



WEDNESDAY, July 3

FRESHWATER AQUACULTURE

Wednesday, July 3 13:50 - 17:20 Crystal 5
 Chairs: Jean-Yves Mevel, Denni D. Indradjaya

- 13:50** **Abubakar Umar Muhammad**, Nur Adeela Yasid, Hassan Mohd Daud, Mohd Yunus Abd Shukor
 BEHAVIORAL CHANGES AND GILL HISTOPATHOLOGICAL ALTERATIONS OF RED HYBRID TILAPIA *Oreochromis* sp. EXPOSED TO GLYPHOSATE HERBICIDE
- 14:10** **A R Amalin-Sofea**, Nur Nazifah Mansor
 ESTABLISHMENT OF DISEASE: PATHOGENICITY, LD50 AND CLINICAL SIGNS OF MARINE TILAPIA AGAINST *Vibrio parahaemolyticus*
- 14:30** **Irfan Hakimi Roslan**, Nur Nazifah Mansor, Mohd Firdaus Nawawi, Azila Abdullah, Hazreen Nita Mohd Khalid
 EFFECT OF LOW TEMPERATURE ON PATHOGENICITY AND TCID50 OF *Oreochromis* spp. AGAINST BETANODAVIRUS INFECTION
- 14:50** **Mary Jessa Bell Pagapulan**, Rex Ferdinand Traifalgar
 GROWTH PERFORMANCE OF VARIOUS STRAINS OF SALINE TOLERANT TILAPIA REARED IN COASTAL SALINE PLASTIC-LINED PONDS
- 15:10** **Widya Puspitasari**, Atri Triana, Ari Prakoso
 REVIEW OF GROWTH AND SURVIVAL RATE OF SALINE TILAPIA WITH DIFFERENT INITIAL STOCKING WEIGHT
- 15:30** **BREAK**

- 16:00 Fredson Huervana**, Kelee Ira Nodque, Nantong Cedric Jay, Rex Ferdinand Traifalgar, Rizza Mae Guyapale
OPTIMIZING STOCKING DENSITIES FOR NURSERY CAGE CULTURE OF TROPICAL ANGUILLID EEL *Anguilla marmorata* IN PHILIPPINE BRACKISHWATER PONDS
- 16:20 Kelee Ira Nodque**, Fredson Huervana, Cedric Jay Nantong, Rex Ferdinand Traifalgar
DIETARY TRANSITION OF TROPICAL ANGUILLID EEL *Anguilla marmorata* LARVAE FROM FISH MEAT TO FISH MEAL BASED FORMULATED FEED: A PRELIMINARY EVALUATION
- 16:40 Cedric Jay Nantong**, Fredson Huervana, Kelee Ira Nodque, Rizza Mae Guyapale, Rex Ferdinand Traifalgar
EVALUATING THE DIETARY TRANSITION OF TROPICAL ANGUILLID EEL *Anguilla marmorata* ELVER FROM DOUGH TO CRUMBLE DIETS
- 17:00 Hanis Abd Mohmin**, Ching Fui Fui, Senoo Shigeharu
EFFECTS OF HORMONAL TREATMENTS ON TESTIS DEVELOPMENT AND SPERM QUALITY OF HATCHERY CULTURED MALE EELS *Anguilla bicolor*

SEA CUCUMBERS AND SEA URCHINS

Wednesday, July 3 13:50 - 17:20 Diamond 5

Chairs: Anabelle Dece, A. Espadero, Mulyanto

- 13:50 Wilfredo Uy**, Anabelle Dece Espadero, Hanzel Honghong
GROWTH PERFORMANCE OF THE SANDFISH *Holothuria scabra* (JAEGER 1833) IN A COMMUNITY-MANAGED NURSERY SYSTEM IN NORTHERN MINDANAO, PHILIPPINES
- 14:10 Olivier Josh Caasi**, Glaiza Ibañez, Marie Antonette Meñez
EARLY RELEASE OF JUVENILE SANDFISH *Holothuria scabra* IN OCEAN NURSERY PENS
- 14:30 Jay R. Gorospe**, Paul C. Southgate
GROWTH AND SURVIVAL OF SANDFISH *Holothuria scabra* REARED IN OCEAN AND ADVANCED NURSERY PEN CULTURE PRODUCTION SYSTEMS: EXPERIENCES OF SEA CUCUMBER FARMERS FROM THE PHILIPPINES
- 14:50 Lisa Fajar Indriana**, Andreas Kunzmann, Matthew James Slater
ENHANCING GROWTH PERFORMANCE OF EARLY JUVENILE SEA CUCUMBER *Holothuria scabra*: THE ROLE OF FERMENTED FEED DIETS

- 15:10** **Mai N. Thuy**, Quang Dai Thanh Phuong, Nguyen Dinh Quang Duy, Monal M. Lal, Paul C. Southgate
INTEGRATED AQUACULTURE OF THE SEA CUCUMBER SANDFISH *Holothuria scabra* WITH SNUBNOSE POMPAO *Trachinotus blochii* FOR INCREASED PRODUCTION AND NUTRIENT RECYCLING
- 15:30** **BREAK**
- 16:00** **Rachel Ravago-Gotanco**, Deo Angelo Macahig, Monal Lal, Marie Antonette Juinio-Meñez
POPULATION GENOMICS REVEALS GENETIC DIFFERENTIATION ACROSS SMALL SPATIAL SCALES AMONG SANDFISH *Holothuria (Metriatyla) scabra* POPULATIONS ALONG THE WESTERN LUZON COAST, PHILIPPINES
- 16:20** **Rachel Ravago-Gotanco**, Joselito Jr. Tabardillo, Deo Angelo Macahig, Marie Antonette Juinio-Meñez
DELINEATING GENETIC STOCKS OF THE SANDFISH *Holothuria (Metriatyla) scabra*: REGIONAL AND FINE-SCALE GENETIC STRUCTURE OF PHILIPPINE POPULATIONS REVEALED BY GENOME-WIDE SNP MARKERS

SUSTAINABILITY OF THE SHRIMP INDUSTRY - PERSPECTIVE OF A MULTISPECIES ANIMAL GENETICS GROUP

Wednesday, July 3 13:50 - 17:20 Crystal 1

Chairs: Parisa Norouzitallab, Kartik Baruah, Frédéric Grimaud

- 13:50** **Frédéric Grimaud**
SUSTAINABILITY OF THE SHRIMP INDUSTRY: PERSPECTIVE FROM A MULTISPECIES ANIMALS GENETICS GROUP
- 14:10** **Amri Yudhistira**, I Kadek Ariawan
MORPHOMETRIC DIVERSITY OF PROSPECTIVE PARENT SHRIMP *Penaeus indicus* DOMESTICATION RESULTS
- 14:30** **Cédric Pincet**, Florian Herry, Anastasia Bestin
CURRENT AND NEW TECHNOLOGIES FOR SHRIMP BREEDING INDUSTRY
- 14:50** **Bagus Rahmat Basuki**, Alimuddin Alimuddin, Dinar Tri Soelistyowati, Sri Nuryati, Wendy Tri Prabowo
IDENTIFICATION OF A POTENTIAL WSSV-RESISTANT SNP AND ITS POSSIBLE APPLICATION TO SELECTION OF WSSV-RESISTANT PACIFIC WHITE SHRIMP *Litopenaeus vannamei*

- 15:10** **Bagus Rahmat Basuki**, Alimuddin Alimuddin, Dinar Tri Soelistyowati, Sri Nuryati, Wendy Tri Prabowo
IMMUNE GENES EXPRESSION PATTERN OF PACIFIC WHITE SHRIMP *Litopenaeus vannamei* RESISTANT TO WHITE SPOT SYNDROME VIRUS
- 15:30** **BREAK**
- 16:00** **Li Lian Wong**, Zulaikha Mat Deris, Mhd Ikhwanuddin Abdullah, Yik Sung Yeong, Dinh Thinh Do, Chao Li, Asaduzzaman Md, Cher Chien Lau
TRANSCRIPTOME SIGNATURE OF JUVENILE *Litopenaeus vannamei* CULTURED UNDER DIFFERENT SALINITY LEVELS IN RESPONSE TO *Vibrio harveyi* INFECTION
- 16:20** **Hongxia Hu**, Hailiang Song, Ying Dong, Tian Dong, Hua Zhu
RESEARCH PROGRESS OF GENOMIC SELECTION IN AQUACULTURE BREEDING

SHRIMP DISEASES AND HEALTH MANAGEMENT

Wednesday, July 3 13:50 - 17:20 Crystal 3

Chairs: Ruth Garcia Gomez, drh. Toha, Heni Budi Utara

- 13:50** **Anburaj Amaladoss**, Wan Ying Koh, Kaelyne Tan, Syed Musthaq Syed Khader, Kadamb Patel, Lee Chee Wee
CRISPR-BASED RAPID ONSITE PATHOGEN (CROP) TEST KIT FOR SHRIMP
- 14:10** **Pande Gde Sasmita Julyantoro**
EVALUATION OF *Bacillus* spp. CAPABILITY TO DEGRADE THE TOXIN PROTEIN PRODUCED BY AHPND STRAIN *Vibrio parahaemolyticus* M0904
- 14:30** **Alfa Astiana Afandy**, Srinawati, Herawaty, Nur Muflich Juniyanto
PREVALENCE OF *Vibrio parahaemolyticus* IN FARMED SHRIMP *Penaeus vannamei* AND ITS ANTIBIOTIC RESISTANCE PROFILE IN SOUTH SULAWESI
- 14:50** **Si Mon Ong**
WHAT CAUSES SHRIMP IMMUNE SYSTEM CRIPPLE?
- 15:10** **Olivier Decamp**, Barbara Hostins, Peter De Shryver, Marcos Santos
COST EFFICIENT MICROBIAL MANAGEMENT OF SHRIMP FARMING
- 15:30** **BREAK**

