



DAA11 HANDBOOK

11th SYMPOSIUM ON DISEASES IN ASIAN AQUACULTURE (DAA11)

23 AUGUST 2022

BCCK, KUCHING SARAWAK

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About this Handbook

Handbook of the 11th Symposium on Diseases in Asian Aquaculture (DAA11) 23rd – 26th August 2022 Kuching, Sarawak

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Disclaimer:

This volume is the pre-symposium compilation of abstracts. Although oral presentations were selected from submitted abstracts by three independent reviewers, the contents are not peer-reviewed and apart from lay-out changes, the contents have been printed as received from the submitting authors. Some abstracts also need extensive English editing. Please consult with the authors before using information contained in any of the abstracts. The Fish Health Section of the Asian Fisheries Society does not guarantee that this Handbook is without flaws and therefore disclaims any liability for any error, loss or other consequence which may arise from persons relying on the information in this publication. The symposium programme is correct of the time of the printing, however the organizers reserve the right to make changes where necessary.

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1. Selected papers from keynote speaker and participants will be published in Special Issue of Malaysian Fisheries Journal <http://fri.dof.gov.my/>

Contents

Greetings from Chairperson of Fish Health Section - AFS	1
Welcome speech from Chairman of the National Organizing Committee for DAA11	2
FHS-AFS Executive Committee	3
DAA11 Organizing Committees	4
Sponsors	7
Program at a Glance	16
Scientific Program Schedule	17
Abstracts	27
Session 1 – Biosecurity in Aquaculture	27
Plenary	28
Keynote	30
Oral Presentation	31
3-Minutes Presentation	35
Session 2 – Epidemiology (Parasitic, Bacterial & Viral Diseases)	40
Keynote	41
Oral Presentation	43
3-Minutes Presentation	47
Session 3 – Detection Method/Diagnostic (Parasitic, Bacterial & Viral Diseases)	57
Plenary	58
Keynote	59
Oral Presentation	61
3-Minutes Presentation	67
Session 4 – Prevention & Control Measures (Parasitic, Bacterial & Viral Diseases)	77
Keynote	78
Oral Presentation	79
3-Minutes Presentation	85
Session 5 – Trends in Fish Health Management	92
Keynote	93
Oral Presentation	94
3-Minutes Presentation	103
Session 6 – Trends in Shrimp Health Management	111
Keynote	112
Oral Presentation	113
3-Minutes Presentation Poster	120
ePoster	126
Company Profiles	159
Participant Directory	180



Greetings

Dear ladies and gentlemen,

On behalf of the Fish Health Section of the Asian Fisheries Society (FHS-AFS), I am pleased to welcome you to the 11th Symposium on Diseases in Asian Aquaculture (DAA11) Kuching, Sarawak. The early history of the FHS-AFS is closely linked with the Asian Fish Health Network (AFHN), which was initiated in 1985 with the support from the International Development Research Centre (IDRC), Canada. In 1989, the AFHN joined the Asian Fisheries Society (AFS) and the FHS was born as a formal section of the AFS. A year later, the FHS-AFS organized the 1st Symposium on Diseases in Asian Aquaculture (DAA1) in Bali, Indonesia.

What started in Bali in 1990 as a humble gathering has evolved as the biggest fish health event in Asia. Up until DAA10 in Bali in 2017, we managed to hold this symposium every 3 years for 27 years, which is impressive. To celebrate 30 years of the Symposium, we brought DAA11 to Malaysia, where the FHS-AFS was founded in 1989. DAA11 was initially planned to take place in 2020 but postponed to 2022 due to the Covid-19 pandemic. Due to travel restrictions associated with the pandemic, DAA 11 was organized as a virtual event.

DAA11 attracted 629 registered participants and 142 abstract submissions from 22 countries. With the theme of 'Land of Adventure: Exploring Aquatic Animal Health for Sustainable Aquaculture', DAA11 will cover wide ranges of aquatic animal health aspects including biosecurity in aquaculture, epidemiology, detection, prevention, and control of diseases in finfish, crustacean and shellfish. There are also sessions dedicated on trends in fish and shrimp health management. We hope this scientific programme will provide platforms for sharing knowledge, experience, and most importantly lessons learned of managing aquatic animal health in the region and beyond.

DAA11 is jointly organized by the FHS-AFS and the Malaysian Government. On behalf of the FHS-AFS, I would like to sincerely thank the Malaysian Government including the Sarawak Government, Ministry of Agriculture and Agro-Based Industry, and Department of Fisheries for their support and contributions to the organization of DAA11. This event will not be possible without the hard work of the DAA11 Technical Team of the National Organizing Committee. It is my duty to sincerely thank sponsors and exhibitors for their support to the event and to the Executive Committee and Senior Advisors of the FHS-AFS and the International Scientific Committee of DAA11 for their contributions to the development of a strong scientific programme. Last but not least, I would like to extend, my gratitude to the invited speakers and presenters for sharing their work at DAA11. I'm sure your talks will stimulate robust discussion and motivate the participants to further strengthen their networking in Asia and beyond. I hope all of you have a very productive symposium and look forward to seeing you in-person at DAA12 in 2025.

Best wishes,

Dr Agus Sunarto

Chairperson of the FHS-AFS



Welcome Message

Dear Colleague and Friends,

On behalf of the Organizing Committee, I welcome all to the first ever virtual symposium on Diseases in Asian Aquaculture (DAA). While we regret that the COVID pandemic prevented us from holding the symposium in Kuching, we are excited about the opportunities of holding an innovative virtual symposium. The 11th DAA symposium marked the starts of new approaches and strategies, where the current pandemics have reminded us of our interconnectedness, that our health, animal health, and the environment are intrinsically linked - highlighting the urgent need to increase collaboration at the national,

regional, and global levels to address the issue of disease transmission in aquatic ecosystems, zoonotic diseases, antimicrobials resistance as well as aquatic animal welfare, promoting integrated and system based approach to One Health concept.

The DAA11 virtual will includes 4 days of information sharing, intellectual discussions and networking with strategic virtual exhibitions and trade displays covering wide range of topics on aquatic animal health management, development, and innovations presented by internationally recognized experts and researchers from all over Asia Pacific region and around the world. The symposium also provides an excellent platform for international partners to establish and enhance research collaborations, as well as market opportunities for aquatic products and aquaculture technologies. There will be ample time for virtual networking during the Symposium.

The promotion of aquatic animal health management is not just for specialists and scientists but for everyone in the community including farmers with lived experience, aquatic resources managers, veterinarians, aquatic animal health professional, academics, educators, students, all related fisheries industry players, and the general public. Reaching new frontiers requires fresh vision and novel strategies. Producing the symposium online fits perfectly with these aims as it will allow is to keep registration fees to a minimum and reach a wider audience than a traditional conference can possibly include.

I truly appreciate and thank our co-organizing partners, the Fish Health Section of the Asian Fisheries Society (FHS-AFS) and the Ministry of Modernization of Agriculture, Native Land and Regional Development (MANRED); our collaborators especially the Marine Fishery Resources Development and Management Department of the Southeast Asian Fisheries Development Center (SEAFDEC MFRDMD), Universiti Putra Malaysia (UPM), Universiti Malaysia Terengganu (UMT), Universiti Malaysia Sarawak (UNIMAS), International Islamic University Malaysia (IIUM), WorldFish, Malaysia Fisheries Society (MFS) dan Aquaculture Asia Pacific (AAP); and our sponsors; for their technical and financial supports, that has contributed towards the success of DAA11. My sincere appreciation also goes out to all the experts and researchers (who will be participating in the DAA11 Symposium), for their roles in sharing vital and beneficial scientific information as well as valuable experiences on aquatic animal diseases and prevention strategies, contributing and enriching the scientific, public, and private communities. I hope everyone will use these opportunities to enhance and build their capacity towards sustainable, stable, and competitive aquaculture industries for food security and aquatic ecosystem sustainability.

The virtual symposium represents an opportunity for DAA11 to inspire the world with a perspective of hope on research, diagnostics, and services of aquatic animal health in Asian aquaculture. We are certain all of you find this symposium stimulating, rewarding and meaningful.

We are looking forward to warmly welcoming you to DAA11 Virtual

Haji Mohd Sufian Bin Sulaiman

Director General of Fisheries Malaysia

Chairman of the National Organizing Committee for DAA11

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Dr. Liang Yan (P.R. China)
Ms. Varinee Panyawachira (Thailand)

ePoster

Dr. Siow-Foong Chang (Singapore)
Dr. P.K. Pradhan (India)
Dr. Melba G. Bondad-Reantaso (Philippines/Italy)

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Mr. Mohd Faizal Harun (DOF)
Mr. Mazlan Othman (DOF)
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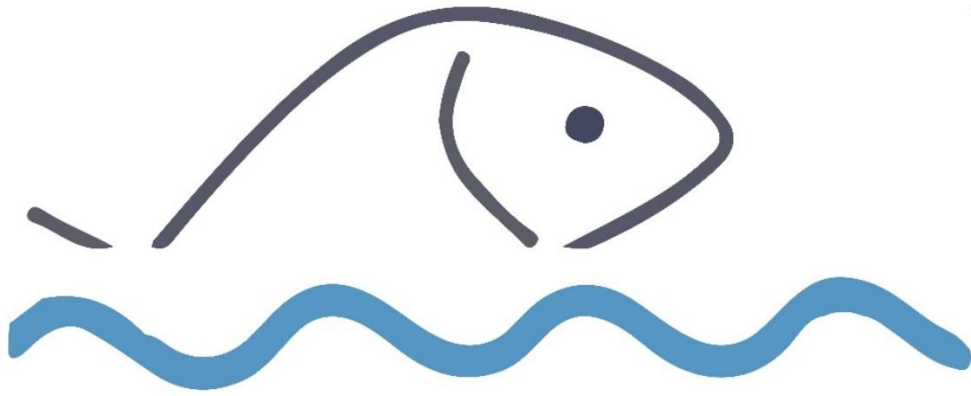
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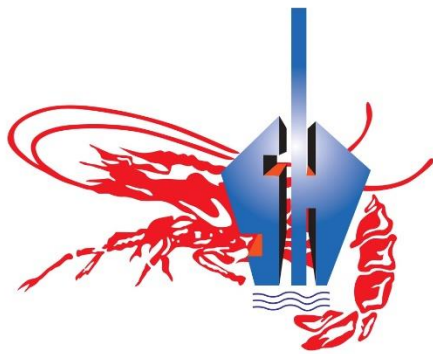
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Program at a Glance

