PLA/AGR	PP5	Nazirah Abdullah*, Nor Hasnida Hassan, Muhammad Fuad Yahya, Siti Suhaila A. Rahman, Haliza Ismail, Rosdi Koter, Rozidah Khalid and Rohani Abdullah Preliminary study on in vitro propagation of <i>Macaranga tanarius</i> (Mahang)
PLA/AGR	PP6	Mohammed Suhaimee Abd Manaf*, Saadiah Ibrahim, Marzukhi Omar, Roslan Che Noh, and Nazariah Nazri Development of Vibrio and WSSV-free maturation feed formulation for Tiger Shrimp, <i>Penaeus monodon</i> , broodstock
PLA/AGR	PP7	Haliza Ismail*, Siti Suhaila Abd Rahman, Nor Hasnida Hassan, Nazirah Abdullah and Muhd Fuad Yahya In vitro production of endangered orchid <i>Grammatophyllum speciosum</i> Blume (Tiger Orchid) using temporary immersion system

PLA/AGR	PP8	Siti Suhaila A.R.*, Norwati M., Nor Hasnida H., Haliza I., Nazirah A., Muhd. Fuad Y., Normah B. and Muhd. Anwar, A. Development of <i>Neolamarckia cadamba</i> (kelempayan) tissue culture techniques for sustainable supply of planting material for commercial plantation
PLA/AGR	PP9	Siti Zulaiha Hanapi*, Nurhaziqah Supari, Siti Atiqah Zainul Alam,Muhammad Arshad Javed, Abd Rahman Jabir Mohd Din, Norliza Abd Latiff, Lee Chew Tin, Hesham El Enshasy and Mohamad Roji Sarmidi Response of Malaysian traditional upland rice to different fertilizers
PLA/AGR	PP10	Siti Nurul Farhana Abu Bakar*, Ing Chia Phang, Mohd Shukor Nordin and Maizatul Akma Ibrahim Phenotypic evaluation of fifteen Glycine max (L.) Merrill (vegetable soybean) varieties under mineral and bris soils of Malaysia
PLA/AGR	PP11	Mohd Shukor Nordin and Nor Hafizah Zakaria* Varieties and in vitro seed production technique for growing potato (Solanum tuberosum L.) under harsh and problematic BRIS soil of Pahang
PLA/AGR	PP12	Syafiqah Nabilah, S. B.*, Farah Fazwa, M. A., Nor Hasnida, H., Siti Suhaila, A. R., Nor Hayati, S., Mohd Zaki, A. and Mohamad O. Selection of suitable propagation method in superior clone of <i>Labisia pumila</i> var. alata for future planting stock production
PLA/AGR	PP13	Nur Syazila Binti Ramli*, 'Aisyah Bt. Mohamed Rehan and Noor Hasniza Binti Md. Zin Proteomic analysis of rice storage proteins in relation to nutrient quality of three different rice cultivars
PLA/AGR	PP14	Gayathri Arumughan* and Sam Cherian Evaluation of salinity tolerance in a Malaysian rice variety - MR219
PLA/AGR	PP15	Izzat A. Fauzi* and Ismail Ismanizan Computational analysis of dynamic regulation of candidates miRNAs on PmF-box1 in Persicaria minor

PLA/AGR	PP16	Mardhiah Ismail*, Megat Ahmad Kamal Megat Hanafiah, Mohamad Shahrizad Zainal Abidin, Zurhana Mat Hussin and Khadijah Khalid Kinetics of methylene blue adsorption on sulphuric acid treated coconut (Cocos nucifiera) frond powder
PLA/AGR	PP17	Faisal Abubakar*, Asmad Kari, Zawawi Ismail and Tijjani Haruna Usman, and Abdul Rashid Baba Nematode resistance to anthelmintic in goat farms in Terengganu
PLA/AGR	PP18	Mohd Zaki, A.*, Nor Fadilah, W., Abdul Rashid, L., Nurnadiah, R., Mohd Radzi, A., Mohamad Lokmal, N., Ahmad Fauzi, M.S., Farah Fazwa, M.A., Ab. Rasip, A.G., Regina Mariah, J. and Mohamad, O. Preliminary Phytochemical Screening of Polysaccharides Content for Selection of High Quality Planting Materials: Eurycoma longifolia
PLA/AGR	PP19	Rozida Mohd Khalid*, Andy Bailey and R.J. Cox Annotations and domain analysis of polyketide synthase genes in fungal wheat pathogen, Mycosphaerella graminicola
PLA/AGR	PP20	Arshad Naji Alhasnawi*; Ahsan A. Kadhimi; Anizan Isahak; Azhar Mohamad; Wan Mohtar Wan Yusoff and Che Radziah Che Mohd Zain Improvement of biochemical characterization of callus rice under ascorbic acid and salt stress conditions
PLA/AGR	PP21	Rabiatul Adawiah Zainal Abidin*, Zulkifli Ahmad Seman, Shahril Ab Razak and Norzihan Abdullah Discovery of potential SSR markers through genome wide analysis of maize B73 genome
PLA/AGR	PP22	Dhiya Dalila Zawawi*, Mohd Fahmi Abu Bakar and Siti Nurkhalida Abd. Kadir Effect of 2,4-dichlorophenoxy acetic acid on callus induction of Cocos nucifera L. hybrid matag