- 16:00 Bambang Hanggono**, Didik Budi Nursanto
SHRIMP HEALTH MANAGEMENT IN PACIFIC WHITE SHRIMP *Litopenaeus vannamei* CULTURE USING MILLENNIAL SHRIMP FARMING (MSF) TECHNOLOGY IN INDONESIA (A CASE STUDY AT SITUBONDO DISTRICT, EAST JAVA)
- 16:20 Duy Hoa Nguyen**
MANAGING SHRIMP DISEASE OUTBREAKS VIA BEST FARM-MANAGEMENT PRACTICES AND PREMIUM AND/OR FUNCTIONAL FEEDS
- 16:40 Endah Mardiasuti**, Atri Triana Kartikasari, Widya Puspitasari
HEPATOPANCREATIC MICROSPORIDIASIS CONTROL USING ALBENDAZOLE IN VANNAMEI SHRIMP *Litopenaeus vannamei* CULTURE AT BALAI LAYANAN USAHA PRODUKSI PERIKANAN BUDIDAYA (BLUPPB) KARAWANG
- 17:00 Bambang Hanggono**, Arif Zaenuddin
THE EFFECTIVENESS OF SHRIMP EFFLUENT MANAGEMENT SYSTEM IN MILLENNIAL SHRIMP FARMING (MSF) TECHNOLOGY IN INDONESIA (A CASE STUDY AT SITUBONDO DISTRICT, EAST JAVA)

LARVICULTURE, LIVE-FEEDS AND HATCHERY MANAGEMENT

Wednesday, July 3 13:50 - 17:20 Diamond 1

Chairs: Amrit Bart, Diana Chan

- 13:50 Adriana Shazreen Mohd Sabri**
EFFECTS OF FEEDING FREQUENCY ON THE PRODUCTION OF ROTIFER *Brachionus plicatilis* USING AUTOMATED BATCH CULTURE SYSTEM
- 14:10 Peter Van Wyk**
ARE HIGH-QUALITY HATCHERY FEEDS STILL A GOOD VALUE IN AN ERA OF HISTORICALLY LOW PL PRICES?
- 14:30 Putri Ramdhani Ramdhani**, Ahmad Rivai, Sarifin
USE OF RESULT MAGGOT BIOCONVERSION AS GROWTH MEDIA FOR *Moina* sp. IN FRESHWATER
- 14:50 Abdul Gani**, Rochman Subiyanto
MAINTENANCE OF SEABASS LARVAES *Lates calcarifer* CLEAR WATER SYSTEM USING BREAD YEAST (BAKERY YEAST)
- 15:10 Muslimin**, Dikrurahman, Saipul Bahri, Mutia Nur Hayati, Ikhsan Kamil, Faisal Andre Siregar
SURVIVAL RATE OF SILVER POMPANO *Trachinotus blochii* LARVAE IN DIFFERENT REARING TANKS

15:30 **BREAK**

16:00 **Letizia Chiappi**, Stefano Calloni, Geert Rombaut, Barbara Hostins, Tania De Wolf
THE CRUCIAL ROLE OF MICROBIAL MANAGEMENT IN THE LIVE FEED DAILY PRACTICES: THE USE OF SANOCARE ACE-PRO TO DECREASE THE VIBRIO LOAD AND INCREASE THE QUALITY OF THE ARTEMIA

16:20 **Baharuddin Bahar**, Ramelan S. Pi, Bakhtiar Sah Putra
THE PROVISION OF BEST QUALITY SEA BASS SEEDS *Lates calcarifer* IN ORDER TO EMPOWER AQUACULTURE COMMUNITY IN ACEH

16:40 **Amrit Bart**
UNLOCKING THE POTENTIAL OF PANGASIUS AND TILAPIA SEED PRODUCTION IN NEPAL: A CASE STUDY ON HATCHERY MANAGEMENT AND TRAINING (USAID/CRS FARMER TO FARMER PROGRAM)

17:00 **Nurul Nadiah Masrialah**, F.M. Yusoff, I. Natrah, W.A.D. Umi, S.A.R. Balqis, M.Z. Hassan, F. Mohamat-Yusuff
OPTIMIZATION OF CALANOID COPEPOD *Pseudodiaptomus* sp. MASS CULTURE IN DIFFERENT SALINITY AND TEMPERATURE

AQUACULTURE ENGINEERING, WASTE RECYCLING AND TREATMENTS

Wednesday, July 3 13:50 - 17:20 Diamond 3

Chairs: Norulhuda M. Ramli, Bambang Gunadi

13:50 **SPi Rusel**
OPTIMIZING THE STOCKING DENSITY OF TILAPIA *Oreochromis niloticus* BY USING NITROBACTER AS A COMPLEMENTARY BACTERIA IN TILAPIA CULTURE ACTIVITY USING THE BIOFLOC SYSTEM

14:10 **Hendrianto**, Andi, Reza Darzona, Endang Wijayanti, Ikhsan Kamil, Faisal Andre Siregar
USE OF THE TEMPERATURE SHOCK RECIRCULATION SYSTEM IN SEABASS *Lates calcarifer* REARING CULTURE FOR CONTROL OF VIRAL NERVOUS NECROSIS OUTBREAKS

14:30 **Gianmarco David**, Vander Bruno dos Santos, Katharina Eichbaum Esteves, Marcos Vinicius Bozzo Diorio
PLASTIC APPLICATIONS IN BRAZILIAN TILAPIA AQUACULTURE

- 14:50 Agus Suriawan**, Didik Budi Nursanto
IMPLEMENTATION OF A FLOWTHROUGH WATER REPLACEMENT SYSTEM IN THE CULTIVATION OF WHITE SHRIMP *Litopenaeus vannamei* IN THE SUMBAWA REGENCY SHRIMP FARM CLUSTER
- 15:10 Budi Kurnia**, Sunardi, Agus Dwiono, Harry Wuwungan
PRODUCTION STRATEGY ON PANGASIUS *Pangasianodon hypophthalmus* NURSERY AT BALAI LAYANAN USAHA PRODUKSI PERIKANAN BUDIDAYA KARAWANG
- 15:30 BREAK**
- 16:00 Ari Prakoso**, M. Tahang, Heru Nugroho, Atri Triana
THE MODELLING OF SALINE TILAPIA AQUACULTURE (BINS) AT BLUPPB KARAWANG
- 16:20 Widya Puspitasari**, Ari Prakoso, Agus Dwiono
THE EFFECTIVENESS OF AUTOMATIC FEEDER UTILIZATION IN SALINE TILAPIA AQUACULTURE AT BLUPPB KARAWANG
- 16:40 ShengXiang Xu**, Alexander Munyaev, Ing-Jer Huang, Li-Lian Liu
INSIGHTS INTO CLAM BEHAVIOR: A NOVEL MONITORING SYSTEM FOR CLAM CULTURE
- 17:00 Dadan Kurnia Wibawa**, Dasep Hasbullah, Endah Soetanti
SEA GRAPES *Caulerpa* spp. CULTURE IN A CONTROLLED TANK AS A CULTURE DEVELOPMENT EFFORTS IN THE KARAWANG REGION, WEST JAVA PROVINCE, INDONESIA

NUTRITION, FEED INGREDIENTS, FEED ADDITIVES AND FEED TECHNOLOGY

Wednesday, July 3 13:50 - 17:20 Ballroom

Chairs: Ronnie Tan Kean Hui, Dedi Jusadi, Kartik Baruah, Desy Putri Handayani,
Le Boucher Richard

- 13:50 Hogne Abrahamsen**, Rikke Sommerlund, Isak Bøgwald
THE NOVEL RAW MATERIAL *Calanus finmarchicus* IS A RESOURCE OF FUNCTIONAL PRODUCTS FOR GROWTH AND HEALTH OF WHITELEG SHRIMP *Litopenaeus vannamei*
- 14:10 Henry Wong**, Yufan Zhang, Xuanshu He, Anqi Chen, Zhihong Liao, Gang Lin, Jin Niu
DIETARY ORGANIC ZINC POSITIVELY AFFECTS GROWTH, ANTIOXIDANT CAPACITY AND LIPID STORAGE IN JUVENILE LARGEMOUTH BASS *Micropterus salmoides*

- 14:30 Henry Wong**, Junru Hu, Zhixiong Xu, Lirong Bai, Yufan Zhang
EVALUATION OF LARGEMOUTH BASS *Micropterus salmoide* FED SELENIUM YEAST DIETS: GROWTH, HISTOPATHOLOGY, ANTIOXIDANT ABILITY, AND APOPTOSIS
- 14:50 I-Tung Chen**, Elissavet Arapi, Maria M. Isern-Subich, Joanne Cable, Antoni Ibarz, Waldo G. Nuez-Ortín
IMPROVING SKIN HEALTH OF FISH VIA SUPPLEMENTATION OF A PHYTOBIOTIC-BASED ADDITIVE
- 15:10 François Jegou**
FEED FORMULATION TO MITIGATE SHORT AND LONG-TERM IMPACTS OF STRESSORS ON HEALTH AND PERFORMANCE IN AQUACULTURE
- 15:30 BREAK**
- 16:00 Minh Anh Pham**, Ngoc Thao Truong, Marc Campet
A PROPER EARLY LIFE NUTRITION PROGRAM IMPROVES PERFORMANCE OF TILAPIA IN INTENSIVE FARMING SYSTEM
- 16:20 Le Boucher Richard**, Weiqiang Chung, Lydia Tan Shun En, Tze Hann Ng, Woon Rong Ben Neo, Jessalin Ng Kai Lin, Kar Chun Lee, Chenyi Wu, Co Sin Lee
DIGESTIBILITY OPTIMIZATION OF SINGLE-CELL PROTEIN INGREDIENTS IN ASIAN SEABASS *Lates calcarifer* AND SALINE TILAPIA *Oreochromis mossambicus*
- 16:40 Natasha Shanna Jefferson**, Annita Seok Kian Yong, Wahidatul Husna Zuldin
GROWTH PERFORMANCE OF HYBRID GROUPEL (*Epinephelus fuscoguttatus* ♀ × *E. lanceolatus* ♂) FED WITH DIFFERENT PROTEIN LEVEL DIET IN GROW-OUT SYSTEM
- 17:00 Geoffrey Bell**, An Grobler, Ana Alfaro-Chávez, Paul Attfield, Philip Bell
LOWER COST AND MORE SUSTAINABLE PRODUCTION OF HIGH VALUE SINGLE CELL PROTEIN THAT HAS BEEN OPTIMISED AS A FISHMEAL REPLACEMENT