23rd -26th August 2022



DATE	MALAYSIA TIME (MYT), UTC +8	PROGRAM	Mode
DAY 1 23 rd August (Tuesday)	08:00 - 09:45	Registration	Hybrid
	09:50 - 10:30	Opening Ceremony	Hybrid
	10:40 -11:10	Plenary I – Dr. Melba B. Reantaso	Hybrid
	11:30 -17:00	Farmers Day for Malaysian Farmer	Physical
	Session 1: Biosecurity in Aquaculture		
	11:10 - 11:40	Keynote 1 – Dr. Edgar Brun	Virtual
	11:40 - 12:40	Oral Presentation	Virtual
	12:40 - 13:10	3-Minute Presentation	Virtual
	Session 2: Epidemiology (Parasitic, Bacterial and Viral Diseases)		
	14:00 - 14:30	Keynote 2 – Prof. Dr. Kenton L.I. Morgan	Virtual
	14:30 - 15:30	Oral Presentation	Virtual
15:30 - 16:20	3-Minute Presentation	Virtual	
DAY 2 24 th August (Wednesday)	08:30 - 09:00	Plenary II – Dr. Rohana Subasinghe	Virtual
	Session 3: Detection Method/Diagnostic (Parasitic, Bacterial and Viral Diseases)		
	09:00 - 09:30	Keynote 3 – Prof. Karin Pittman	Virtual
	09:30 - 11:30	Oral Presentation	Virtual
	11:30- 12:00	3-Minute Presentation	Virtual
	Session 4: Prevention and Control Measures (Parasitic, Bacterial and Viral Diseases)		
	14:00 - 14:30	Keynote 4 – Dr. Huang Jie	Virtual
	14:30 - 15:45	Oral Presentation	Virtual
	15:45 - 16:00	3-Minute Presentation	Virtual
	16:00 – 16:30	Presentation of EoI to Host DAA12 in 2025	Virtual
DAY 3 25 th August (Thursday)	Session 5: Trends in Fish Health Management		
	09:30 - 10:10	Keynote 5 – Dr. Kua Beng Chu	Virtual
	10:10 - 15:00	Oral Presentation	Virtual
	15:30 - 16:00	3-Minute Presentation	Virtual
	16:00 – 19:00	The 12 th Triennial General Meeting of FHS-AFS (TGM12)	Virtual
DAY 4 26 th August (Friday)	Session 6: Trends in Shrimp Health Management		
	09:30 - 10:00	Keynote 6 – Prof. Chu-Fang Lo	Virtual
	10:00 - 12:15	Oral Presentation	Virtual
	14:45 - 15:25	3-Minute Presentation	Virtual
	15:25- 16:00	Presentation of upcoming DAA12	Virtual
	16:00 – 17:00	Awards & Closing Ceremony	Virtual

Scientific Programme Schedule

Plenary	Keynote	Oral Presentation	3-Minute Presentation
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DAY 1: 23 August 2022 (Tuesday)	
SESSION 1: BIOSECURITY IN AQUACULTURE	
08:00 - 09:50	Registration
09:50 – 10:30	Opening Ceremony
Moderator: Dr. Eduardo Leano (Philippines/Thailand)	
10:40 – 11:10	Plenary I: Drivers and pathways to disease emergence in aquaculture and possible solution <i>Melba G. Bondad-Reantaso</i>
Moderator: Dr. Venmathi Maran Balu Alagar (Malaysia)	
11:10 - 11:40	Keynote 1: Biosecurity and sustainability <i>Edgar Brun</i>
11:40 - 11:55	OP-01: Australia's new national aquatic animal disease reporting system <i>Yuko Hood, Joshua Allas, Max de Kantzow and David Gale</i>
11:55 - 12:10	OP-02: Diagnosis in a fish farmer's backpack <i>Jerome Delamare-Deboutteville, Suvra Das, Oleksandra Silayeva, Shaun Wilkinson, Fernando Cagua, Ha Thanh Dong, Saengchan Senapin and Andrew C Barnes</i>
12:10 - 12:25	OP-03: The threat of antimicrobial resistance and solutions in reducing antimicrobials use <i>Ikhsan Natrah, Sarmila Muthukrishnan, Norfarrah Mohamed Alipiah, Md Yasin Ina-Salwany, Chong Chou Min, Low Chen Fei and Nurliyana Muhammad</i>
12:25 - 12:40	OP-04: bioDOF-Map system, a web-based GIS application for mapping fisheries biosecurity activities in malaysia <i>Eleanor Daniella Lokman, Norsida Man and Suhaida Aini</i>
Moderator: Assoc. Prof. Dr. Mohammad Noor Amal Azmai (Malaysia)	
12:40 – 12:55	3MP-01: Occurrence, antibiotic resistance and plasmid profiling of <i>Vibrio</i> spp. isolated from cultured shrimps in Peninsular Malaysia <i>Wan Haifa Haryani Wan Omar, Mohd Zamri-Saad, Mohammad Noor Azmai Amal, Natrah Fatin Mohd Ikhsan and Md Yasin Ina-Salwany</i>

12:40 – 12:55	3MP-02: Fish kill events and harmful algae blooms in peninsular Malaysia waters <i>Roziawati Mohd Razali, Nurin Izzati Mustapa and Harman Muhd-Farouk</i>
	3MP-03: Presence of microplastics in fish parasites: a threat? <i>Najihah Mohamad, Kua Beng Chu, Rohaiza Asmini Yahya, Muhammad Syafiq Musa and Ku Kassim Ku Yaacob</i>
	3MP-04: Antimicrobial resistance surveillance from farmed aquatic foods in wet markets and antimicrobial use prevalence in Bangladesh's aquaculture <i>Shafiq Rheman, Md. Abir Hasan, Laura Khor, Chadag Vishnumurthy Mohan and Jerome Delamare-Deboutteville</i>
	3MP-05: An assessment on the emerging risks associated with aquaculture escapees: the Malaysian case studies <i>Haslawati Baharuddin, Padilah Bakar, Rimatulhana Ramly, Mohamad Sufiyan Salmi, Iftikhar Ahmad Abdul Rafi and Kua Beng Chu</i>
13:00-14:00	Lunch
SESSION 2: EPIDEMIOLOGY	
Moderator: Dr. P. K. Pradhan (India)	
14:00 - 14:30	Keynote 2: Investment, training, resources, rigor and speed a paradigm for aquatic epidemiology <i>Prof. Dr. Kenton L.I. Morgan</i>
14:30 - 14:45	OP-01: In <i>Litopenaeus vannamei</i> peritrophin regulates the pathogenesis of white spot disease and acute hepatopancreatic necrosis disease <i>Ramya Kumar</i>
14:45 - 15:00	OP-02: Description of a Fish Epidemiology and Health Economics (FEHE) survey tool for performance and risk factor assessment <i>Laura Khor</i>
15:00 - 15:15	OP-03: Molecular epidemiology of Megalocytivirus in Malaysian freshwater angelfish (<i>Pterophyllum scalare</i>) <i>Sandra Catherine Zainathan, Che Azarulzaman Che Johan, Muhd Danish Daniel Abdullah and Sharifah Noor Emilia Syed Jamil Fadaak</i>
15:15 - 15:30	OP-04: Characterisation of <i>Edwardsiella ictaluri</i> recovered from clinical disease outbreaks in <i>Pangasianodon hypophthalmus</i> farms in Vietnam over a twenty-year period <i>Christopher Payne, Kathryn Grace, Vo Hong Phuong, Le Hong Phuoc and Margaret Crumlis</i>

Moderator: Dr. Neeraj Sood (India)

15:30 -16:20	<p>3MP-01: Occurrences of <i>Vibrio</i> spp. in the samples of cockles (<i>Tegillarca granosa</i>) and Green Mussels (<i>Perna viridis</i>) cultured along West Coast of Johor <u>Azlina Apandi, Fadzilah Yusof, Mohd Lazim Mohd Saif, Azmi Rani and Mohd Farazi Jaafar</u></p>
	<p>3MP-02: TiLV: New threat to Malaysia's native fish species <u>Afzan Muntaziana Mohd Pazai, Fahmi Sudirwan, Shahidan Hashim, Zuraidah Roli, Munira Murni, Suphia Amiera, Mohd Syafiq Mohd Ridzwan and Azila Abdullah</u></p>
	<p>3MP-03: The surveillance of parasitic infestation on green mussels (<i>Perna viridis</i>) in several culture spots in West Coast Johor Water <u>Mohd Lazim Saif, Azmi Rani, Fadzilah Yusof, Azlina Apandi and Mohd Farazi Jaafar</u></p>
	<p>3MP-04: Characterisation of pathogenic <i>Aeromonas</i> species from diseased tilapia and catfish farmed in East Nusa Tenggara, Indonesia <u>Heri Kurniawan, Jimmy F. Turnbull, Andrew P. Desbois and Mags Crumlish</u></p>
	<p>3MP-05: Bacterial microbiota of freshwater prawn, <i>Macrobrachium rosenbergii</i> (de Man, 1879) cultured in cages and ponds in the Philippines <u>Ma-ann Camarin, Erlinda Cruz-Lacierda, Rolando Pakingking Jr., Rex Ferdinand Traifalgar, Nathaniel Añasco and Mark Lawrence</u></p>
	<p>3MP-06: Occurrence of Tilapia Lake Virus (TiLV) in tilapia and tinfoil barbs at wild and culture sites in Malaysia <u>Azila Abdullah, Afzan Muntaziana Mohd Pazai, Mohd Syafiq Mohammad Ridzuan, Munira Murni, Aina Nabila Abdul Rahman, Zuraidah Roli and Rimatulhana Ramly</u></p>
	<p>3MP-07: <i>In-vitro</i> antimicrobial activity of probiotics incorporated with micro feed against pathogenic <i>Vibrio parahaemolyticus</i> <u>Danial Iman, Fadhil Syukri, Siti Hajar Othman and Murni Karim</u></p>
	<p>3MP-08: Infectivity and genome persistence of Tilapia tilapinevirus in water samples <u>Jidapa Yamkasem, Tharinthon Prasartset, Puntanat Tattiyapong, Kwanrawee Sirikanchanad and Win Surachetpong</u></p>
	<p>3MP-09: Global seahorses diseases: A review <u>Marjorie Charam and Kua Beng Chu</u></p>
	<p>3MP-10: Genomes and virulence factors of novel <i>Pseudomonas koreensis</i> strain Isolated from aquaculture farm in Kuching, Sarawak, Malaysian Borneo <u>Cindy Jia Yung Kho, Melinda Mei Lin Lau and Hung Hui Chung</u></p>