MED	MEP1	Radiah A. Ghani*, Najwa Farhah Md. Yusof, Nik Nurasyikin Nik Abdul Malek and Noorlelawati A. Talib Ornithine decarboxylase gene expression in human lung adenocarcinoma cells, A549 treated with pomegranate juice
MED	МЕР2	A. S. Syamsiah*, A. R. Raha, G. H. Ong, B. L. Leow, M. A. Basirah, Nursyuwari N. and M. Y. Afzan Sequence and phylogenetic analysis of Newcastle Disease Virus Genotype VII isolated in Malaysia during 1999-2012
MED	МЕР3	Rosmilah Misnan*, Noor Asyikin Kamarazaman, Zailatul Hani Mohd Yadzir, Noormalin Abdullah, Mohd Faizal Bakhtiar and Shahnaz Murad Identification of tropomyosin as the major allergen of black tiger prawn (<i>Penaeus monodon</i>) by an allergenomic approach
MED	MEP4	Elyna Fatinie Jamil* and Radiah Abdul Ghani Antiproliferative activity of selected prophetic medicinal plants on human lung adenocarcinoma cells, A549
MED	МЕР5	Nur Azfa binti Muhammad Shuib*, Deny Susanti, Anwar Iqbal and Mazidatulakmam Miskam Rice husk ash silica as a potential drug carrier
MED	МЕР6	Afzan Mat Yusof*, Mardhiah Mohammad, Norbaizura Syed Bahrom, Syahirah Kaja Mohideen, Ridhwan Roshdi, and Adibah Parman Characterization of collagen (IV) mRNA in cell lines of breast cancer
MED	МЕР7	Mardhiah Mohammad*, Afzan Mat Yusof, Syahirah Kaja Mohideen, Sharifah Norbaizura Syed Bahrom, Ridhwan Roshdi, and Adibah Parman Expression of Type IV collagen α1(IV)– α6(IV) chain mRNA in normal and in skin malignant melanoma
MED	МЕР8	Nadia Hanis Abdul Samat*, Suzanah Abdul Rahman and Amalina Ahmad. The chemopreventive effects of <i>Nigella sativa</i> extract and thymoquinone in a paternal toxicity study

MED	МЕР9	Muzaida Aminah Mohd* and Tengku Sifzizul Tengku Muhammad IL-6 regulates gene expression of acute phase proteins via CCAAT/enhancer binding proteins (C/EBPs) and peroxisome proliferator activated receptor alpha (PPARα) in liver cells
MED	MEP10	Nurlaili Najmie Mohd Hussain*, Norazian Mohd Hassan and Bisha Fathamah Uzir Isolation, characterization and cytotoxic activity of arborinine from <i>Glycosmis pentaphylla</i> (Retz.) DC. on human mammary gland adenocarcinoma (MCF7) cell line
MED	MEP11	Salina Sabudin*, Sudirman Sahid, Nor Shahida Kader Bashah, Zul Hazmi Hussin and Muhamad Anas Marzuke Physical properties characterization of porous calcium phosphate scaffold for bone tissue engineering
MED	MEP12	S. Ibrahim*, S. Sabudin, S. Sahid, M. A. Marzuke, Z. H. Hussin, N. S. Kader Bashah and K. Jamuna-Thevi Bioactivity studies and adhesion of human osteoblast (hFOB) on silica-biphasic calcium phosphate material
MED	MEP13	Tee Jong Huat*, Amir Ali Khan, Jafri Malin Abdullah, Fauziah Mohamad Idris and Hasnan Jaafar Insulin-like growth factor 1 enhances neurogenic differentiation of bone marrow-derived Mesenchymal stem cells
MED	MEP14	Norhamiza Mohamad Sukri*, Muhammad Aa'zamuddin Ahmad Radzi, Rozlin Abdul Rahman, Ahmad Hafiz Zulkifly, Abdurezak Abdulahi Hashi and Munirah Sha'ban Identifying the potential of transcription factor SOX9 gene transfer in chondrocytes differentiation and articular cartilage formation <i>in vitro</i>
MED	MEP15	Ng Sze Han*, Wan Amir Nizam Wan Ahmad and Wan Rosli Wan Ishak In vitro hypoglycemic mechanism of Pleurotus sajor-caju powder and other selected commercial dietary fiber sources