ECONOMICS, VALUE CHAIN DEVELOPMENT, MARKETING AND TRADE, INVESTMENT, POLICY AND REGULATIONS

Wednesday, July 3 13:50 - 17:20 Diamond 4

Chairs: Alistair Douglas, Agus Heri Purnomo, James A. Young

WEDNESDAY

- 13:50 Atikah Nurhayati**, Titin Herawati, Budi Wardono
SEAWEED ECOSYSTEM BASED ON INCLUSION SOCIO ECONOMIC VALUE FOR COASTAL COMMUNITY
- 14:10 Budiati Prasetiamartati**, Burhanuddin, Kenidas Lukman Taufik, Agus Fani Faisol, Viga Ananda Wicaksono, Deddy Poerba Anggara, Anton Immink, Dane Kliinger
A MULTI-STAKEHOLDER INITIATIVE TO IMPROVE SHRIMP AQUACULTURE ACROSS A WHOLE JURISDICTION: THE SHRIMP IMPROVEMENT PROGRAM IN BANYUWANGI, INDONESIA
- 14:30 James A. Young**
APPROACHES TO DIFFERENTIATING AQUACULTURE PRODUCTS WITHIN THE GLOBAL MARKET FOR SEAFOOD
- 14:50 Tariku Hailu**, Minwyelet Mingist, Alemken Berihun, Birtukan Tsegaye, Yibeletal Aynalem
THE CURRENT FISH PROCESSING AND MARKETING OF LAKE TANA: SURVEY
- 15:10 Habson Batubara**, Mohammad Syaichudin, Lisa Mery, Patawari, Sitti Faridah, Akmal, Hamzah, Lideman, Yuani Mundaya, Muslimin, Kamaruddin, Iman Sudrajad, Syamsul Bahri, Herlina Jompa, Nani Undap, Joula Sondack, Abdul Gafur, Suciati, Arfandi Amin, Elisa Winanda
IMPLEMENTATION OF UNCLOS 1982 ON CAPTURE FISHERIES BUSINESS IN CASES OF ILLEGAL FISHING IN THE WATERS OF THE INDONESIAN EXCLUSIVE ECONOMIC ZONE (IEEZ)
- 15:30 BREAK**
- 16:00 Abhiniti Vats**
JURISDICTIONAL JOURNEYS: LEGAL CHALLENGES AND OPPORTUNITIES IN TRANSBOUNDARY AQUACULTURE MANAGEMENT
- 16:20 Trini Pratiwi**
ENHANCING MARKET VISIBILITY AND ACCESS FOR SEAFOOD SMALLHOLDERS: THE NEXUS OF SUSTAINABLE SOURCING AND LEADING IMPROVEMENT PROGRAMS

THURSDAY, July 4

INFORMATION TECHNOLOGY IN AQUACULTURE

Thursday, July 4 09:00 - 10:40 Diamond 5

Chairs: Regis Bador, Christian Maikel

- 09:00** **Arman Faries**, Bambang Hanggono, Fatmawati, Bagus Satria R.
UTILIZING OPEN SOURCE APPLICATIONS TO BUILD SMART AQUACULTURE
- 09:20** **Andrew Campbell**
WE DON'T KNOW WHAT WE DON'T KNOW – HOW THE USE OF INFORMATION TECHNOLOGY COMBINED WITH OPERATIONAL TECHNOLOGY IS CHANGING AQUACULTURE
- 09:40** **Ciaron P. McKinley**, Daniel Peñalosa Martinell
THE FUTURE OF SHRIMP FARMING: UNLOCKING FINANCIAL SERVICES THROUGH DATA TECHNOLOGIES
- 10:00** **Regis Bador**
THE SINCERITY OF THE DATA: AN ESSENTIAL CONDITION TO ACHIEVE PRECISION SHRIMP FARMING AND OPTIMIZE COST AND PRODUCTIVITY, ESPECIALLY WHEN USING INTELLIGENT DATA ANALYSIS
- 10:20** **Sherif Sadek**, Baraka Kalangahe, Peter Mrope, Farida Buzohera, Hervé Lucien-Brun
A CASE STUDY OF THE SUSTAINABLE IN-POND RACEWAY SYSTEM (IPRS) PRINCIPLES IN TANZANIA

FRESHWATER AQUACULTURE - CONTINUED

Thursday, July 4 09:00 - 10:40 Crystal 5

Chairs: Jean-Yves Mevel, Denni D. Indradjaya

- 09:00** **Dahlan**, Yuliasuti, Agus Dwiono, Nurul Ichsan
BACKYARD SMALL SCALE CATFISH *Clarias* sp. NURSERY TECHNIQUES MANAGEMENT
- 09:20** **Francis Wowor**, Ezra Wowor, Verry Pandey
DOMESTICATION OF SNAKEHEAD FISH, *Channa striata* Blkr, AS AN OPTIMIZATION EFFORT AT THE TATELU FRESHWATER AQUACULTURE CENTER

- 09:40 Talib Hussain**, Fayyaz Rasool
ISOLATION AND MOLECULAR DETECTION OF VIRULENCE AND
ANTIMICROBIAL RESISTANCE GENES OF PATHOGENIC *Escherichia coli*
ISOLATED FROM FARM RAISED CARPS OF FISH FARMS OF KASUR AND
MUZAFFARGARH, PAKISTAN

SHRIMP DISEASES AND HEALTH MANAGEMENT - CONTINUED

Thursday, July 4 09:00 - 12:20 Crystal 3

Chairs: Ruth Garcia Gomez, drh. Toha, Heni Budi Utara

- 09:00 Lukman Hakim**, Syauby Nurul Aziz
PREDICTING VANNAMEI SHRIMP SURVIVAL RATE WITH MACHINE LEARNING:
A NOVEL APPROACH FOR OPTIMIZING SHRIMP FARMING
- 09:20 Nolwenn Callac**, Carolane Giraud, Dominique Pham, Nelly Wabete, Viviane Boulo
SEEKING MICROBIAL BIOMARKERS TO MONITOR THE HEALTH OF PENAEIDAE
LARVAE IN HATCHERIES: META-ANALYSES SURVEY OF REARING WITH
CONTRASTED LARVAL SURVIVALS IN NEW-CALEDONIA
- 09:40 Teresa M. Agulles**, Houguo Xu, Yuliang Wei, Huan Liu, Ruby Yu
A NATURAL FEED ADDITIVE ENHANCES THE GROWTH AND HEALTH OF WHITE
SHRIMP *Penaeus vannamei*
- 10:00 Tuan Vu Anh**, Maria Garcia Suarez, Catherine Joyce Eusebio,
Chris Mitchum D. Ganacial, Virna Fe Subere, Ferdinand M. Traifagar,
Rowena E. Cadiz
EFFECT OF SEAWEED EXTRACTS ON GENE EXPRESSION AND GROWTH
PERFORMANCE OF WHITE LEG SHRIMP *Penaeus vannamei* AT THE
COMMERCIAL PONDS
- 10:20 Parisa Norouzitalab**, Kartik Baruah, Marta Arredondo, Beatriz Saldaña,
Marisela Arturo-Schaan
BUFFER-PROTECTED SODIUM BUTYRATE PROTECTS BRINE SHRIMP *Artemia*
AGAINST *Vibrio campbellii*
- 10:40 BREAK**
- 11:00 Saravanan Subramanian**, Sathish Kumar Thangaraj, Naveen Rajeshwar,
Sivaramakrishnan Thiruganamurthy, Sujeet Kumar, Shiva Kumar, Lane Pineda,
Morvarid Rezvani
CAN ORGANIC ACIDS BE AN EFFECTIVE DIETARY INTERVENTION TO COMBAT
VIBRIOSIS INFECTION IN SHRIMP?

- 11:20 Jimmy C.M. Wang**
THREE TRIAL METHODS TO TEST PROBIOTIC PRODUCTS' INHIBITION AGAINST *Vibrio parahaemolyticus* IN SHRIMP FARMING
- 11:40 C R Subhashini**
BACTERIOPHAGES – A NATURAL ALTERNATIVE TO ANTIBIOTICS FOR THE CONTROL OF BACTERIAL INFECTIONS IN AQUACULTURE
- 12:00 Sri Murti Astuti, Ita Rizkianti**
IN VITRO AND *IN VIVO* TESTING SIMPLICIA OF PURPLE STEPANOT LEAVES *Pseudocalymma alliaceum* AGAINST THE BACTERIA *Vibrio parahaemolyticus* WHICH IS SUSPECTED TO CAUSE ACUTE HEPATOPANCREATIC NECROSIS DISEASE (AHPND) IN VANNAME SHRIMP

AQUACULTURE ENGINEERING, WASTE RECYCLING AND TREATMENTS - CONTINUED

Thursday, July 4 09:00 - 12:20 Diamond 3
Chairs: Norulhuda M. Ramli, Bambang Gunadi

- 09:00 Edwin P.Y. Chow**
IMPROVING SURVIVAL AND PERFORMANCE – FUNCTIONAL LIPIDS AS ANTIBACTERIAL AND ANTIVIRAL TREATMENT IN AQUACULTURE
- 09:20 Glendon Teo, Yujie Ong, Daiwen Yang**
NOVEL WATER TREATMENT FOR PATHOGENS USING COTTON COATED ANTIMICROBIAL PEPTIDE
- 09:40 Guno Gumelar, Nur Muflich Juniyanto**
NITROGEN REMOVAL PERFORMANCE IN BIOREACTOR FILTERS USING INTENSIVE SHRIMP POND WASTE AS ANAMMOX BACTERIAL INOCULUM
- 10:00 Ganesh Babu Thambidurai**
REVOLUTIONARY AQUACULTURE PATHOGEN DETECTION, DIET OPTIMIZATION, SELECTIVE BREEDING, IN AQUACULTURE USING BIOMARK™ X9 SYSTEM AND IFC TECHNOLOGY
- 10:40 BREAK**
- 11:00 Shubham Soni, Arpita Sharma, Martin Xavier**
APPROACHING CIRCULAR ECONOMY: UTILIZING FISH SKIN WASTE FOR NOVEL LEATHER PRODUCTION