DAY 2: 24 August 2022 (Wednesday)	
SESSION 3: DETECTION METHOD/DIAGNOSTIC (PARASITIC, BACTERIAL & VIRAL DISEASES)	
08:00 - 08:30	Registration
Moderator: Dr. Agus Sunarto (Indonesia/Australia)	
08:30 - 09:00	Plenary II: State of global aquaculture <i>Rohana Subasinghe</i>
Moderator: Dr. Yuko Hood (Australia)	
09:00 - 09:30	Keynote 3: Fish wear their immune system on the outside-what this means for aquaculture and ecology <i>Pittman Karin, Merkin Grigory, Okubamichael Mearge, Powell Mark, Andersen Linda and Carlo C. Lazado</i>
09:30 - 09:45	OP-01: Profile of protein isolated from mucus of infected <i>Oreochromis</i> spp <i>M. Faizal, M. Nur-Nazifah, M.R. Syafiq, G. Wan Norazlan, A. Azila and R. Rimatulhana</i>
09:45 - 10:00	OP-02: Rapid CRISPR-based platforms for detection of major pathogens in penaeid shrimp and fish <i>Thawatchai Chaijarasphong, Suthasinee Kanitchinda, Thanwarat Sukonta, Thanyawit Thammachai, Saengchan Senapin, Kallaya Sritunyalucksana, Pimkhuan Hannantanan, Jiraporn Srisala, Rungkarn Suebsing, Watcharachai Meemetta, Suwimon Taengphu and Mintra Kitthamarat</i>
10:00 - 10:30	Virtual Tea break
10:30 - 10:45	OP-03: Application of a specific antibody to localize Tilapia Lake Virus (TiLV) in fish tissues using immunohistochemistry <i>Puntanat Tattiyapong, Chutchai Piewbang, Somporn Techangamsuwan and Win Surachetpong</i>
10:45 - 11:00	OP-04: An intelligent protozoan white spot fish disease detection <i>Siti Naquiah Md Pauzi, Amiera Syazlin Md Azhar, Nor Hazlyna Binti Harun, Mohamad Ghozali Hassan, Noraini Yusoff and Kua Beng Chu</i>
11:00 - 11:15	OP-05: Gut metagenome analyses of healthy and diseased tilapia <i>Oreochromis niloticus</i> cultured in Bangladesh <i>Mohammad Shamsur Rahman, Nusrat Jahan Punom, Mst. Sabrina Akter, Md. Mostavi Enan Eshik, Shawon Ahmmed, Md Golam Rabbane and Mst. Khadiza Begum</i>
11:15 - 11:30	OP-06: Glucose and glutamine contribute to de novo nucleotide synthesis to support viral pathogenesis <i>Cong-Yan Chen, Der-Yen Lee, Shih-Shun Lin, Chun-Hung Liu and Han-Ching Wang</i>

Moderator: Dr. Ng Wing Keong (Malaysia)	
11:30 – 12:00	<p>3MP-01: Mass mortalities of golden pomfret (<i>Trichinotus blochii</i>) associated with oxygen crisis, multiple infections of parasites and <i>Vibriosis</i> at floating cages Pulau Aman, Penang <u>Padilah Bakar, Rimatulhana Ramly, Fahmi Sudirwan and Kua Beng Chu</u></p>
	<p>3MP-02: Experimental co-infection of Tilapia Lake Virus and <i>Streptococcus agalactiae</i> in red hybrid tilapia (<i>Oreochromis niloticus</i> × <i>O. mossambicus</i>) model <u>Lukman Basri, Mohammad Noor Amal Azmai, Mohd Zamri Saad, Ina Salwany Md. Yassin, Annas Salleh and Yasmin Abd Rahman</u></p>
	<p>3MP-03: Investigation of culture condition inducing viable but non-culturable (VBNC) state in <i>Nocardia seriolae</i> <u>Akito Hayashi, Megumi Matsumoto, Motohiko Sano and Goshi Kato</u></p>
	<p>3MP-04: Mucosal responses in giant freshwater prawn, <i>Macrobrachium rosenbergii</i> fed with diet containing natural feed premix <u>Imelda Rantty, Siti Rokhaiya Biollah, Karin Pittman, Kho Li Yung and Siti Hawa Mohamad Ali</u></p>
	<p>3MP-05: Experimental challenges studies on pathogenicity of <i>Edwardsiella ictaluri</i> in striped catfish, <i>Pangasianodon hypophthalmus</i> (Sauvage) <u>Amira Syahidah Nordin, Mubarak Muhyuddin Noor Zainy, Muhammad Ansarullah Mohd Subari and Nur Nazifah Mansor</u></p>
	<p>3MP-06: Pathogenicity and LD₅₀ of <i>Pangasius nasutus</i> against <i>Edwardsiella ictaluri</i> through injection method <u>Syafiq Syauqi and Nur Nazifah Mansor</u></p>
	<p>3MP-07: <i>In-vivo</i> expression of Acute Hepatopancreatic Necrosis Disease related virulence genes in <i>Vibrio parahaemolyticus</i> and <i>V. harveyi</i> and its virulence towards <i>Penaeus vannamei</i> (Boone, 1931) <u>Sarmila Muthukrishnan, Mohamed Shariff, Ina-Salwany M. Y, Fatimah Md Yusoff and I. Natrah</u></p>
	<p>3MP-08: Phenotypic characterization of <i>Edwardsiella ictaluri</i> Isolated from cage-cultured <i>Pangasianodon hypophthalmus</i> <u>Rimatulhana Ramly, Nur Erina Syahira Abd Talib, Amira Syahidah Nordin and Nur Nazifah Mansor</u></p>
	<p>3MP-09: PvRaf knockdown using RNA interference increased survival of <i>Litopenaeus vannamei</i> infected with White Spot Syndrome Virus <u>Joseph Carlo V. VergeJ and Mary Beth B. Maningas</u></p>
	<p>3MP-10: <i>In-vitro</i> evaluation of potential probiotics strain in biofilm formation <u>Sow Cyn Shieng, Fatimah Md Yusoff, Chong Chou Min, Jasmin M.Y and Murni Karim</u></p>
12:00 - 14:00	Lunch

DAY 2: 24 August 2022 (Wednesday)	
SESSION 4: PREVENTION & CONTROL MEASURES (PARASITIC, BACTERIAL & VIRAL DISEASES)	
Moderator: Dr. Sandra Catherine Zainathan (Malaysia)	
14:00 - 14:30	Keynote 4: Emerging aquatic animal diseases and response actions to their emergencies in Asia and the Pacific Region <i>Jie Huang</i>
14:30 - 14:45	OP-01: Towards heuristic design of vaccines: Transforming transposon insertion sequencing (TIS) for identification of novel <i>in-vivo</i> virulence factors in fish pathogen <i>Qiyao Wang</i>
14:45 - 15:00	OP-02: Application of natural products: an effective approach to control fish parasites in aquaculture <i>B. A. Venmathi Maran</i>
15:00 - 15:15	OP-03: In silico selection and characterization of DNA aptamers against <i>Vibrio parahaemolyticus</i> LuxP periplasmic receptor protein <i>Low Chen Fei, Siti Aisyah Razali, Nur Afiqah Md Yusof, Azyyati Mohd. Padzil, Syarul Nataqain Baharum, Nurul Hanun Ahmad Raston, Chong Chou Min, Natrah Fatin Mohd Ikhsan, Sarmila A/P Muthu Krishnan and Magdalena Lenny Situmorang</i>
15:15 - 15:30	OP-04: Potential practical application of a live attenuated vaccine against herpesviral hematopoietic necrosis of goldfish <i>Hiroaki Saito, Shungo Minami, Manami Yuguchi, Aiko Shitara, Hidehiro Kondo, Goshi Kato and Motohiko Sano</i>
15:30 - 15:45	OP-05: Active and passive immune responses and protection of Nile tilapia (<i>Oreochromis niloticus</i>) immunized with Tilapia Lake Virus inactivated vaccines <i>Thao Thu Mai, Pattanapon Kayansamruaj, Suwimon Taengphu, Chayanit Soontara, Pattarawit Kerddee, Dinh-Hung Nguyen, Saengchan Senapin, Janina Z. Costa, Jorge del-Pozo, Kim D. Thompson, Channarong Rodkhum and Ha Thanh Dongi</i>
Moderator: Dr. Chang Siow Foong (Singapore)	
15:45 – 16:30	3MP-01: Organic acid profiles of three potential probiotics from whiteleg shrimp, <i>Litopenaeus vannamei</i> <i>Jikon Alvion J. Denwinner, Ang Chun Yao, Annita Yong Seok Kian, Lim Leong Seng, Sujjat Al-Azad, Francis Yong and Mohammad Tamrin Mohamad Lal</i>
	3MP-02: Field assessments of oral vibrio vaccine indicate the potential for protection against Vibriosis in hybrid grouper, <i>Epinephelus fuscoguttatus</i> × <i>Epinephelus lanceolatus</i> <i>Aslah Mohamad, Md Shirajum Monir, Mohd Zamri Saad, Mohammad Noor Amal Azmai, Nurhidayu Al-saarie and Ina-Salwany Md Yasin</i>
	3MP-03: Field efficacy of a feed-based inactivated <i>Vibrio harveyi</i> vaccine against vibriosis in cage-cultured asian seabass, <i>Lates calcarifer</i>

15:45 – 16:30	<i>Zahaludin Amir Danial, Aslah Mohamad, Mohd Zamri Saad, Mohammad Noor Amal Azmai, Annas Salleh and Ina-Salwany Md Yasin</i>
	3MP-04: In-vitro antimicrobial activity of plant extracts against fish pathogenic bacteria <i>Siti Hawa Mohamad Ali, Imelda R., Kho LY., Siti Rokhaiy B. and David Y.</i>
	3MP-05: Control of Aeromonas sp infection in nursery stage of Pangasius nasutus (Bleeker, 1863) through Bio-encapsulation of Herbal Extract; SirehMax in Live Feed <i>Iftikhar Ahmad A. R, Hanan M. Y., M. Zudaidy J. and Nik Haiha N. Y</i>
	3MP-06: Assessment of inhibitory properties of potential probiotics isolated from Aeromonas hydrophilla and Streptococcus agalactiae <i>Shafiq Johar</i>
	3MP-07: Ultrafiltration membrane technology for virus mitigation control strategy in indoor shrimp farming system <i>Norhafiza Ilyana Yatim, Diyana Kamarudin, N. Ali, S.C. Zainathan and S.N.K. Addis</i>

DAY 3: 25 August 2022 (Thursday)	
SESSION 5: TRENDS IN FISH HEALTH MANAGEMENT	
09:00 - 09:30	Registration
Moderator: Dr. Supraneer Chinabut (Thailand)	
09:30 - 10:00	Keynote 5: Malaysian experiences: Environment-friendly alternatives to chemicals in aquatic animal health management <i>Kua Beng Chu, Padilah Bakar, Ahmad Baihaqi Othman, Rohaiza Asmini Yahya and Wan Norhana Md. Noordin</i>
10:00 - 10:15	OP-01: IgY as immunoprophylaxis in aquaculture <i>Chou Min Chong, Phek Har Chua, Mohd Shafiq Mohd Nor, Nur Syahirah Yahya and Natrah Fatin Mohd Ikhsan</i>
10:15 - 10:30	OP-02: The effects of oral feed-based vaccination against vibriosis on gut microbiome of Asian seabass <i>Jumria Sutra, Amalia Mohd Hashim, Mohd Termizi Yusof, Nurhidayu Al Saari, Ina Salwany Md Yusof and Mohammad Noor Amal Azmai</i>
10:30 – 11:00	Virtual Tea break
11:00 - 11:15	OP-03: Ectoparasites recovered from whole cage freshwater treatment on cultured marine fish disease outbreak in floating cages <i>Leong Tak Seng</i>