MED	MEP16	Widya A. Wahab*, H. Julia Ellis and Paul J. Ciclitira Development of an improved cocktail competition ELISA assay for gluten quantification in starches
MED	MEP17	Rozlin Abdul Rahman*, Norhamiza Mohamad Sukri, Noorhidayah Md Nazir, Muhammad Aa'zamuddin Ahmad Radzi, Ahmad Hafiz Zulkifly, Aminudin Che Ahmad, Suzanah Abdul Rahman and Munirah Sha'ban Evaluation of three-dimensional construct engineered from poly(lactic-coglycolic acid)/fibrin hybrid scaffold seeded with rabbit bone marrow Mesenchymal stem cells for osteochondral defect repair
MED	MEP18	Maisarah Abdullah* and Anil Azura Jalaludin Screening and comparison of the antidiabetic properties of <i>Phyllanthus niruri</i> in alloxan-induced rats
MED	MEP19	Abdul Latif Osman, Syed Mohamed Syed Abdullah, Siti Marhamah Drahaman, Mohd Firdaus Raih, Noraslinda Muhamad Bunnori and Aisyah Mohamed Rehan* DNA Amplification and Cloning of Several Target Genes from Burkholderia pseudomallei
MED	MEP20	Wisam Nabeel Ibrahim Assesment of nitric oxide synthase Glu298Asp gene polymorphism in patients with iscemic heart diseases
MED	MEP21	Sama N. Shaban*, Solachuddin Jauhari Arief Ichwan, Basma E. Mustafa Al-Ahmad, Muhannad Ali Kashmoola, Nazih Sh. Mustafa and Muhammad Taher Cytotoxic study of <i>Linum usitatissimum</i> and <i>Salvia officinallies</i> extracts on MCF-7 cell line (comparative study)
MED	MEP22	Ishola Afeez Adekunle*, Nor Zamzila Abdullah, Norlelawati A. Talib, Naznin Muhammad, Zunariah Buyong, Yi Yi Myint, Abdul Hadi Mohamed, Niza Samsudin and Radiah Abdul Ghani Chronic Monosodium methylarsonate (MSMA) exposure induces oxidation of Low Density Lipoprotein (LDL) and early atherosclerosis development

F00	FP1	Aida Safina Aridi*, Noriza Ahmad, Faridatul Ain Mohd Rosdan, Haswani Maisarah Mustafa, Fatihah Sakinah Mohd Hanaffi, and Mazidah Abdul Rahman Physicochemical properties of low fat meat patties produced by modified sago starch as fat replacer
F00	FP2	Sukirah Abdul Rahman*, Ainaa Abdul Kahar, Azlina Mansor, Dang Lelamurni Abdul Razak, Aminuddin Hussin, Shaiful Adzni Sharifudin, Tan Geok Hun, Nur Yuhasliza Abdul Rashid, Muhammad Anas Othaman and Kamariah Long Identification of potential indigenous microbe from local fermented vegetables with antimicrobial properties
MAR	MP1	Nurfathiah Abdul Malek*, Zarina Zainuddin, Ahmed Jalal Khan Chowdhury and Zaima Azira Zainal Abidin Diversity and antimicrobial activities of mangrove actinomycetes isolated from Tanjung Lumpur, Kuantan
MAR	MP2	Akbar John, B., Jalal, K.C.A.*, Ummu Nasuha, M.A., Noor Faizul, H. N. and Ambak, M. A. DNA barcoding and genetic variation in caged pangasiids in Pahang river basin
MAR	МР3	M. Munirah*, A. M. D. Daniel, M. N. Najwa and A. W. M. Effendy Molecular typing of Vibrio alginolyticus isolated from green mussels (<i>Perna viridis</i>) in Marudu Bay, Sabah using random amplification polymorphic DNA-PCR (RAPD) analysis
MAR	MP4	Zuhairi, A., Aisyah, A*, Shahbudin, S., Mohd Husaini, R., Mohd Fikri Akmal, K., and Muhammad Hamizan, Y. The effect of current in scleractinian coral recruit dispersal on artificial substrates
MAR	MP5	Firdaus Sallehudin*, Amira Yusoff, Nai Han Tan and Yukinori Mukai The optimum light wavelength and light intensity for production of African catfish, Clarias gariepinus juveniles.
MAR	MP6	Mohd Zaini Mustapa*, Shahbudin Saad, Muhammad Salihi Abdul Hadi and Kamaruzzaman Yunus Beach-face Morphodynamics along selected coast of Pahang