- 11:20** **Yih Nin Lee**, Ravi Fotedar
A REVIEW IN NANOPARTICLES IN SUSTAINABLE AQUACULTURE
MANAGEMENT: PHYSIOLOGICAL CHANGES IN FISH AND DISEASE CONTROL

BROODSTOCKS, BREEDING, GENETICS AND DOMESTICATION

Thursday, July 4 09:00 - 17:20 Crystal 1

Chairs: Jose Domingos, Wendi Triprabowo, Loc Tran

- 09:00** **Daniel Fegan**, Chotitat Luengchaichawange
BEYOND THE BASICS – BUILDING THE NEW GENETICS
- 09:20** **Zhi Weng Josiah Poon**, Xueyan Shen, Nguyen Thanh Vu, Susan Gibson-Kueh, Shubha Vij, Marie Tan, Maura Carrai, Sarah Priyanka Nelson, Celestine Terence, Joseph Angelo Uichanco, Saengchan Senapin, Ha Thanh Dong, Sunita Awate, Gerald Lui, Andy Tan, Ying Quan Tan, Dean R. Jerry, Jose A. Domingos
GENETIC IMPROVEMENT OF BARRAMUNDI *Lates calcarifer* FOR SCALE DROP DISEASE VIRUS RESISTANCE
- 10:20** **BREAK**
- 09:40** **Parisa Norouzitallab**, Farid Ghazian, Michelle Warren, Kartik Baruah
FROM EPIGENOME TO PHENOTYPES: EPIGENETICS IN FISH AND SHELLFISH BROODSTOCK MANAGEMENT
- 10:00** **Bing Liang**, Dean R. Jerry, Xueyan Shen, Celestine Terrence, Maura Carrai, Vu Nguyen, Maria G. Nayfa, Kathiresan Purushothaman, Grace Loo, Shubha Vij, Jose A. Domingos
GENETIC PARAMETERS AND GENOTYPE BY ENVIRONMENT INTERACTION OF HARVEST TRAITS FOR MALABAR RED SNAPPER *Lutjanus malabaricus* USING A 70K RED SNAPPER SNP ARRAY
- 10:20** **Fauzan**, Ipong Adiguna
GROWTH OF HYBRID BROODSTOCK CANDIDATE OF AUSTRALIAN STRAIN GENERATION 1 (F1) SEABASS IN THE CULTURE CAGE
- 10:40** **BREAK**
- 11:00** **Adriana Artilles**, John Buchanan, Marcos de Donato, Carlos Pulgarin, Peter Kube, Jeff Prochaska, Panagiotis Kokkinias, Alejandro Gutierrez, Klara Verbyla, Simon Hill
HARNESSING EFFICIENT GENETIC IMPROVEMENT TO MAXIMIZE ECONOMIC RETURN

- 11:20** **Jose A. Domingos**, Celestine Terence, Zhi Weng Josiah Poon, Saengchan Senapin, Ha Thanh Dong, Shannon Clarke, Rudiger Brauning, Ken Dodds, Xueyan Shen, Susan Kueh, Dean R. Jerry
GENOTYPE-BY-SEQUENCING (GBS) – AN UNINTENDED TOOL TO BETTER UNDERSTAND PATHOGEN PREVALENCE AND LOAD IN AQUACULTURE BREEDING PROGRAMMES
- 11:40** **Hamsah Amiruddin**, Rochman Subiyanto, Hariyano
MASS PRODUCTION OF GIANT TREVALLYFISH SEEDS *Caranx ignobilis* AT AMBON MARICULTURE DEVELOPMENT CENTER
- 12:00** **Zainuddin**, Arif Supriyanto, Muchamad Amiri, Bayu Priyambodo
PROGRESS TOWARD DEVELOPMENT OF MARINE ORNAMENTAL FISH *Premnas biaculeatus* AQUACULTURE IN THE LOMBOK MARINE AQUACULTURE DEVELOPMENT CENTER, WEST NUSA TENGGARA, INDONESIA
- 12:40** **LUNCH**
- 13:40** **Fui Fui Ching**, Shigeharu Senoo
BROODSTOCK MANAGEMENT AND POTENTIAL OF SEED PRODUCTION OF NAPOLEON WRASSE *Cheilinus undulatus*
- 14:00** **Uray Hendri Istrada**, Dikrurahman, Agung Darmono, Suyatno Suyatno, Ikhsan Kamil, Faisal Andre Siregar
IMPROVING THE QUALITY AND QUANTITY IN SPAWNING AND EGG PRODUCTION OF SILVER POMPANO *Trachinotus blochii* BROODSTOCK THROUGH FEED MANAGEMENT
- 14:20** **Rochman Subiyanto**, Hamsah Amiruddin, Sunarto
DOMESTICATION OF AMBERJACK FISH *Seriolla dumerili* AS AN EFFORT FOR SUSTAINABLE SEED PRODUCTION
- 14:40** **Bunasir**, Rohana Hidayati, Agung Hardika Tahalea, Sarmani
PERFORMANCE PARENT OF SNAKEHEAD *Channa striata* MAINTAINED IN CONTROLLED BATS IN THE AQUACULTURE DEVELOPMENT PRACTICES IN THE COMMUNITY IN MANDIANGIN
- 15:00** **Iffat Jahan**, Makamguang Kamei
INFLUENCE OF DIFFERENT GROUNDWATER SALINITIES ON GROWTH, SERUM STEROID LEVELS AND GONAD DEVELOPMENT IN COMMON CARP *Cyprinus carpio* (LINNAEUS, 1758)

- 15:20 Monal Lal**, Deo Macahig, Marie Juinio-Meñez, Jon Altamirano, Roselyn Noran-Baylon, Margarita de la Torre-de la Cruz, Janine Villamor, Racelle Rescordado, Wilfredo Uy, Hanzel Mira-Honghong, Paul Southgate, Rachel Ravago-Gotanco
COMPLEX POPULATION GENETIC STRUCTURE IN THE SEA CUCUMBER *Holothuria scabra* IN THE PHILIPPINES: IMPLICATIONS FOR AQUACULTURE AND FISHERY MANAGEMENT
- 15:40 BREAK**
- 16:00 Kelly T. Brown**, Paul C. Southgate, Epeli M. Loganimoce, Teari Kaure, Brian Stockwell, Monal M. Lal
LOSS OF GENETIC DIVERSITY DUE TO HATCHERY PRACTICES IN THE HIGH-VALUE SEA CUCUMBER *Holothuria scabra*
- 16:20 Hongyu Ma**
PROGRESS ON SEX DETERMINATION AND DIFFERENTIATION OF THE MUD CRAB *Scylla paramamosain*
- 16:40 Vaihiti Teaniniuraitemoana**, Laura Benestan, Julie Fievet, Oriane Chevalier, Cédrik Lo, Mereani Bellais, Seiji Nakasai, Dominique Devaux, Pierre Boudry, Romain Morvezen, Guillaume Mitta, Jérémy Le Luyer, Pierrick Haffray
PARENTAGE ASSIGNMENT USING SNP MAKERS EFFICIENTLY IMPROVES THE MANAGEMENT OF GENETIC DIVERSITY IN MASS SPAWNED HATCHERY SPAT OF THE BLACK LIPPED PEARL OYSTER *Pinctada margaritifera* IN FRENCH POLYNESIA
- 17:00 Hendro Wahyudi**, Cut Ruhul Muthmainnah, Bakhtiar Sah Putra
BRIDGING FISH FARMERS FOR SUSTAINABLE FISHERIES IN ACEH

BLUE ECONOMY

Thursday, July 4 09:00 - 17:20 Diamond 4

Chairs: Chris Carter, Esti Handayani, Jon Altamirano

- 09:00 Chris G. Carter**, Irene Penesis, Sarah Ugalde, Lindsey White, Angela Williamson, John Whittington
THE BLUE ECONOMY COOPERATIVE RESEARCH CENTRE PATH TO SUSTAINABLE INTEGRATED SYSTEMS FOR OFFSHORE AQUACULTURE: PROGRESS IN 2024
- 09:20 Esti Handayani Hardi**
SMART SILVOFISHERY FOR FOOD SAFETY AND SUSTAINABLE AQUACULTURE

- 09:40** **Hariyano**, La Ramlan
PRODUCTION OF TREVALLYFISH *Caranx* sp. ENLARGEMENT SCALE IN FLOATING NET CAGES AS A LOCAL COMMODITY DEVELOPMENT BUSINESS MODEL BASED ON SIMPLE TECHNOLOGY
- 10:20** **Helena Vieira**, Mariana Almeida, Noman Shafique, Miguel Leal, Ricardo Calado, Ana Lillebo
SCIENTIFIC AND MARKET TRENDS FOR MARINE CHITIN/CHITOSAN AND COLLAGEN VALUE CHAINS - IMPLICATIONS FOR AQUACULTURE CO-PRODUCTS VALORISATION
- 10:20** **Mohammad Al-Zibdah**
LAND BASED AQUACULTURE; A PROMISING PRACTICE IN JORDAN'S AQABA/ RED SEA
- 10:40** **BREAK**
- 11:00** **Muta H. Zakaria**, Nurul N.F. Syed, Mohammad A. Che Alias, Nur Leena W.S. Wong, Japar S. Bujang
ECOSYSTEM SERVICES OF SEAGRASS HABITATS IN PENINSULAR MALAYSIA
- 11:20** **Juliansyah**, Tulus, Ishak Usman, Rahmad Hidayat
DEVELOPMENT OF FISHERY CULTIVATION ON PEAT LANDS TO SUPPORT THE MINISTRY OF MARINE AFFAIRS AND FISHERIES PRIORITY PROGRAM FOR POVERTY ALLEVIATION AND GERMPLOSM PRESERVATION
- 11:40** **Ari Prakoso**, Heru Nugroho, Syofan
THE SOCIAL IMPACT OF DEVELOPING SALINE TILAPIA AQUACULTURE MODELLING AT BLUPPB KARAWANG TO SURROUNDING COMMUNITIES
- 12:00** **Emy Rusyani**, Supriya
STUDY OF THE DECLINE OF GROUPER CULTIVATION IN FLOATING NET CAGES PESAWARAN REGENCY, LAMPUNG PROVINCE
- 12:40** **LUNCH**
- 13:40** **Marie Antonette Meñez**, Tirso Catbagan, Olivier Josh Caasi
LEVERAGING PUBLIC INVESTMENT IN THE OCEAN GROW-OUT AND CULTURE OF SANDFISH *Holothuria scabra* IN NORTHWESTERN LUZON PHILIPPINES
- 14:00** **Emmylou Emperador**, Anabelle Dece Espadero, Hanzel Honghong, Wilfredo Uy
FAMILY-BASED SANDFISH FARMING: THE CASE INNORTHERN MINDANAO, PHILIPPINES