11:15 - 11:30	OP-04: The prospect of using aptamers and digital aptasensors for real-time surveillance of diseases in aquaculture <i>Tang Kok Mun</i>
11:30 - 11:45	OP-05: Zoonotic potential of Group B Streptococcus in aquaculture <i>Snehashish Snehashish, Ina Salwany Md Yasin, Syafinaz Amin Nordin and Mohammad Noor Amal Azmai</i>
11:45 - 12:00	OP-06: Phytobiotic-based additive for consistently improved gut integrity and health across species <i>Ruth Garcia Gomez, M. M. Isern Subich and W. G. Nuez Ortinc</i>
12:00 – 12:15	OP-07: Refolded recombinant major capsid protein (MCP) from Infectious Spleen and Kidney Necrosis Virus (ISKNV) effectively stimulates serum specific antibody and immune related genes response in Nile tilapia (<i>Oreochromis niloticus</i>) <i>Sarocho Jitrakorn, Boonyalit Throngnumchai, Triwit Rattanarojpong and Vanvimon Saksmerprome</i>
12:15 - 14:00	Lunch
14:00 - 14:15	OP-08: Effects of <i>Piper betle</i> extract supplementation diet as a natural antibiotic growth promoter (NAGP) to kelah (<i>Tor tambroides</i>) <i>Hanan Mohd Yusof, Ahmad Baihaqi Othman, Nik Haiha Nik Yusoff, Muhd Zudaidy Jaapar, Azila Abdullah, M Firdaus Nawawi and Nur Nazifah Mansor</i>
14:15 - 14:30	OP-09: In-vitro responses of peritoneal macrophages of marine red hybrid tilapia (<i>Oreochromis spp.</i>) model to vibriosis: A comparative study between vaccinated and non-vaccinated fish <i>Tilusha Manchanayake, Ina Salwany Md. Yassin, Mohammad Noor Amal Azmai, M. Zamri Saad, Mohd Firdaus Nawawi and Annas Salleh</i>
Moderator: Dr. Andy Shinn (United Kingdom/Thailand)	
14:30 – 15:15	3MP-01: The Effect of Different Concentration of Probiotics (Lacto-sacc) Mixtures on Growth Performance and Feed Utilization of Empurau (<i>Tor tambroides</i>) Fingerlings <i>Sing Ying Chua, Roslianah Asdari and Mohammad Bodrul Munir</i>
	3MP-02: The effect of commercial cinnamon essential oil (EOCIN) against bacterial infection in farmed red snapper (<i>Lutjanus argentimaculatus</i>) <i>Noor Hanis Abu Halim, Padilah Bakar, Rohaiza Asmini Yahya, Nurhidayati Ahmad Sobri, Wan Rozana Wan Ahmad and Kua Beng Chu</i>
	3MP-03: The Management of Reared Tiger Grouper (<i>Epinephel us fuscoguttatus</i>) Infected with Marine Leech (<i>Zeylanicobdella arugamensis</i>) <i>Fadzilah Yusof, Azmi Rani, Mohd Lazim Saif Azlina Apanidi and Mohd Farazi Jaafar</i>
	3MP-04: Preliminary study of water quality in relation to benthic organism under aquaculture cages situated in Rambungan River, Lundu <i>Kho Li Yung, Imelda R, Siti Hawa MA, David Y and Siti Rokhaiya B</i>
	3MP-05: Dietary lacto-sacc improved growth performance and basic haematological parameters in empurau (<i>Tor tambroides</i>) fries reared in the aquaponics system

	<i>Mohammad Bodrul Munir, Sharifah Lia Farliana Wan Alias and Roslianah Asdari</i>
14:30 – 15:15	3MP-06: Field evaluation of palm oil adjuvanted feed-based streptococcosis vaccine efficacy in red hybrid tilapia <i>Mohd Syafiq Mohammad Ridzuan, Azila Abdullah, Mohd Firdaus Nawawi, Norazzida Ramli and Hanan Mohd Yusof</i>
	3MP-07: Disinfection of rotifer, <i>Brachionus plicatilis</i> leading to bacteria-free populations using SirehMAX™ solution <i>Nur Fatin Afifah Osman Manah, Mohd Salleh Hasan, Nur Atikah Azmi, Shaharah Mohd Idris, Azila Abdullah and Nur Nazifah Mansor</i>
	3MP-08: Development of acquired immune system in striped catfish <i>Pangasianodon hypophthalmus</i> <i>Dung Nguyen Ngoc, Oanh Dang Thi Hoang, Motohiko Sano and Goshi Kato</i>

DAY 4: 26 August 2022 (Friday)	
SESSION 6: TRENDS IN SHRIMP HEALTH MANAGEMENT	
09:00 - 09:30	Registration
Moderator: Prof. Dr. Kallaya Sritunyalucksana (Thailand)	
09:30 - 10:00	Keynote 6: The quorum sensing (QS) system modulates virulence of <i>Vibrio parahaemolyticus</i> AHPND by regulating the expression of the pirAvp/pirBvp genes through AphBvp <i>Chu-Fang Lo, Shin-Jen Lin and Hao-Ching Wang</i>
10:00 - 10:15	OP-01: <i>Piper betle</i> L. leaf extracts inhibit quorum sensing of shrimp pathogen <i>Vibrio harveyi</i> and protect <i>Penaeus vannamei</i> postlarvae against bacterial infection <i>John Paul Matthew D. Guzman, Pattanan Yatip, Chumporn Soowannayan and Mary Beth B. Maningas</i>
10:15 - 10:30	OP-02: Involvement of white spot syndrome virus viral proteins in modulating shrimp glycolysis <i>Yen Siong Ng, Saengchan Senapin, Pakkukul Sangsuriya and Han-Ching Wang</i>
10:30 - 10:45	OP-03: Shrimp GDH may be regulated by SIRT4 during WSSV replication <i>Tan Yu Kent and Han-Ching Wang</i>
10:45 – 11:15	Virtual Tea break
11:15 - 11:30	OP-04: WSSV-induced metabolic reprogramming in shrimp hemocytes to benefit its re0lication <i>Han-Ching Wang</i>

11:30 - 11:45	OP-05: Quorum quenching activity in microalgae and its associated bacteria: an alternative antimicrobial therapeutics <i>Sarmila Muthukrishnan, Natrah Fatin Mohd Ikhsan and Nur Ain Yahya</i>
11:45 - 12:00	OP-06: Microbiome signatures from stocking to emergency harvest in Thailand <i>Penaeus vannamei</i> pond experienced Yellow Head Virus outbreak <i>Anuphap Prachumwat, Wiraya Eamsaard, Piyanuch Wechprasit, Apirak Hoonlor, Diana Minardi, Grant D. Stentiford and Kallaya Sritunyalucksana</i>
12:00 - 12:15	OP-07: Dietary montmorillonite clay protected <i>Penaeus vannamei</i> challenged with <i>Vibrio parahaemolyticus</i> (AHPND) and modulated stomach microbiota of shrimp Survivors <i>Wing-Keong Ng, Mei-Ling Mong and Abdul Azim Abdul Hamid</i>
12:15 - 14:45	Lunch
Moderator: Dr. Chadag Vishnumurthy Mohan (India/Malaysia)	
14:45 – 15:25	3MP-01: The effectiveness of probiotic Used in super intensive culture of white shrimp (<i>Penaeus vannamei</i>) for its health and water quality management <i>Azmi Rani, Fadzilah Yusof, Mohd Lazim Saif Azlina Apandi and Mohd Farazi Jaafar</i>
	3MP-02: Preliminary study on the effect of moist formulated feed on health status of disease infected <i>Penaeus monodon</i> broodstock <i>Mohammed Suhaimie Abd Manaf, Mohd Firdaus Azmi, Nor Aida Suzana Abdul Rahman and Rosnani Yaakub</i>
	3MP-03: Blue-green algae and assessment of microcystin in shrimp aquaculture farms of Sarawak <i>Lim Mui Hua</i>
	3MP-04: Scientometrics of climate change and shrimp disease: An overview <i>Mohamad N. Azra, Mohd Ihwan Zakariah, Mohd Iqbal Mohd Noor and Mazlan Abd Ghaffar</i>
	3MP-05: Microsporidian parasite, <i>Enterocytozoon hepatopenaei</i> at early stage of culture of whiteleg shrimps (<i>Peneaus vannamei</i>) in West Malaysia <i>Rohaiza Asmini Yahya, Padilah Bakar, Wan Muhammad Hazim Wan Sajiri, Nur Samihah Mazlan, Nur Ashikin Arbi and Kua Beng Chu</i>
	3MP-06: Unveiling the potential of medicinal plants in combating shrimp Acute Hepatopancreatic Necrosis Disease (AHPND) disease <i>Tan Wen Chian, Nisha Krishnan, Loh Jiun Yan, Baskaran Gunasekaran and Hok Chai Yam</i>
15:25 - 16:00	Presentation of upcoming DAA12



DAY 1: 23 August 2022 (Tuesday)
Session 1: Biosecurity in Aquaculture

Effects of *Piper betle* extract supplementation diet as a natural antibiotic growth promoter (NAGP) to kelah (*Tor tambroides*)

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The present study was conducted to evaluate the potential of *Piper betle* extract as an herbal product as a feed additive and a natural antibiotic growth promoter (NAGP) toward kelah (*Tor* sp.) on antimicrobial activity and growth performance. In this study, for antimicrobial activity, several concentration levels of *Piper betle* extract were tested to observe the optimum dosage for bacterial inactivation of *Aeromonas hydrophila* obtained from the kelah specimen. Then, in the growth study, two treatment methods were used, which were once a month (S1) and fortnightly (S2) feedings of a diet treated with 100 ppm *Piper betle* extract, with a non-treated *Piper betle* extract diet serving as a control (C). All treatments were conducted in duplicate and the fish were stocked at 10 fish m⁻² in 3MT tanks. Fishes were fed ad libitum, twice daily. The results showed the optimal dosage for *Piper betle* extract was identified at 100 ppm with a significant difference ($P > 0.05$) in the size of the *Aeromonas hydrophila* bacterial inhibitory zone, with diameters of 18.7 ± 0.6 mm. While at 182 days of growth study, the results show that the best growth performance of kelah according to body weight gain (BWG) was treatment S2 with 131.9 ± 9.1 %, followed by S1 and control at 104.8 ± 10.2 % and 84.2 ± 9.5 %, with a significant difference ($P < 0.05$). While the S2 treatment significantly showed the best feed conversion ratio (FCR) compared to the S1 and control treatments, with 3.57 ± 0.17 , 4.27 ± 1.13 , and 5.02 ± 0.49 , respectively. In overall, there was no significant difference in survival rate among all treatments in this study. Thus, the results suggest that *Piper betle* can be considered as a NAGP in the diet at the optimum dose of 100 ppm, with fortnightly application as the best feeding regime for kelah culture.