IND	IP1	Dang Lelamurni Abd Razak*, Nur Yuhasliza Abd. Rashid, Anisah Jamaluddin, Shaiful Adzni Sharifudin and Kamariah Long Comparative study of antioxidant activities, cosmeceutical properties and phenolic acid composition of fermented rice bran and coconut testa
IND	IP2	Anisah Jamaluddin*, Dang Lelamurni Abd. Razak, Nur Yuhasliza Abd. Rashid, , Shaiful Adzni Sharifudin, Ainaa Abd. Kahar and Kamariah Long Effect of solid-state fermentation on biological activities of coconut testa and rice bran using <i>Monascus purpureus</i>
IND	IP3	Fatimatul Akmal Sulaiman*, Deny Susanti, Mohammad Anwar Mohamed Iqbal and Mazidatulakmam Miskam Isolation of secondary metabolites from <i>Quercus infectoria</i> galls and their antimicrobial activity
IND	IP4	Yara Hunud Abia Kadouf* and Nassereldin Ahmad Kabbashi, Md Zahangir Alam, Mohamed Elwathig Saeed Mirghani Extraction of biodiesel from enzymatic synthesis of <i>Moringa oleifera</i> oil via transesterification
ОТН	OP1	Khaled. A. A. Alkadi*, Muhammad Taha, Nor Hadiani Ismail, Syahrul Imran, Aishah Adam and Syed Adnan Ali Shah Antiglycation and antioxidant potential of novel imidazo[4,5-b]pyridine benzohydrazones
ОТН	OP2	Khairul Bariyah Binti Abd Hamid*, Mohd Armi Abu Samah and Mohd Yusoff Ishak Assessment of Municipal Solid Waste Generation at Administrative Building's Cafe in Universiti Putra Malaysia
ОТН	OP3	Ainul Mardhiah Mohd Nail*, Noor Hasniza Binti Md. Zin Proteomic analysis of bioactive peptide from different plant parts of <i>Phyllanthus niruri</i> (Dukung anak)
ОТН	OP4	Hassan I. Sheikh*, Akbar John, B., Solachuddin J.A. Ichwan, Zaleha, K. and Kamaruzzaman, Y. Critical review on in-vitro Amebocyte culture – A lesson learned from past

ОТН	OP5	Nor Shahida Kader Bashah*, Sudirman Sahid, Salina Sabudin and Shirin Ibrahim Effect of silica in calcium phosphate material for biomedical application
ОТН	OP6	Muhammad Taha Bennett* and Faez Sharif The effect of different methods and solvents on the extraction of polyphenols in ginger (Zingibier officinale)
ENV	EP1	Muhammad Muhammad Nmaya*, Mohammed Arif Agam, Nadiah Khaled, Jibrin Alhaji Yabagi and Muhammad Isa Kimpa Determination of heavy metals in the wild brackish pond of Desaru in Malaysia and its potential for oyster farming
ENV	EP2	Muhamad Aidilfitri Mohamad Roslan, Nur Azam Amirudin, Zaima Azira Zainal Abidin and Suhaila Mohd Omar* Isolation of bacteria from acidic Pekan peat swamp forest soil and their lignin degradation potential
ENV	EP3	Nurhazlin Ab Rahman*, Ahmed Jalal Khan Chowdhury and Zaima Azira Zainal Abidin Antibiotic resistant bacteria from sediment of coastal water of Pahang, Malaysia
ENV	EP4	Najwa Husna Sanusi*, Ing Chia Phang and Noor Faizul Hadry Nordin Isolation and identification of rhizopheric bacteria associated with lemongrass for bioremediation of dibenzofuran contaminated soils
ENV	EP5	Nurul Elyni Mat Shaari*, Zarina Zainudin and Noor Faizul Hadry Nordin Understanding of rhizospheric lemongrass-Staphylococcus succinus interactions for phytoremediation of dibenzofuran contaminated soil
ENV	EP6	Mohd Huzaimi bin Mohd Amin*, Ahmed Jalal Khan Chowdhury, Kamaruzzaman Yunus and Noor Faizul Hadry Nordin Spatial and temporal distribution of bacterial communities and heavy metals composition in sediments along Pahang river, Malaysia

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