- 14:20 Marie Antonette Menez**, Rona Soy, Olivier Josh Caasi, Jeraldine Bigcas
ESTABLISHMENT AND MANAGEMENT OF COMMUNITY-BASED SEA CUCUMBER
CULTURE PRODUCTION CLUSTERS IN BOLINAO, PANGASINAN
- 14:40 Janine L. Villamor**, Joyce Laurente, Margarita de la Torre- de la Cruz
SANDFISH SEA RANCHING: CATALYST FOR THE RECOVERY OF SEA
CUCUMBER DIVERSITY
- 15:00 Quenie S. Montinola**, Jon P. Altamirano, Jesus C. Rodriguez Jr.
CAN A SMALL-SCALE TROPICAL SEA CUCUMBER HATCHERY BE PROFITABLE?
- 15:20 Jon Altamirano**, Raisa Joy Castel, Quenie Montinola, Roselyn Noran-Baylon
SEA CUCUMBER RANCHING BY THE COMMUNITIES: HOW TO MAKE IT WORK?
- 15:40 BREAK**
- 16:00 Chris G. Carter**, Sarah Ugalde, Stewart Frusher, Flavio Ribeiro,
Maren Wellenreuther, Lindsey White, Angela Williamson
SUSTAINABILITY FROM THE SEA: HOW TO SELECT SPECIES FOR
INTEGRATED OFFSHORE AQUACULTURE SYSTEMS IN AUSTRALIA AND NEW
ZEALAND
- 16:20 Bayu Priyambodo**, Baiq Shafiah, M Nurul Huda, Clive Jones
THE CURRENT STATUS, CONSTRAINTS, AND OPPORTUNITIES OF
ESTABLISHING SPINY LOBSTER AQUACULTURE INDUSTRY IN INDONESIA
- 16:40 Hazrat Ali**, Ben Belton, Mohammad Mahfujul Haque, Khondker Murshed-e-Jahan
TRANSFORMATION OF THE FARMING SEGMENT OF THE AQUACULTURE
VALUE CHAIN IN BANGLADESH
- 17:00 Henry Cuong Tran**, Julius Benaqua, Marc Campet, Anh Pham, Thao Truong
BE A SUCCESSFUL AQUA FARMER THROUGH CARRYING CAPACITY

SHRIMP FARMERS' DAY

Thursday, July 4 09:00 - 17:20 Ballroom

Chair: Iwan Sutanto

An all-day program designed to present to Shrimp Farmers, the latest in practical information to enhance their operation, increase productivity and profit and deal with current problems facing farmers.

NUTRITION, FEED INGREDIENTS, FEED ADDITIVES AND FEED TECHNOLOGY - CONTINUED

Thursday, July 4 09:00 - 17:20 Diamond 1

Chairs: Ronnie Tan Kean Hui, Dedi Jusadi, Kartik Baruah, Desy Putri Handayani,
Le Boucher Richard

THURSDAY

- 09:00** **Hazrat Ali**, Ben Belton, Mohammad Mahfujul Haque, Khondker Murshed-e-Jahan
TRANSFORMATION OF THE FEED SUPPLY SEGMENT OF THE AQUACULTURE
VALUE CHAIN IN BANGLADESH
- 09:20** **Peace Onas Somdare**, Khalidah Abdul Hamid
ASSESSING THE IMPACT OF PAPAYA LEAF EXTRACT SUPPLEMENTATION
IN DIET FOR RED HYBRID TILAPIA *Oreochromis niloticus x Oreochromis
mossambicus*
- 09:40** **Glaiza Ibañez**, Rona Soy, Marie Antonette Juinio-Meñez
UTILIZATION OF MACROALGAL JUICE AS AN ALTERNATIVE SETTLEMENT CUE
AND POST-SETTLED JUVENILE FEED FOR *Stichopus cf. horrens*
- 10:00** **Yanjiao Zhang**, Jinzhu Yang, Zhonghao Zhang, Gang Lin, Mingzhu Li, Kangsen Mai
INTESTINAL MICROBIOTA DIFFERENCES ASSOCIATED WITH PHYSIOLOGICAL
HEALTH, MEAT QUALITY, AND REGULATING MINERAL INTERACTIONS OF
Penaeus vannamei FED ORGANIC MANGANESE
- 10:20** **Emelyn Joy Mameloco**, Maila Pan, Rex Ferdinand Traifalgar
MULTIPLE BENEFITS IN ONE SUPPLEMENT: PEPTIDOGLYCAN
SUPPLEMENTATION PROMOTES GROWTH, CELLULAR ENERGY ALLOCATION,
IMPROVES DIGESTION, AND ENHANCES WHITE SPOT SYNDROME VIRUS
RESISTANCE OF JUVENILE *Penaeus monodon*
- 10:40** **BREAK**
- 11:00** **Yanjiao Zhang**, Jinzhu Yang, Zhonghao Zhang, Mingzhu Li, Gang Lin, Kangsen Mai
ORGANIC COPPER PROMOTED COPPER ACCUMULATION AND TRANSPORT,
ENHANCED LOW TEMPERATURE TOLERANCE AND TOLERANCE AND
PHYSIOLOGICAL HEALTH OF WHITE SHRIMP *Litopenaeus vannamei* (BOONE,
1931)
- 11:20** **Rex Ferdinand Traifalgar**, Modesto Melden Intoy
SOYBEAN LECITHIN SUPPLEMENTATION INCREASES THE REPLACEMENT
OF SOYBEAN MEAL WITH FERMENTED COPRA MEAL IN THE DIET OF NILE
TILAPIA *Oreochromis niloticus* (LINNAEUS, 1758) REARED IN SEAWATER

- 11:40** **Silvia Martínez-Llorens**, Ruben Olivares-Perona, Jessica Brol, Ignacio Jauralde, Miguel Jover, Ana Tomás-Vidal, David S. Peñaranda, Silvia Martínez-Llorens
EFFECT OF FISHMEAL SUBSTITUTION ON INTESTINAL TRANSCRIPTOME OF *Liza aurata* REARED IN RECIRCULATION AQUACULTURE SYSTEM (RAS)
- 12:00** **Charles Saliba**, Michael Saliba, Kartik Baruah
THE BENEFICIAL ROLE OF CACTUS ON THE CULTURE OF SHRIMP AND FISH: A SUMMARY OF INDUSTRIAL APPLICATIONS IN VARIOUS SPECIES
- 12:40** **LUNCH**
- 13:40** **Noor Khan**, Sheeza Bano
ENHANCING FARMED STRIPED CATFISH *Pangasianodon hypophthalmus* ROBUSTNESS USING DIETARY β -GLUCAN
- 14:00** **Kasun Tharaka**, Kyeong-Jun Lee, Hyunwoon Lim, Suhyeok Kim, Yeonji Lee, Youngmi Lee, Kookjin Cho
EVALUATION OF *Schizochytrium* sp. AS A NUTRITIONAL ENRICHMENT SOURCE FOR ROTIFER AND ARTEMIA ON THE GROWTH AND IMMUNITY OF PACIFIC WHITE SHRIMP *Penaeus vannamei*
- 14:20** **Govindharaj Sathishkumar**, Nathan Felix, Amit Ranjan, Arumugam Uma, Elangovan Prabu, Kalaivanan Rajalakshmi
ASSESSING THE IMPACT OF ALGAE MEAL *Arthrospira platensis* AND FISH PROTEIN HYDROLYSATE AS AN ALTERNATIVE TO FISH MEAL IN PRACTICAL DIETS OF STRIPED MURREL *Channa striata*: GROWTH PERFORMANCE, NUTRIENT UTILIZATION, AND INNATE IMMUNE RESPONSES
- 14:40** **Mark Henry F. De Leon**, Rex Ferdinand M. Traifalgar
DIETARY RICE MOTH MEAL AS FISH MEAL REPLACEMENT PROMOTES GROWTH AND NUTRIENT RETENTION IN JUVENILE TILAPIA *Oreochromis niloticus*
- 15:00** **Vyenge Erre D. Gayosa**, Rex Ferdinand M. Traifalgar, Lovelyn Marie Nievaes-Naluaran, Mark Henry F. De Leon
DIETARY ULVAN SUPPLEMENTATION TO EARLY JUVENILE MILKFISH *Chanos chanos* IMPROVED GROWTH PERFORMANCE, IMMUNE GENE EXPRESSION, AND SURVIVAL AGAINST *Vibrio harveyi*
- 15:20** **Noah Esmaeili**, Ebrahim Sotoudeh, Rahmat Hosseinpour Aghaei, Mehrzad Asadi, Mohammad Ali Yazdani, Fatemeh Jahangiri, Mohammad Khoshraftar, Parvaneh Heidari, Roghayeh Dehghani, Abdolmohammad Abedian Kenari
PROTEIN RESTRICTION CAN REDUCE FEED COST IN AQUACULTURE: EVIDENCE FROM ANCIENT, TELEOST AND CRUSTACEAN SPECIES

15:40 **BREAK**

16:00 **Tiara Faralovrisya**, Senny Helmiati, Tony Budi Satriyo
THE EFFECT OF GIVING PROBIOTICS TO BLACK SOLDIER FLY LARVAE ON THEIR GUT MICROBIOME COMMUNITY