Keywords: *Piper betle*, kelah (*Tor* sp.), natural antibiotic growth promoter (NAGP), antibacterial, growth performance

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Sea Horse Corporation Sdn Bhd was incorporated in 1978 in Kuching, Sarawak, Malaysia. The company owns a whole supply and value chain from shrimp hatchery to grow-out and processing to export to ensure that our products are wholesome and safe to consume. We bring live-material shrimps from our own ponds directly to our factory and process them in a short period of time to ensure good freshness and high quality standard at reasonable price.



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Borneo Eco Fish Sdn Bhd was incorporated in 2009 and commenced operation in 2017 as one of leading Cage Aquaculture and producer of Red Tilapia Fish (*Oreochromis Niloticus*) at Batang Ai, Lubok Antu in Sarawak. The cage farm is located at Telok Kaong, Batang Ai Hydro Lake which provides an ideal environment for cage culture of Tilapia Fish, some 250km into the interior and sits on the border with Kalimantan, Indonesia. BEF began operating with 2000 units of cages farm then later increase its capacity by installing new 2000 units cages to make up 4,000 units of cages to cater for growing demand of the tilapia fish in the local and export markets.



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Contact Person: Mrs. Mazura Binti Abdul Aziz

ZGSB is a combination of a group of individuals with over 22 years of experience in various fields of background especially PUBLISHING, PRINTING & supply of CORPORATE GIFTS including branded merchandise. ZGSB also has strategic business partners in the field of MEDIA TECHNOLOGY such as Artificial Intelligence (AI) & Augmented Reality (AR). We also get direct supply support from Malaysia's leading factories for corporate gift and branded merchandise. ZGSB will FOCUS on helping to provide friendly services such as government agencies, GLCs and SME Entrepreneurs especially to get commercial value quality and trendy prints & corporate gifts, within the stipulated period.



Blue Archipelago Berhad
No. 3, Jalan Perindustrian Puchong
Bandar Metro Puchong, 47160 Puchong Selangor

Tel: Main: [+603-8074 7555](tel:+603-80747555) | [+60 12-273 3483](tel:+6012-2733483)
Email: marketing@bluearchipelago.com
Web: <http://www.bluearchipelago.com>
Contact Person: Mr. Wu Wai Leong

Pelagos is a brand of products from Blue Archipelago which can be assured of its highest quality and uncompromising dedication to produce safe and sustainable seafood. The winning edge of our Pelagos product: 4-star product traceability, 100% Hormone and Antibiotic FREE, Seawater farmed for tastier shrimps, quick frozen for freshness, accorded with HACCP, BAP and EU Certifications that meet stringent global standards. Email us at marketing@bluearchipelago.com for more information.



QS Tech Sdn. Bhd.
InnoHub Putra Science Park UPM
UPM Jalan Maklumat,
43400 Serdang, Selangor

Tel: Main:+60 14-3376414
Email: qstech@gmail.com
Contact Person: Ms. Maya Liyana Hamzah

QS Tech Sdn Bhd is funded by the International Development Research Center (IDRC, Canada) together with Department of Health and Social (DHSC, UK) and Innohub UPM in 2021. This company aims to develop additives for disease control through quorum quenching technology. This technology inhibits bacterial virulence through specific signal quenching that hinder the interactions between the pathogenic bacteria. The use of the QUENCH product as an alternative to antibiotics can minimize the dependency on antibiotics in shrimp aquaculture and slow the emergence of multidrug-resistant (MDR) bacteria.



S.R.I H.I.J.R.A.H (M) S.D.N. B.H.D

Sri Hijrah (M) Sdn. Bhd.
70-3-51, D Plaza Mall
Bayan Baru, Penang, 11900 Pulau Pinang

Tel: Main:+60 10-401 0000
Email: srihijrah@yahoo.com
Contact Person: Mr. Izrol

We are a wholly owned bumiputra private company with main core business specialized in supplying Scientific Equipment, Scientific Apparatus, Laboratory Equipment, Laboratory Furniture, Medical Disposables for School of Science, Education Equipment, Marine Equipment and Office Stationery and Equipment.



Caya Primer Sains Sdn. Bhd.
Suite 3.1, Level 3, UmXcelerate
University of Malaya, 50603, Kuala Lumpur

Tel: Main: +60 10-401 0000
Email: intanshazlin57@gmail.com | info@cayaprimersains.com
Contact Person: Ms. Intan Shazlin Binti Tajul Ashikin

CAYA PRIMER SAINS SDN BHD was incorporated on 1 April 2011. The scope of our company is research, development, services and manufacture of molecular diagnostic detection kits. We are dedicated to providing quality and accurate diagnostic, proper and particular services, technical and management services to our customers. We will strive to implement a long term relationship with our clients, based on safety, quality, timely service and an expectation of their needs.



F1 Aquaculture Sdn Bhd
No. 15, Lorong Enggang
Taman Keramat 54200, Kuala Lumpur

Tel: Main: +60 13-602 5577
Email: f1aqua@itcare.com.my
Contact Person: Mr. Tan Jia Hoe

Our company is a hatchery that produces marine fish seeds such as grouper, red fish, sea bream and others. A modern indoor seeding system is used to produce healthy and quality fish seeds. With the practice of the traceability system and the myGAP scheme, F1 Aquaculture Sdn. Bhd. thrives to produce fish that is safe to eat.



Malaysian Frozen Foods Processors Association
4572, Jalan Chain Ferry
12100 Butterworth, Pulau Pinang

Tel: Main:+60 12-4221178
Email: mffpa@ymail.com
Contact Person: Jessie Lim

TANGAWIRA SDN. BHD.

Tangawira Sdn Bhd
Jalan Sungai Karang, 5km Off Jalan Sikuati
89058 Kudat, Sabah, Malaysia

Tel: Main:+60 16-588 6616
Email: tangawira@outlook.com
Contact Person: Lee Chin Fah

TANGAWIRA SDN. Ltd. is a factory that processes fish fertilizer or FISHMEAL that was established in 1998 in Kudat district, Sabah. The factory is located at Jalan Sungai Karang, 5km off Jalan Sikuati, 89058 Kudat, Sabah. The factory has more than 75 employees and is equipped with effective facilities. The factory operates 24 hours a day and has two shifts. The establishment of this company is to produce fishmeal as supplementary food for farm animals such as chicken, fish, cattle and so on. In addition, this additional feed can also provide guaranteed health to farm animals and farmers can produce quality livestock feed.



Hong Cheng Seafood Supplies Sdn. Bhd.
Lot 7297, Jalan Perusahaan 2
Kawasan Perindustrian Parit Buntar
34200, Parit Buntar, Perak

Tel: Main: +60 5-716 6899 | +60 12-578 4899
Email: hongchengseafood@hotmail.com
Web: <https://www.hongcheng-seafood.com>
Contact Person: Khor Chiew Yong

Hong Cheng is an excellent seafood supplier. It first opened its doors in December 2008 and is run and co-owned by Chiew Peng and Chiew Yong. In 2008, "Hong Cheng seafood supplies sdn. bhd" was officially founded in a fish village in Penang. We started with an operation space not bigger than half a basketball court. However, we are determined to grow and become the best seafood supplier company, selling the best quality seafood products.



MSAVE MARKETING SDN BHD

Msave Marketing Sdn. Bhd.
17-G, Jalan LP 7/4F
Taman Lestari Perdana
43300, Seri Kembangan, Selangor

Tel: Main: +60 3-80803635 | +60 11-65217400
Email: msavemarketing.com.my
Contact Person: Umi Haizan Binti Abd Karim

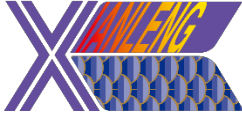
Package - Shrimp Sponsors Company Profiles



Dragon Taste Seafood Export & Import Sdn. Bhd.
No.73, Jalan Selat Selatan 7/KS05,
Taman Perindustrian Sobena Jaya,
42000 Pandamaran,
Port Klang, Selangor, Malaysia

Tel: Main:+60 12-705 3691
Email: comm@xianleng.com.my
Web site: <http://www.dtsgroup.com/>
Contact Person: Lee Yee Jing

SeaNutri is an innovative brand created under Dragon Taste Seafood Wholesale & Retail Sdn Bhd (DTSWR). DTSWR is the first company established by DTS Group, and served as an important foundation for the group. With the creation of SeaNutri, it marks an important development milestone for DTS. At the starting point, wholesale distribution plays the main distribution activities for SeaNutri. It is distributed widely to hotels, restaurants, hospitals, high-end eateries, etc. Retail distribution started actively in recent years. It penetrates into the market by reaching out to the end consumer with its various choices of products from fresh and frozen fish, Ready to Cook, Ready to Eat, Ready to Heat, etc. Over the years, SeaNutri has become a recognised premium fish brand in the hospitality industry. It is the most trusted brand among 5-star hotel chefs



Xian Leng Trading Sdn. Bhd.
No. 35, Jalan Penaja 3
8300 Batu Pahat, Johor

Tel: Main:+60 12-705 3691
Email: comm@xianleng.com.my
Web site: xianleng.com.my
Contact Person: Kuan Kai Seng

Xian Leng Trading Sdn. Bhd. was established in 1989 which is engaged in commercial captive breeding of the Asian Arowana, Stingray, Goldfishes, Cichlids, Anabantids fishes. The ornamental fish trading center is located at Batu Pahat, Johor, engages in the retailing of both local and exotic aquarium fishes as well as the related paraphernalia such as aquarium and accessories, fish feed and medication.



Gertak Sanggol Hatchery Sdn Bhd
94-A, Mukim 9, Jalan Gertak Sanggul
11920 Teluk Kumbar, Penang

Tel: Main: +60 13-686 3535
Email: comm@xianleng.com.my
Web site: xianleng.com.my
Contact Person: Kuan Kai Seng

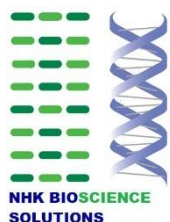
Gertak Sanggol Hatchery Sdn Bhd (GSHSB) was established and has been operating since 18 years ago in 2004 until now and the hatchery is located at Pulau Pinang, Pahang, and Sabah. Our company's main activities are supplying nauplii and post larvae for both P. Vannamei shrimp and P. Monodon shrimp throughout Peninsular Malaysia including Sabah and Sarawak. GSHSB was recognized and awarded MyGap and FQC certificates by the Department of Fishery Malaysia (DOF) since 2013 until now.