16:20 **Amal Biswas**, Shota Shirakawa, Daisuke Nakayama, Satoshi Okimura, Tomoki Honryo, Hideki Tanaka
TUNA BY-PRODUCT MEAL ON GROWTH, WHOLE-BODY MERCURY, PHOSPHORUS LOAD AND PLASMA CHEMISTRY IN JUVENILE GREATER AMBERJACK *Seriola dumerili*

16:40 **Akhmad Riva'i**, Samsul Bahrawi, Sunyoto
ARTIFICIAL FEED ENRICHMENT WITH BIOACTIVATORS FOR BUSINESS SCALE EFFICIENCY AND EFFECTIVENESS

17:00 **Desy Putri Handayani**, Alim Isnansetyo, Senny Helmiati
THE NUTRITIONAL VALUE AND EFFECT OF BROMELAIN HYDROLYSED CHICKEN FEATHER MEAL ON *Claras* sp. GROWTH

FOOD SAFETY, INSPECTIONS, AUDITS, AND SECURITY

Thursday, July 4 11:00 - 12:20 Crystal 5

Chairs: Belinda Yaxlay, Ekowati Chasanah

11:00 **Sofian Ansori**, Niezha Eka Putri, Tiara Aprina
OVERVIEW OF DANGEROUS CONTAMINATION FROM HEAVY METALS AND BIOTOXINS IN SHELLFISH AND WATERS ON THE NORTH COAST OF JAVA

11:20 **Azwardi**, Paiman Eko Prasetyo, Alghifari Mahdi Igamo, Wahyu Aji Wijaya
INCREASING FOOD SECURITY THROUGH THE CONTRIBUTION OF FISHERIES IN THE DEVELOPMENT OF THE AQUACULTURE SECTOR

11:40 **Syamsul Arifin**
ENSURING SEAFOOD SAFETY AND PREVENTING FRAUD: THE ROLE OF BAP AND BSP CERTIFICATION

12:00 **Alistair E. Douglas**
INCENTIVISING BLOCKCHAIN TRACEABILITY ADOPTION TO ASSESS AND REDUCE FOOD SAFETY RISKS IN SEAFOOD SUPPLY CHAINS

IMMUNOLOGY, VACCINES, PROBIOTICS, PREBIOTICS AND SYNBIOTICS

Thursday, July 4 11:00 - 15:40 Diamond 5
Chairs: Murni Marlina Abdul Karim, Ching Fui Fui

- 11:00** **Wonhoon Kim**, Jongho Lim, Choong Hwan Noh, Kyeong-jun Lee
EFFECTS OF DIETARY PREBIOTIC, PROBIOTICS AND SYNBIOTIC
SUPPLEMENTATION ON INNATE IMMUNITY AND DISEASE RESISTANT OF
OLIVE FLOUNDER *Paralichthys olivaceus*
- 11:20** **Srinivas Rayaprolu**
EFFECT OF PROBIOTICS ON PATHOGENIC *Vibrio* BACTERIAL POPULATIONS
IN CULTURE PONDS OF *Litopenaeus vannamei* AT MOPHUS BANDER,
SRIKAKULAM DISTRICT, ANDHRA PRADESH, INDIA
- 11:40** **Mark Rowel Napulan**, Craig Browdy, Rex Ferdinand Traifalgar, Carmelo Del Castillo,
Ramir Lee, Emelyn Joy Mameloco, Rowena Cadiz
DIETARY SUPPLEMENTATION OF MIXED BACILLUS SPECIES PROBIOTICS
IMPROVED SURVIVAL OF WHITE SHRIMP *Penaeus vannamei* EXPOSED TO
PATHOGENIC *Vibrio harveyi* AND *Vibrio parahaemolyticus*
- 12:00** **Murni Karim**, Puvaneswari Puvanasundram, Chou Min Chong, Suriana Sabri,
Md Sabri Mohd Yusoff, Nurhamiza Izwani Baharim
PROPERTIES OF MULTI-STRAIN PROBIOTICS FROM MARINE ORGANISMS AS
BIOCONTROL OF *Vibrio harveyi*
- 12:40** **LUNCH**
- 13:40** **Christian Maikel Eman**, Ni Putu Dian Kusuma, Debby Dyanessa Saragih
THE EFFECT OF EM4 PROBIOTICS ON WATER QUALITY, GROWTH
PERFORMANCE AND FEED UTILIZATION OF COMMON CARP *Cyprinus carpio*
- 14:00** **Ahmad Daud Om**, Ain Nur Izzah Zulkarnain, Noordiyana Mat Noordin,
Shumpei lehata
FORMULATION OF PROBIOTIC-DEVELOPMENT OF ENRICHED FEED FOR RAS
NURSED HYBRID GROUPER
- 14:20** **Sherilyn T. Abarra**, Mark Rawling, Daniel L. Merrifield
EFFECTS OF LIVE AND INACTIVATED BACTERIAL FEED ADDITIVES ON THE
GROWTH PERFORMANCE AND MUCOSAL HEALTH OF MIRROR CARP *Cyprinus
carpio* UNDER A LOW FEEDING REGIME
- 14:40** **Regis Vialle**, Sarah Kharief, Juliette Ben Arous, Nicolas Versillé, Eakapol Wangkahart
ORAL DELIVERY OF A VACCINE AGAINST STREPTOCOCCISIS IN NILE TILAPIA

THURSDAY

- 15:00 Alim Isnansetyo**, Toni Kuswoyo, Murwantoko, Amir Husni, Indah Istiqomah
NON-SPECIFIC IMMUNITY, GENE EXPRESSION, AND *Streptococcus agalactiae*
RESISTANCE IN RED TILAPIA *Oreochromis* sp. WITH DIFFERENT FEEDING
INTERVALS OF SUPPLEMENTAL SODIUM ALGINATE
- 15:20 Stefani Stefani**, Alex Makol, Orapint Jintasataporn
GROWTH PERFORMANCE AND LIVABILITY OF WHITE LEG SHRIMP *Litopenaeus*
vannamei FED POSTBIOTIC AND CHALLENGED WITH *Vibrio parahaemolyticus*

GENERAL AQUACULTURE

Thursday, July 4 13:40 - 17:20 Diamond 3

Chairs: S.M. Nurul Amin, Slamet Soebjakto

- 13:40 Abdulsalam Sani Nababa**, Armayau Hamisu Bichi, Gambo Aliyu Umar
STUDIES ON SOME BIOLOGICAL ASPECTS AND PREVALENCE OF
GASTROINTESTINAL PARASITES OF *Schilbe mystus* FROM ZOBE RESERVOIR
KATSINA STATE, NIGERIA
- 14:00 Baba Usman Ibrahim**, Balogu Dennis Odionyenfe, Yunusa Abdu
FOOD AND FEEDING HABITS OF THE CICHLIDAE IN TAGWAI RESERVOIR,
NIGER STATE, NIGERIA
- 14:20 Zarirah Mohamed Zulperi**, Amirah Syafiqah Zamri, Fatin Nabilah Sahadan,
Yuzine Esa, Annie Christianus, Fadhil-Syukri Ismail, Ina-Salwany Md Yasin
DEVELOPMENT OF GONADOTROPIN-RELEASING HORMONE AGONIST
(GNRHA) IMPLANT TO REGULATE HYPOTHALAMUS-PITUITARY-GONADAL
(HPG) AXIS OF PATIN BUAH *Pangasius nasutus* (BLEEKER, 1863)
- 14:40 Harry Wuwungan**, Deni Sugianto, Syofan
CHARACTERISTICS OF TILAPIA FISH ON THE NORTH COAST OF JAVA
- 15:00 Catur Setiowibowo**, Mubinun, Salali
RELEASE WILD HOVEN'S CARP *Leptobarbus hoevenii* (IKAN JELAWAT) IN
THE PUBLIC WATERS OF THE ISLAND OF SUMATRA AS AN ADDITION TO
THE STOCK OF CAUGHT FISH AND PRESERVING THE DIVERSITY OF FISH
RESOURCES
- 15:20 Ravi Fotedar**
AQUACULTURE: UNTAPPED POTENTIAL
- 15:40 BREAK**
- 16:00 Ahmed Mustafa**
AQUACULTURE: QUANTITY OR QUALITY

- 16:20 Matangi Moeroa**, Georges Remoissenet, Moana Maamaatuaiahutapu, Marc-André Lafille, Thierry Tamata, Tuani Toussaint, Stanley Flohr, Mike Teissier
STATUS OF AQUACULTURE IN FRENCH POLYNESIA
- 16:40 Simon Leunig**, Han Kiat Chin, Yih Nin Lee, Ravi Fotedar
MAKE TOMORROW BETTER; CURTIN UNIVERSITY MALAYSIA HAS VENTURES INTO AQUACULTURE RESEARCH, COLLABORATION, AND EDUCATION TO RAISE AWARENESS, SUPPORT, AND DEVELOP THE CURRENT STATUS AND DEVELOPMENT OF AQUACULTURE IN SARAWAK

DISEASE DIAGNOSIS, DRUGS, CHEMOTHERAPEUTICS AND TREATMENT METHODS

Thursday, July 4 13:40 - 17:20 Crystal 3

Chairs: Ruth Garcia Gomez, Maftuch, Ina Salwany M Yasin

- 13:40 Endang Wijayanti**, Uray Hendri Istrada, Sri Agustatik, Ikhsan Kamil, Ade Harwono
INFECTION OF *Cryptocarion irritans* PARASITE ON SEABASS *Lates calcarifer* BROODSTOCKS IN MARICULTURE CENTRE BATAM: OUTBREAK AND CONTROLLING
- 14:00 Mustapha Amadu Sadauki**, Akeem Babatunde Dauda, Muktar Badamasi
PREVALENCE OF BLOOD PARASITES *Trapanosoma* spp. IN NILE TILAPIA *Oreochromis niloticus* (LINNAEUS, 1758) FROM ZOBE RESERVOIR, KATSINA STATE, NIGERIA
- 14:20 Eka Trisnawati**, Padel Purnama
CONTROL OF PARASITIC DISEASES IN JAYASAKTI COMMON CARP *Cyprinus carpio* NURSERIES IN A CONTROLLED CONTAINER
- 14:40 Joko Santosa**, Luluk Widiyanti
TIME SERIES OF FISH AND SHRIMP DISEASES IN NTB PROVINCE 2019 – 2023
- 15:00 Heny Budi Utari**, Radi, Agung Gunawan, Bambang Indiadie, Guruh Suryawan, Dean Akiyama
SUCCESS ON PREVENTION, QUICK DETECTION, INTERVENTION AND CONTROLLING GUIDELINES OF *Enterocytozoon hepatopenaei* INFECTION POND
- 15:20 Ratna Amalia Kurniasih**, Suherman, Ellis Mursitorini, Wiwin Wiyani, Joko Suwiryono
PATHOLOGY OF CATFISH *Pangasius* sp. IN MORTALITY EVENT IN LEBAK REGENCY, BANTEN PROVINCE
- 15:40 BREAK**

- 16:00 Indri Astuti**, Yudho Adhitomo
EFFECT OF LOCAL ISOLATE VACCINE *Edwardsiella ictaluri* FOR PREVENTION OF ESC (ENTERIC SEPTICEMIA OF CATFISH) DISEASE IN STRIPED CATFISH *Pangasionodon hypophthalmus* IN JAMBI
- 16:20 Ezra Yuni Tyastutiningsih**, Yasintya Inggariyanti, Siti Mutho Mimah
PHARMACOKINETIC AND TISSUE DISTRIBUTION OF SINGLE ORAL DOSE ENROFLOXACIN IN NILE TILAPIA *Oreochromis niloticus*
- 16:40 Wan Muhammad Izzat Amir Wan Mustafa**, Idris Shaharah, Mansor Nur Nazifah, Abdullah Azila
THE ANTIBACTERIAL ACTIVITY OF GELENGGANG *Cassia alata* PLANT AGAINST FISH PATHOGENIC BACTERIA
- 17:00 Mohamad Faisal Fahmi Bin Jafrei**, Shaharah Idris, Firdaus Nawir, Azila Abdullah
FIELD EFFICACY OF GARLIC *Allium sativum* EXTRACT AGAINST BACTERIAL DISEASE (VIBRIOSIS)

AQUATIC ANIMAL WELFARE 2024

Thursday, July 4 13:40 - 17:20 Crystal 5

Chairs: Salin Krishna, Coco Cocarcin, Marius Nicolini

- 13:40 Maria Filipa Castanheira**
MASTERING OPERATIONAL WELFARE INDICATORS WITHIN THE ASC CERTIFICATION
- 14:00 Marius Nicolini**, Murilo Quintiliano, Pau Badia
EMPOWERING AQUACULTURE: INNOVATIONS IN APPLIED ANIMAL WELFARE TECHNOLOGY AND EDUCATION
- 14:20 Sunil Kadri**, Johannes Kvam
WELFARE SCORING FOR WHOLE FISH POPULATIONS BASED ON BEHAVIOUR, PRODUCTION AND ENVIRONMENTAL VARIABLES USING ARTIFICIAL INTELLIGENCE
- 14:40 Kostas Vavitsas**, Suruchi Sharma, Abhijith E K, Rishita Changede
AQUAGUARD, A PLATFORM TECHNOLOGY FOR SUSTAINABLE DISEASE MANAGEMENT IN AQUACULTURE
- 15:00 Dominique Gautier**, Shannon Roberts
FARMED SHRIMP WELFARE MANAGEMENT FROM A SUPPLY CHAIN PERSPECTIVE

- 15:20 Lien-Huong Trinh**, Krzysztof Wojtas, Andrés Guillermo Jiménez Zorrilla
SUPPORTING THE SHRIMP INDUSTRY TO ADOPT HIGHER WELFARE PRACTICES
- 15:40 BREAK**
- 16:00 Noah Esmaeili**
HOW IS BLOOD PERFORMANCE RELATED TO THE ANTIOXIDANT SYSTEM AND LIVER ENZYMES IN FISH?
- 16:20 Nand Kumar Lathker**, Asif Shaik
EXPLORING THE PREDATORY VERSATILITY OF *B. bacteriovorus* AND ITS POTENTIAL APPLICATIONS IN AQUACULTURE
- 16:40 PANEL DISCUSSION**

BIVALVES, CRABS AND LOBSTERS - CONTINUED

Thursday, July 4 16:00 - 17:20 Diamond 5

Chairs: Leila Basti, Diana Chan

- 16:00 Taufan Haryono**, Muhammad Hidayat, Muchamad Amiri, Ni Nyoman Tri Hanayanthi
ABALONE *Haliotis squamata* MASS REARING USING HANGING COMPARTMENT METHOD IN MARINE AQUACULTURE DEVELOPMENT CENTRE – LOMBOK, WEST NUSA TENGGARA PROVINCE, INDONESIA
- 16:20 Li-Lian Liu**, Chih-Ching Lin, Chung-Wei Yang, Pi-Jen Liu
SPATIAL AND TEMPORAL VARIATION IN INFESTATION OF PORTUGUESE OYSTERS BY MACROBORERS IN FARMING AREAS IN TAIWAN
- 16:40 Ulvanida Romaskila**, Julinasari Dewi, Andrian Garbono, Rakhmat Hadi, Nana Lestari
MICROPLASTIC CONTAMINATION IN GREEN MUSSELS CULTIVATED ON PASARAN ISLAND, LAMPUNG
- 17:00 Said Al Barwani**, Sm Nurul Amin, Aziz Arshad, Anish Govender, Harib Al Habsi, Khamis Al-Riyami, Jasim Al Khayat
AGE, GROWTH, POPULATION DYNAMICS AND STOCK STATUS OF *Perna perna* IN OMANI WATERS

FRIDAY, July 5

BROODSTOCKS, BREEDING, GENETICS AND DOMESTICATION - CONTINUED

Friday, July 5 09:00 - 10:20 Crystal 1

Chairs: Jose Domingos, Wendi Triprabowo, Loc Tran

- 09:00** **Yudho Adhitomo**, Indri Astuti, Maheno Sri Widodo
THE EFFECT OF FERTILIZATION MEDIA PH ON *Spermatozoa* FERTILIZATION
PROCESS AS THE RESULTS OF SEXING ON PANGASIUUS *Pangasionodon*
hypophthalmus
- 09:20** **Bunasir**, Syafrudin Syafrudin, Muhammad Tahir
PROGENY TEST OF MALE RESULTING FROM SEX TRANSFER IN CLIMBING
PERCH *Anabas testudineus*
- 09:40** **Rohana Hidayati**, Rustadi, Dini W.K. Sari, Bunasir, Supriani
GENETIC MAPPING OF STRIPPED SNAKEHEAD *Channa striata* IN INDONESIA;
A COMPREHENSIVE STUDY ON FARM AND WILD POPULATION FROM FIVE
MAIN ISLANDS

BIVALVES, CRABS AND LOBSTERS

Friday, July 5 09:00 - 12:20 Diamond 5

Chairs: Leila Basti, Diana Chan

- 09:00** **Aprisanto Dwi Laksana**, Oki Setiawan, Januar Hakam, Muhammad Hidayat
EXISTING CONDITIONS AND SCALE-UP FOR PEARL OYSTER *Pinctada maxima*
PRODUCTION IN MARINE AQUACULTURE DEVELOPMENT CENTER (MADC)
LOMBOK, INDONESIA
- 09:20** **Bay Phung**, Nam Pham Viet, Nga Ton Nu My
EFFECTS OF MICROALGAE AND SALINITY ON GROWTH AND SURVIVAL OF
PEARL OYSTER *Pteria penguin* (RODING, 1798) LARVAE
- 09:40** **Leila Basti**, Mouna Rifi, Fabio Crocetta
TOWARD SUSTAINABLE BLUE FOODS: ECOSYSTEM-BASED ASSESSMENT OF
BIVALVE STOCKS IN A HYPER ARID COASTAL WETLAND

- 10:00 Herno Minjoyo**, Arief Rivaie, Suryadi Saputra, Yuwana Puja, Dwi Handoko Putro, Silfester Dhoe, Maya Meiyana, Suci Antoro
BIOLOGICAL PERFORMANCE OF SAND SPINY LOBSTER *Panulirus homarus* GROWOUT WITH DIFFERENT STOCKING DENSITY AT 7 M DEPTH
- 10:20 BREAK**
- 11:00 Marwan**, Muh. Suaib, Nur Muflich Juniyanto
LOBSTER CULTIVATION IN FLOATING NET CAGES (KJA) WITH LOW LIGHTNESS LEVELS
- 11:20 Faidar**, Hamka, Syamsul Bahri, Nur Muflich Juniyanto
SOLITER SI BLUE, A PRODUCTION MODEL SOLUTION FOR QUALITY CRAB *Portunus pelagicus* SEEDS TO SUPPORT INCREASED EXPORT-ORIENTED PRODUCTION OF LEADING COMMODITIES
- 11:40 Mohammad Amzad Hossain**, Ventura Tomer, Emma Jackson, Julie Robins, Nicole Flint
EFFECTS OF SALINITY AND TEMPERATURE ON THE REPRODUCTION AND MOULTING PHYSIOLOGY OF FEMALE GIANT MUD CRABS *Scylla serrata*
- 12:00 Diana Chan**, Saravanan Padmanabhan, Yun-Tzu Huang, Germaine Lau, Md Arefin Rahman, Deborah Chua, Lee Chee Wee
NON-FORMALIN BASED PROPHYLACTIC TREATMENT OF MUD CRABS
- 12:20 Yushinta Fujaya**
BLUE SWIMMING CRAB INDUSTRY AND CULTIVATION EFFORT FOR SUSTAINABILITY

SHRIMP FARM DESIGN AND MANAGEMENT

Friday, July 5 09:00 - 12:20 Crystal 5

Chairs: Farshad Shishehchian, Supito

- 09:00 Wilson Wasielesky**, Luis Poersch, Dariano Krummenauer, Geraldo Fóes, Lucas Silveira, Silvia Martínez-Llorens, David Peñaranda
CHANGING FROM CONVENTIONAL *Penaeus vannamei* SEMI-INTENSIVE CULTURE SYSTEM TO SUPERINTENSIVE BIOFLOC CULTURE SYSTEM: A REVIEW OF IMPORTANT POINTS
- 09:20 Wilson Wasielesky**, Maria de Fátima Gomes Silva, Hellyjunyor Brandão
APPLICATION OF THE DENITRIFICATION PROCESS TO REMOVAL NITRATE DURING THE CULTURE OF *Penaeus vannamei* IN A BIOFLOC SYSTEM