QL Fishmeal Sdn. Bhd.
Lot 164, 2647 & 3314,
Jalan Tepi Sungai
36400, Hutan Melintang, Perak

Tel: Main: +60 16-230 9648
Email: Inquiry@qlfishmeal.com
Web site: <https://www.qlfishmeal.com/>
Contact Person: Ms. Lim Siew Lian

QL Fishmeal Sdn. Bhd. has been established since 1991 to provide high quality fishmeal by utilizing "Steam-Drying" technology for both the local & international markets. We are located near a fishing village, named Hutan Melintang, which enables us to obtain fresh raw fish directly from the fishing vessel every day. Our fishmeal is freshly made from 100% whole fish and bones/offal from processed fish, with a trace amount of natural sea creatures. High freshness of fishmeal is maintained by completely processed the in-coming raw material within 24 hours of upon receiving.



NHK Bioscience solution Sdn. Bhd.
27-A, Lebuhraya Gelugor
Georgetown 11600 Penang

Tel: Main: +60 17-336 2192 | 03-7987 8218
Email: geehean@nhkbioscience.com
Web site: <https://www.nhkbioscience.com>
Contact Person: Kuan Kai Seng

NHK Bioscience Solutions Sdn. Bhd., located in Kuala Lumpur, Malaysia, was established in June 2003 and commenced operations in August 2003 as a Life Science company supplying products and services to the scientific, (bio)medical and biotechnology communities engaged in molecular research and/or diagnostics. To the communities whom we serve, we pay careful attention to our customers' needs and endeavour to meet them by offering the latest cost-effective technological solutions. We aim to achieve a high degree of customer satisfaction and develop trust through offering quality solutions matched by excellent technical support and exceptional service.



Hai Leng Enterprise Sdn. Bhd.

Sedco Light Industrial Estate, Phase 1,
Lot 1, 2, 10 & 11, Mile 3, North Road,
90000 Sandakan, Sabah

Tel: Main: +60 89-211 713 | +60 89-217 779

Email: hailengsdk@gmail.com

Contact Person: Kuan Kai Seng

"Hai Leng Enterprise Sdn Bhd has been a HACCP certified seafood company since 1984. It is one of the leading seafood processing companies in Sandakan, Sabah, Malaysia. Due to the advantage of its natural environment, the ocean surrounding Sandakan, Sabah is one of the places in Malaysia producing the best quality of seafood. We also produce and supply our own farm-raised aquaculture shrimps with great quality in freshness, taste, and color appearance."



Greater Yield, Faster Growth

Syaqua Sd. Bhd.

No.19 Jalan Perigi Nenas 7/2 Ks 11,
Kwsn Perindustrian Pulau Indah

Tel: Main:+60 14-955 0146

Email: gabreal.j@syaqua.com

Web site: www.syaqua.com

Contact Person: Gabreal Johnny Gabil

SyAqua is the global leader in genetics and early nutrition for aquaculture. We aim to create optimal balance genetics focusing on speed of growth and good survival rate. With SyAqua's Balanced Line, we use the latest technologies in genomic selection, quantitative genetics, and breeding science to significantly improve the genetic response to ever-challenging aquaculture climates and environments. This can enlarge the population of successful shrimp farmers benefiting from SyAqua's total solutions with greater yield and faster growth.



*"Innovative Technological Solutions for
Our Spatial World"*

Spatialworks Sdn. Bhd.
Blok C-T.01-U.04, No.1 Jalan P8D
62250, Putrajaya

Tel: Main:+60 3-8881 0962
Email: admin@spatialworks.com.my
Web site: <https://www.spatialworks.com.my>
Contact Person: Cik Nurnajmi Binti Ibrahim

Spatialworks Sdn. Bhd. is a technology driven GIS-IT and environmental consultancy company, provides a complete spectrum of geographic information system (GIS) and technology driven environmental solutions to both public and private sector clients. Spatialworks Sdn Bhd is a client-focused company where it is our commitment to provide cost-effective solutions for the clients, continuously seeking for the best and the latest state-of-the-art technological solutions for the betterment of our environment, and to support them from beginning to the end in their efforts. Our staff is a group of highly focussed and dedicated professionals who have been working together with proven commitment to our clients in delivering above expectation services and products.



Uni-President

Uni-President (M) Sdn. Bhd.
3A-13, Blok A, Damansara Intan,
No 1, Jalan SS 20/27
47400, Damansara, Selangor

Tel: Main:+60 16-916 1001
Email: uni.president.malaysia@gmail.com
Web site: <https://uni-president.com.vn>
Contact Person: Mr. Benny Leng

Uni-President Enterprises Corp (UPEC), one of the biggest food groups in Taiwan and the top 10 players in China & Asia. UPEC has over 100 subsidiaries and affiliates worldwide. We are committed to providing the finest products and quality services that are best suited for customers. Good quality, Good credibility, Good services and Fair price are the quintessential management philosophy of Uni-President, and it has become the cornerstone of Uni-President Enterprises Corp. Uni-President Enterprises Corporation embodies the management philosophy of integrity, Diligence, Innovation, and Progress to the Future.



Shrimp Improvement System PTE
16 New Industrial Road 05-03/04
Hudson Technocentre Singapore
(536204)

Tel: Main: +65 9781 9454
Email: Edmund_Koh@shrimpimprovement.com.sg
Web site: <http://www.shrimpimprovement.com/>
Contact Person: Koh Wei Lun Edmund

Founded in 1998, Shrimp Improvement Systems (SIS) is the world's leading provider of shrimp broodstock. SIS produces genetically improved and Specific Pathogen Free *P vannamei* shrimp broodstock. Our breeding facilities are currently located in Florida, Hawaii. We are also the major supplier of the best-performing broodstock to external shrimp farming operations throughout Asia and the Americas. As the premier shrimp breeding company, SIS is dedicated to improving the performance of aquaculture stocks worldwide.



Global Goodway Sdn. Bhd.
125 R & S, Desa Tanjung
Jalan Tanjung Tokong
10470, Georgetown, Penang

Tel: Main: +60 16-400 5316
Email: mike.saw84@gmail.com
Web site: <https://www.globalaquaculture.asia/>
Contact Person: Michael Saw Zng Hoz

Global Goodway specializes in Tiger Prawn Farming, with our high volume production methodology and continuous improvements, we are able to consistently produce Tiger Prawns of the highest Quality. Since 2019, we've also ventured into IoT with the objective of automating key processes and providing management with continuous data. Our latest R&D project, LuFloc, a super-intensive system with minimal water exchange has proven to be a success and it is already in the production stage.

Package - Seabass Sponsors Company Profiles



Biogenes Technologies Sdn. Bhd.
Block 2, Infrastructure University Kuala Lumpur,
43000 Kajang, Selangor

Tel: Main:+60 12 6656 360
Email: contact@biogenestech.com
Web site: www.biogenestech.com
Contact Person: Tang Kok Mun

Biogenes develops and manufactures digital-based diagnostics products for diseases in human and animal healthcare, and testing solutions in food safety as well as pollution monitoring. Our app-based solutions allows doctors and farmers alike to upload their test results together with time and location data into a cloud-based server for real-time and remote access from anywhere in this world. Biogenes collaborates closely with research institutions and universities to jointly develop these solutions as well as conduct field trials to validate our technologies. Our collaborators include, among others - MARDI, DVS and FRI.



Freecap Resource Sdn. Bhd.
Lot T-5, Lumut Port Industrial Park,
Kampong Acheh Mukim Lumut,
32000 Sitiawan, Perak, Malaysia

Tel: Main:+60 12-616 8911 | +60 5-691 0850
Email: bw.ng@platinum2u.com
Web site:<https://pcfgroup.com.my>
Contact Person: Dr. Ng Bee Wah

Freecap Resource Sdn. Bhd. (FRSB) was founded in association with PCF group, a group with more than 30 years old involvement in Malaysia sea catch seafood industry. FRSB is a one-stop seafood supply chain premise certified with HACCP, GMP, MeSTI and HALAL. We are specializing in crustacean products (*Penaeus monodon*) to fulfill the global market needs as well as the local market. With the sufficient capital, professional experience and strong scientific support team giving FRSB a renewed future in producing sustainable seafood to secure food security.



Helping the world *thrive*

Cargill Feed Sdn. Bhd.
Lot 55711, Dry Bulk Terminal, Jalan Mawar
West Port, 42009 Klang, Selangor

Tel: Main: +60 16-410 3234
Email: Sankari_Ranjapan@cargill.com
Web site: <https://www.cargill.com.my>
Contact Person: Mrs. Sankari A/P Ranjapan

Cargill has been conducting business in Malaysia since 1978. Today, our businesses include vegetable oil refining and production of value-added products, grain and oilseeds distribution, animal nutrition, sales and marketing of starches, sweeteners and texturizers as well as cocoa and chocolate products. Headquartered in Kuala Lumpur, Cargill currently employs about 740 people in 7 locations countrywide.



PENAWAR INTERNATIONAL

Penawar International
No. 32-1, Jalan jade Hill Utama
Commerce Village
Jade Hills, 43000 Kajang, Selangor

Tel: Main: +60 3-8740 0799 | 13-368 9502
Email: salespenawar@gmail.com
Contact Person: Mr. Joyhanis Bin Mohd Jamil

PENAWAR INTERNATIONAL SDN BHD was established in January 2020 with the Malaysian Companies Commission bearing registration number 1356487-P. Penawar International Sdn Bhd is registered in Selangor, Malaysia and is 100% bumiputera owned. Penawar International Sdn Bhd is actively involved in Exhibitions, Events, Galleries, and Museums. This company has been heavily involved in business based on "Event Management". This includes organizing parties, event management, cultural performances, dinner parties, organizing sports and family days. Through this business activity, the company has established many business networks with audio services, catering, event tools such as canopies, interior decorations and others.



Fandi Ads Resources
No. 17-2f Jalan Setia Perdana BA U13/BA Setia Alam
Seksyen U13
40170 Shah Alam Selangor Darul Ehsan

Tel: Main: +60 12-066 0878
Email: fandiadsevent@gmail.com
Contact Person: Mr. Affandi bin Daud

We transform even the simplest of ideas into innovative and well-crafted products that fit the needs of our clients and exceed their expectations. We offer outstanding value to our clients by providing the highest quality services at very reasonable investment. Our aim is to build a loyal patronage by providing our clients with quality, reliable end products and as well as efficient, friendly customer service. @FANDI ADS.... we constantly strive to challenge the conventional methodology in current trends in order to deliver the best and effective solutions for a given project.



Canvio Sd. Bhd.
No. 22-1, Jalan Setia Utama AU, U13/AU,
Seksyen U13, Setia Alam,
40170 Shah Alam, Selangor

Tel: Main: [+603 3341 4392](tel:+60333414392) | [+6014-3314780](tel:+60143314780)
Email: info@canvio.net
Web site: <https://www.canvio.net/>
Contact Person: Stephenie Poh (stephenie@canvio.net)

Canvio Sdn Bhd is a comprehensive solution provider for the research and diagnostic market in Malaysia. Canvio is led by a group of dynamic professionals and over the years, we have assisted countless clients in achieving their research and diagnostic outcomes while encouraging the adoption of molecular biology and cell therapy in a forward direction. We consciously increase technology awareness by organizing numerous seminars, trainings and workshops on molecular science and its applications to various customer segments; in academia, in clinical diagnostics and also to the industry.

Package - Oyster Sponsors Company Profiles



Kaizai Resources
No. 7, Bangunan MDY, Jalan Pantai Murni
Gurun 06900, Kedah

Tel: Main: +60 12-411 8337
Email: kaizai.kay@gmail.com
Contact Person: Mr. Md. Khir Johari Bin Md. Yusoff

KAIZAI RESOURCES ada sebuah syarikat yang melibatkan diri didalam industri Peralatan Sainifik, Penyelidikan, Pharmaceutical dan Hospital. Di tubuhkan pada 30hb. Disember. 2008. KAIZAI RESOURCES telah menyahut saranan yang dibuat oleh Kerajaan Malaysia untuk bersama –sama memajukan negara didalam bidang tersebut. KAIZAI RESOURCES adalah syarikat yang dimiliki oleh 100% Bumiputera.



UD Technology Sdn. Bhd.
Plot 80, Tingkat Perusahaan 6
Kawasan Perusahaan Prai 4
13600, Penang Malaysia

Tel: Main: +60 4-501 2231 | +60 13-786 4191
Email: udtechnology@gmail.com
Web: ud-technology@gmail.com
Contact Person: Mr. Patrick Teoh

Founded in 2008, UD Technology Sdn Bhd specializes in laboratory equipment and analytical supplies. With our high quality products, competitive pricing, excellent technical and application support contributed to UD Technology Sdn Bhd, quick growth and the territory was expanded through the global network. We can offer a wide range of products to meet your chromatography needs from sample preparation to analysis in a variety of fields e.g. pharmaceuticals, foods, drugs, chemicals, petrochemicals, environmental, natural products, biotechnology, etc. We are also very proud of our full technical or application support and guarantee for customer satisfaction. We are willing to customize our products to meet any specific requirement of our customers.

KAULUAN SDN. BHD.

Kauluan Sdn. Bhd.
F-2-15, Blok F, Tingkat 2,
Lorong Inanam Kapital 5, Inanam Kapital,
88450 Kota Kinabalu, Sabah

Tel Main: +60 17-823 3218
Email: kauluansb@yahoo.com
Contact Person: Mr. Alex siaw

Kauluan Sdn Bhd is a certified fishmeal manufacturer based in Kota Kinabalu, Sabah. We produce high quality fishmeal with crude protein more than 60% for the international market. We are dedicated to maintaining high quality and freshness of our products by processing the raw fish from fishing boats immediately upon receipt daily. We also send our fishmeal samples for our in-house lab and external lab for tests to ensure standards and requirements are met.



Jeit Yit Hardware & Household
No. 15, Jalan Deluxe, Pusat Perdagangan Deluxe
Dengkil, 43800 Selangor

Tel Main: +60 12-360 0052
Email: jeityeit@yahoo.com
Web: <https://jeityeithardwarehousehold.business.site>
Contact Person: Lee Chin Seng

We are selling a variety of quality hardware tools including Seamaster and Kansai paints, Black Hammer safety shoes, duplicate keys and car immobilizer, a variety of cutting meat knives and so on... Do contact us for any queries.



Australia

Yuko Hood

Bangladesh

Mohammad Shamsur Rahman
Shafiq Rheman

Belgium

Alokesh Kumar Ghosh

Brunei

Abdul Salam Wafi Haji Md. Diah
Muhammad Abdul Hakeem Julaihi

China

Qiyao Wang

China Taiwan

Omkar Vijay Byadgi
Ramya Kumar
Cong-Yan Chen
Yen Siong Ng

Yu Kent Tan
Grace Chu-Fang Lo
Han-Ching Wang

France

Jerome Delamare-Deboutteville

Greece

Mr. Gerald N Misol Jr

India

Neeraj Sood
Syed Syariq Nazir Qadiri
Pravata Pradhan

Indonesia

Agus Sunarto
Rajeev Kumar Jha
Nugroho Wiratama

Dewi Syahidah
Winarti Achmad Sarmin Djainal

Iran

Reza Heydari

Italy

Melba G. Bondad-Reantaso

Japan

Motohiko Sano
Akito Hayashi
Hiroaki Saito

Malaysia

Abdul Hafis Abdul Rashid
Amirah Fatimah Md Nordin
Aznaliza Yahya
Ching San Tan

Azmar Hana Elliany Azhar
Mushidi Hassan
Mustafa Asmuni
Nata Bakar

Azahari Othman
Adnan Hussain
Chew Poh Chiang
Ahmad Daud Om
Ahmad Syafiq Ahmad Nasir
Andrea Lim Li Li
Azhar Hamzah
Azila Abdullah
Chadag Vishnumurthy Mohan
Chen Fei Low
Chiun Khang Yong
Erniyta Osman
Hajar Rastegari
Haslawati Baharuddin
Hidayah Manan
Hirzahida Mohd Padil (record not found)
Hock Tieng Chuo
Hon Jung Liew
Hung-Hui Chung
Ina- Salwany Md Yasir
Jackie Peter
Jeffry Ling
Jerome Delamare-Deboutteville
Julia Hwei Zhong Moh
Kua Beng-Chu
Maisarah Ab Samad
Mohamad Nor Azra Md Adib
Mohammad Munir
Mohammad Noor Amal Azmai
Murni Karim
Natrah Fatin Mohd Ikhsan
Naziah Muntil
Ng Wing-Keong
Noor Affizah
Nor Azman Kasan
Norhafiza Ilyana Yatim
Nur Athirah Mohd Jazman
Nur Fatimah Abd Halid
Nur Nazifah Mansor
Padilah Bakar
Reza Heydari
Rimatulhana Ramly
Roslianah Asdari
Roslina Ahmad Nawawi
Samsur Mohamad
Sandra Catherine Zainathan
Shaharah Mohd Idris
Shuhadah Mustapha
Siti Norita Mohamad
Sylmie Al-Harir
Tak Seng Leong
Tilusha Manchnayake
Venmathi Maran Balu Alagar
Putri Nurul Sikira Mustaffa
Aida Nabilla
Waiho Khor
Wan Norhana Md Noordin
Mohd Firdaus Naw
Abdul Hafiz Mohd. Zaki
Abdul Hakim
Abdul Halim Yousof
Abdul Rahman Ahmad Pauzi

Nazri Ishak
Ng Kooi tiam
Pang Anak Nyukang
Nik Ahmad Tarmizi Nik Ismail
Nik Nazli Effendy Ramli
Nordiskandar Nor Tajudin
Nummeran Mohd Nordin
Nurassyaima Kamari
Nurdin Shafie
Osman Hamzah
Perceval Conder
Raja Yana Meleessa Raja haron Arashid
Rizman Zulkarnaen Suardi
Rizwan Nordin
Roslan Abu Hasan
Roslee Dela Cerna
Rosli Ismail
Rudy Zaidi
Ruzaidi Mamat
Ryanto Saifuddin
Saadon Kasmon
Sabda Safiee
Saiful Azuan Jamalludin
Shafiq Rheman
Shahidan Hashim
Shahrul Naim Abd. Razak
Shahrul Nizam Baharuddin
Shallehuddin Abdul Taib
Shamsol Muhammad
Simen Mudin
Snehashish Snehashish
Sow Cyn Shieng
Sufian Ahmad
Sukri Deris
Syafiq Johar
Syafiq Syauqi
Syed Amirrudin Syed Suhaini
Syed Mohamad Azim Syed Mahiyuddin
Syed Yusuf Wan Drahman
Teoh Pik Neng
Tn. Mohd. Hakimi Tn. Mood
Wan Amizan Wan Ahmad
Yau Chang Siew
Zahaludin Amir Danial
Zaidil Abdilla Ahmad Salehuddin
Zainal Hanapi
Zakaria Che Din
Noraini Md Nor
Adillah Ibrahim
Afzan Muntaziana Mohd Pazai
Ainul Riza Abu Seman
Aminah bt. Ignasius
Amy Aineda Omar
Amy Noor Zaina Amir Hamzah
Anis Mazidah Abd Samad
Aqilah Mohd. Yusof
Aranja Fong
Azimah Jumatli
Azlina Apandi
Azura bt. Markus
Azwa Abdul Hamid
Chai Pui Shan

Abdul Razak Man
Abdul Razak Hamzah
Abdullah bin Jaafar

Abu Bakar Al-Siddiq Abd Salam
Abu Bakar Tumin
Abu Yazid Yusnizab Muhammad
Affan Nasruddin Roshidi
Ahmad Fauzi Mohd Khosim
Ahmad Helmi Hj. Chik
Ahmad Najmi Nasruddin
Ahmad Redzuan Ramli
Ahmad Rohaimae Abdullah
Ahmad Sabri Katiman
Ahmad Saifullah Mohammad
Aiman Zulkilee
Albert Apollo Chan
Alistair Patrick
Alvin Aldreen
Alvin Clinton Anak Suder
Amadi Tubah
Amar Fakar Adzuan Roslan
Amer Shahjehan Hassan
Amir Hamzah Ramli
Arifin Drahan
Arthur Besther Sujang
Aslah Mohamad
Asrani Abdullah
Azaharie Anuar
Azizul Abu Hasan
Azmi Rani
Azri Md Yusoff
Azrim Sulong
Bakri Saad
Basri Abd. Rashid
Basri Man
Benedict Iber
Brendan Tan Heng Wee
Buniamin bin Kiprawi
Che Shahidi Che Mod
Che Zulkifli Che Ismail
Chin Han Kiat
Chrysostom anak Thomas
Danial Iman Haris Nor Azma
David Yambun
Dokanaer Kasto Anak Muning
Dzulfikkar Baitul Ma'mur
Fairol Tajuddin Suhaili
Faizal Ibrahim Suhaili
Fakhruddin Bokhari
George Bobby
Hafiz Syahri
Mohd Sofi Yaacob
Hanan Mohd Yusof
Hasbullah bin Harun
Hasyaruddin Abdul Halim
Haziq Aiman
Hilal Abd Aziz
Darhan Nawawi
Zainudin Abd. Wahab
Iftikhar Ahmad Abdul Rafi
Irfan Hakimi

Cindy Kho Jia Yung
Dayang Zafirah Abang Jashmady
Doreen Wee Siew Leen
Emylin Badut
Erin Tan
Fadzilah Yusof
Faizah Nor Mohamed
Faridah Zulkefly
Haliza Sulaiman
Hanisah Azmi
Haryati Abd. Wahab
Hasaniah Ahmad Kamalluddin
Hasnisa Abdul Hamid
Hazreen Nita Mohd Khalid
Hemalatha Raja Sekaran
Hidaya Dmulliany Mohd Sidek
Iffah Nadhirah
Intan Nurlemsha Baharom
Jafrizah bt. Abd. Razak
Kamisa Ahmad
Keni Anak Ngijwol
Khaitrul Ediana Mohd Tahir
Khazlita Adzim
Kho Li Yung
Lim Ai Gaik
Liyana Ramli
Liza Long
Lourdemary George
Mariam Marip
Maznah Yusoff
Munirah Zainol Abidin
Muslihah Abdul Rahaman
Najihah Mohamad
Bakri bin Miswan
Noor Amira bt. Muslim
Noor Asma bt. Mohammad
Noor Hasmayana bt. Yahaya
Noor Ikhwanie Zainal
Noor Suhailis Zelani
Nor Asnisawati bt. Yusof
Nor Azlina Abdul Rahman
Nor Haida Ishak
Nor Khalilah bt. Zainuddin
Noor Mahya Yusof
Nor Mastura Hasan
Noraisah Zainuddin
Noraishah bt. Hashim
Noraisyah bt. Abu Bakar
Norarziah Abdullah@Aziz
Norashikin Anjur (record not found)
Norashikin Daliyana
Norasmah Mantali
Norhabina Abd. Aris
Noridayu Alias
Norma Said
Normadiha Mat Nor
Nur Amirah Nazirah Jasemi
Nur Aqilah Mohd Salim
Nur Ashikin Arbi
Nur Erna Liyana Adam
Nur Fadhilah Zainul Mustaffa
Nur Fatin Afifah Osman Manah

Irwan Paiman
J. Denwinner Jikon
Jackson Clive Jusak
Jamil Musel
Jidy Joseph
Johari Tim
Ka Hong Tee
Kaharudin Md. Salleh
Kamarul Anwar Mohamed Zabri
Kasim Tawe
Kok Mun Tang
Kon Yeu Hooi
Liew Vui Kien
Lindy Enggong
Lukman Basri
Luther Moguup John
Mamat Amin Abd. Rahman
Marzie Ryn Romin
Marzuki Morad
Mohamad Azlan Amran
Mohamad Fitri Arris
Mohamad Ikraf Mohamad Sharif
Mohamad Iskandar Ishak
Mohamad Nazri Puasa
Mohamad Sani Thalib
Mohamad Sufiyan Salmi
Mohammad Hafiz Hassan
Mohammed Roshaziat Mustaffa
Mohammed Suhaimee Abd. Manaf
Mohammad Kamruzzaman Hossain
Mohd Armia Mohd Salleh
Mohd Asmadi Alawi
Mohd Asraf Said Azman
Mohd Azhar Mohd Zin
Mohd Azrul Mahmud
Mohd Fazhan Mohd Hanafiah
Mohd Firdaus Ahmad Pauzi
Mohd Firdaus Azmi
Mohd Ghazali A Manap
Mohd Hariz Ab Halim
Mohd Hazrul Muhammad
Mohd Lazim Mohd Saif
Mohd Maliku Seman
Mohd Nizam Ismail
Mohd Nor Azman Ayub
Mohd Nor Isyam
Mohd Nur Aminullah Abu Bakar
Mohd Ridzuan Mohamad Mokhtar
Mohd Samsul Rohizad Maidin
Mohd Shafiq
Mohd Syafiq Mohammad Ridzuan
Mohd Syapul Othman
Mohd Yazreen Syahmie Yusoff
Mohd. Akmal Ali
Mohd. Akmal M. Kamel
Mohd. Amirul Airi Pauzi
Mohd. Arif Syakir Rosid
Mohd. Asfarizal Masmok
Mohd. Azhar Jusoh
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Nur Najmi Basyeer Abdul Karim
Nur Shuhada Ariff
Nur Zafirah Abdul Hamid
Nurashiqin Sallih Udin
Nurfadhlina Chan Mahadie Chan
Nurhidayati Ahmad Sobri
Nurhuda Ibrahim
Nurul Aqilah Che Wan
Nurul Aziati Ab. Aziz
Nurul Farhanis Syatila Kamaruzaman
Nurul Najiha Sallehudin
Nurul Nassita Lias
Nurul Salma Adenan
Nusrah Alifah Ahmad
Ong See Ling
Pang Shek Qin
Radhuhaida Ramli
Rathi Sai Muniandy
Raziyani Ibrahim
Rohana Shapiin
Roshazia Aini Abu Bakar
Roshilawati Bidin
Rosmawati Ghazali
Rosnah Mah Hasan
Rozana Johari
Roza Mohd. Idris
Roziawati Mohd Razali
Saadiyah Ibrahim
Ummi Rodiah Abd Aziz
Santhana Dass A/L Irudaiam
Shamila Zainol
Siti Arbaiyah Bokhri
Siti Asiah Awang
Siti Hasshura Hashim
Siti Hawa Mohamad Ali
Siti Norasiah Darahman
Siti Norjannah Johari
Siti Qhairun Nisa Rahman
Siti Rokhaiya Biollah
Siti Sutina bt. Omar
Sufiah Hashim
Sugania Vijayan
Sumawati Amad Bugis
Suriati Muhamad
Syarifah Shafura Wan Abdul Molok
Vaani Muniandy
Wan Haifa Haryani Wan Omar
Wendy Ferrina Tarry
Wong Yien Ping
Yeo Moi Eim
Zawati Awang
Zeti Hafiza Zakaria
Zul Asyraf bin Mohd. Jamri
Zuraidah Roli
Ainul Yasmin Md Yusoff
Amatul Samahah Md. Ali
Amira Hanani Azali@Sazali
Amira Syahidah Nordin
Amirah Abdul
Arbania Ali
Christina John

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Mohd. Fauzi Salehon	Dayang Syahreeny Abang Mustafa
Mohd. Fazlan Abdul Ghani	Eleanor Daniella Lokman
Mohd. Fazli Long	Goh Ann Jie
Mohd. Husaini Rosli	Imelda Rantty
Mohd. JohariA. Latiff	Intan Ashikin
Mohd. Nasir Muhamad	Jumria Sutra
Mohd. Nazuri Rudin Jali	June Moh Hwei Yieng
Mohd. Nor Effendi bin Abd. Aziz	Kelly Teh
Mohd. Redhvan bin Arif	Kumari Geetha Muniandy
Mohd. Riduan bin Adnan	Laura Khor
Mohd. Rozhan bin Zakaria	Lim Mui Hua
Mohd. Sayuti bin Ismail	Lizawati bt. Mohamed
Mohd. Shafiq Abu Bakar	Marjorie Charam
Mohd. Sharifuddin Abdul Manan	Masazurah A. Rahim
Mohd. Shubli bin Md. Saad	Melinda Lau
Mohd. Shukri bin Yusof	Melissa Wong
Mohd. Sukri bin Jusoh	Noor Faizah Ismail
Mohd. Syafiq bin Manan	Noor Hanis Abu Halim
Mohd. Syairazi Che Man	Noorul Azliana Jamaludin
Mohd. Taufiq bin Md. Nordin	Noradiana Noran
Mohd. Yusof bin Mohd. Yasin	NorFatmahwati Yakup
Mohd. Zuraire bin Ab. Rani	Nur Amalin Nadia Mat Nasir
Muhaffiz Hamid	Nur Anissa Ainnina Daud
Muhamad Izzuan Razali	Nuraida Zulkifli
Muhamad Noor Zainal Abidin	Rabi Atun Abdullah (record not found)
Muhamad Nor Lamzahu Ismail	Rizmanisha Jasmin
Muhamad Yusof Nor Jasman	Rohaiza Asmini Yahya
Muhamad Zamri Abdul Murad	Sarmila Muthukrishnan
Muhammad Afiq Muhaimin Mohd Ashhar	Sarmiza Saperi
Muhammad Aliff Iqbal Abdul Hisam	Shaaleni Pandian Muruthy
Muhammad Amirul Razak	Sharifah Lia Farliana binti Wan Alias
Muhammad Amirul Siddiq Abd Rashid	Siti Naquiah Md Pauzi
Muhammad Anas Razali	Siti Nurul Annisa Temrin
Muhammad Asyraf Abd Latip	Sridevi Devadas
Muhammad Danial bin Abdullah	Stephenie Kawi
Muhammad Fadzil Haron	Syamsuria Abdul Latip
Muhammad Faizal Mohd	Umang Jabu
Muhammad Farouk Harman	Wen Chian Tan
Muhammad Fathullah Ruslan	Zarina Zainuddin
Muhammad Firdaus Ahmad Zamri	Nor Aida Suzana Abdul Rahman
Muhammad Hanaffi Ayob	Norazila Jelani
Muhammad Haziq	Nur Amalina Mohd Razikin
Muhammad Hazizi Ismail	Nur Simaa Ismail
Muhammad Helmi Mohamad	Nuramirah Abdul Manaf
Muhammad Izham Szali	Nurhidayati Ahmad Sobri
Muhammad Izzat Kamaruzaman	Nurul Nadwa Abdul Fatah
Muhammad Na'im Syafiq Othman	Meisam Tabatabaei
Muhammad Nur Ashry Bassari	Su Shiung Lam
Muhammad Safwan bin Othman	Yik Sung Yeong
Muhammad Safwan Khairul Asri	Rohani Mustafa
Muhammad Saufi Ahmad Khairuddin	Rosmaria Abu Darim
Muhammad Syafiq Izzuddin Abdul Hadi	Azizul Fariha Ghazali
Muhammad Thaqif Mohamad Bakri	Siti Nabila Mohd Sharif
Muhd. Ariff bin Abdullah	Hamidah Zainal
Muhd. Sharir bin Sha'arani	Fazlan Abu Bakar
Mazniza Othman	Nor Aida Suzana Abdul Rahman
Noor Azean	Intan Syazlin
Anuar Deraman	Haslizan Abdul Latif
YM Ku Kassim Ku Yaacob	Aiman Zulkiflee
Husaini Rosli	Mohd Zamri Mohamed Zin
Mohamad Hafiz Mushidi Shakori	Amirah Fatimah Md Nordin

Riduan Riduan
Mohamad N. Azra

Mohd. Hafizi Wan Hussin

Norway

Edgar Brun
Polyana Ferreira Da Silva

Karin Pittman

Phillipines

Lorenz Hans Reyes
Ma-ann Camarin
Mary Nia Santos
Jeryl Belle Rafanan

Joseph Carlo Vergel
John Paul Matthew Guzman
Sonia Somga

Republic of Korea

Olumide Olowe

Singapore

Jaglarz Anita
Markus Schrittwieser
Panqin Cai
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Siow Foong Chang
Zuridah Merican

Eng Yan Jie
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Anuphap Prachumwat
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Jie Huang
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**THANK
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