- 09:40** **Bayu Romadhona**, Hendra Gunawan, Supito
TECHNIQUES FOR IMPROVING POND PRODUCTIVITY THROUGH JUVENILE SHRIMP STOCKING
- 10:00** **Atri Triana**, Agus Dwiono, Ari Prakoso, Widya Puspitasari
DEVELOPMENT OF SUPERINTENSIVE VANAME SHRIMP FARMING AT BALAI LAYANAN USAHA PRODUKSI PERIKANAN BUDIDAYA (BLUPPB) KARAWANG
- 10:20** **BREAK**
- 11:00** **I Gde Budha Adyana Yasa**, Herinto, Maskar Jayadi, Suzana M. Ratriningrum
VANAME SHRIMP CULTURE MANAGEMENT IN KEBUMEN DISTRICT
- 11:20** **Georges Remoissenet**, Marc-André Lafille, Thierry Tamata, Stanley Flohr, Nick Atger, Matangi Moeroa, Rarahu David, René Bernardino, Gilles Le Moullac, Jean Goguenheim
CAGE PRODUCTION OF BLUE SHRIMP *Penaeus stylirostris* IN OLIGOTROPHIC CORAL REEF LAGOONS OF FRENCH POLYNESIA: REMARKABLE AND PROMISING RESULTS FOR FAMILY-SCALE FARMS
- 11:40** **Tommy Vu**
THE IMPORTANCE OF THE DESIGN STEP IN SHRIMP FARM INVESTMENT AND OPERATION IN VIETNAM

MICROALGAE-BACTERIA VALORIZATION: PRODUCTION TO APPLICATION

Friday, July 5 09:00 - 12:20 Diamond 4

Chairs: Natrah Fatin M. Ikhsan, Sidrotul Naim, Fatimah Md Yusoff

- 09:00** **Ina Salwany Md Yasin**, Haifa-Haryani Wan Omar, Zamri-Saad Mohd, Mohammad Noor Amal Azmai, Natrah Ikhsan
ASSESSMENT OF VIRULENCE FACTORS AND ANTIMICROBIAL RESISTANCE OF *Vibrio* SPECIES ISOLATED FROM CULTURED SHRIMP IN MALAYSIA
- 09:20** **Natrah Ikhsan**, Ina Salwany Md Yasin, Siti Zulaikha, Faridah Abas, Mohd Ihsanuddin
ROLE OF MICROALGAE WITH QUORUM SENSING INHIBITION PROPERTIES TO REDUCE ANTIMICROBIAL RESISTANCE AND CONTROL DISEASE IN AQUACULTURE
- 09:40** **Yam Sim Khaw**, Ikhsan Natrah, Fatimah Md. Yusoff, Hui Teng Tan
BIOPROSPECTING OF MALAYSIAN INDIGENOUS FRESHWATER AND MARINE MICROALGAE FOR HIGH FUcoxANTHIN AND LIPID CONTENT: POTENTIAL FOR AQUACULTURE APPLICATIONS

- 10:00 Hui Teng Tan**, Natrah Ikhsan, Fatimah Md. Yusoff, Yam Sim Khaw
ENHANCEMENT OF GROWTH AND ASSOCIATED COMPOUND OF *Spirulina* sp. FOR AQUACULTURE PURPOSE THROUGH SYMBIOTIC BACTERIA-MICROALGAE INTERACTION
- 10:20 BREAK**
- 11:00 Umi Wahidah Ahmad Dini**, Fatimah Md Yusoff, Zetty Norhana Balia Yusof, Norulhuda Mohamed Ramli, Natrah Ikhsan
REPRODUCTIVE CAPACITY AND NUTRITIONAL COMPOSITION OF A CLADOCERAN *Moina micrura* FED WITH MICROALGAE-BACTERIA DIETS
- 11:20 Mohd Ihsanuddin bin Ahmad Abdullah**, Natrah Ikhsan, Murni Karim, Clement Roy De Cruz, Muhammad Farhan Nazaruddin, Hazwani Hanim Hasnan, Ninie Diana Baharuddin
EVALUATION ON THE EFFECTS OF *Halamphora* sp. ADDITION ON BLACK TIGER SHRIMP *Penaeus monodon* POST LARVAE CULTURED IN INDOOR BIOFLOC SYSTEM

DISEASE DIAGNOSIS, DRUGS, CHEMOTHERAPEUTICS AND TREATMENT METHODS - CONTINUED

Friday, July 5 09:00 - 12:20 Crystal 3

Chairs: Ruth Garcia Gomez, Maftuch, Ina Salwany M Yasin

- 09:00 Yufan Zhang**, Senyue Liu, Gang Lin, Xiaoli Huang
CMOS ENHANCED THE MUCOSAL IMMUNE FUNCTION OF SKIN AND GILL OF GOLDFISH *Carassius auratus linnaeus* TO IMPROVE THE RESISTANCE TO *Ichthyophthirius multifiliis* INFECTION
- 09:20 Yufan Zhang**, senyue liu, Gang Lin, Xiaoli Huang
THE POTENTIAL MECHANISM OF CONCENTRATED MANNAN OLIGOSACCHARIDE PROMOTING GOLDFISH'S *Carassius auratus linnaeus* RESISTANCE TO *Ichthyophthirius multifiliis* INVASION
- 09:40 Syafiq-Syauqi S.**, Nur-Nazifah M., Shaharah M.I., Firdaus Nawi M.
PROPHYLACTIC EFFECT OF GARLIC JUICE EXTRACT AGAINST *Edwardsiella ictaluri* INFECTION IN *Pangasianodon hypophthalmus*
- 10:00 Nurbariah**, Sukenda, Sri Nuryati, Dinamella Wahjuningrum, Widanarni
SERAPOH LEAVES *Chromolaena odorata* AFFECTS THE IMMUNE RESPONSE, RESISTANCE AND HISTOPATHOLOGY OF ASIAN SEABASS *Lates calcarifer* AGAINST *Vibrio alginolyticus* INFECTION

- 10:20 BREAK**
- 11:00 Kartik Baruah**, Sineka Pathiranage, Rifat N Shanta, Mieke Eggermont, Parisa Norouzitalab
HEALTHY STARTS: INTEGRATING STRESSCEUTICALS IN FISH AND SHRIMP LARVAL MANAGEMENT
- 11:20 Swastika Dita Soraya**, Sofian Ansori, Rismelsy
EFFICACY TESTING OF ENROFLOXACIN AGAINST *Aeromonas hydrophila* IN CATFISH *Clarias* sp.
- 11:40 Ezra Yuni Tyastutiningsih**, Yasintya Inggariyanti, Siti Mutho Mimah
PHARMACOKINETIC AND TISSUE DISTRIBUTION OF SINGLE ORAL DOSE ENROFLOXACIN IN NILE TILAPIA *Oreochromis niloticus*
- 12:00 Nguyen Minh Duy**, Chewen Wei, Hai Hau Liou, Yu Xuan Wang
EFFECTIVE METHODS TO CONTROL VIBRIO IN SHRIMP CULTURE

MACROPHYTES AND ALGAE

Friday, July 5 09:00 - 15:40 Diamond 5

Chairs: Muta Harah Zakaria, Nono Hartanto, M. Razif Harun

- 13:40 Joel Wynhorst**, Ashiwin Vadiveloo, Navid Moheimani, Ravi Fotedar
THE GROWTH OF GREEN SEAWEED *Chaetomorpha linum* (O.F. Müller) Kützing CULTURED IN A RANGE OF IONIC PROFILES USING INLAND SALINE WATER AND OCEAN WATER
- 14:00 Razif Harun**, Fatimah Yusoff, Tatsuki Toda, Yoshiki Takayama, Nurul Farahin Abd Wahab
INNOVATION OF MICROALGAL PHOTOBIOREACTORS
- 14:20 Wahidatul Husna Zuldin**, Muhammad Dawood Shah
EFFECTS OF SALINITY ON THE GROWTH OF ENIGMATIC GREEN MACROALGAE *Caulerpa macrodisca* (BRYOPSIDALES, CHLOROPHYTA) UNDER LABORATORY CONDITIONS
- 14:40 Maya Meiyana**, Arief Rahman Rivaie, Silfester Basi Dhoe, Suryadi Saputra, Suciantoro Suciantoro
MULTI LOCATION TEST OF TISSUE CULTURE SEAWEED CULTIVATION TO IMPROVE NURSERY GARDENS IN COASTAL LAMPUNG

- 15:00 **Muhammad Rizal**, Sunarty, Titik Hartani, Rusmini, Abu Abas
THE PRODUCTION OF MICROALGAE *Nannochlropsis oculata* FOR MARINE FISH HATCHERY IN THE LOMBOK MARINE AQUACULTURE DEVELOPMENT CENTER
- 15:40 **BREAK**
- 16:00 **Marwa**, Kalasum Tuankotta
TREATMENT OF KOTONI SEAWEED SEEDS *Kappaphycus alvarezii* RESULTS OF PRE-ACCLIMATIZATION TISSUE CULTURE IN THE GREENHOUSE FOR CONTINUITY PRODUCTION OF QUALITY SEEDS
- 16:20 **Sarwono**, I.G. Pattipeilohy
MULTI LOCATION TEST OF SEAWEED SEEDS *Eucheuma cottonii* TISSUE CULTURE ON GROWTH IN SOUTHEAST MALUKU DISTRICT AND TUAL CITY
- 16:40 **Valentina Retno Iriani**, Yuwana Puja, Zahria Anis
THE EFFECT OF PLANTLET ACCLIMATIZATION TIME IN THE GREENHOUSE ON THE GROWTH OF COTTONII *Kappaphycus alvarezii* SEEDLINGS
- 17:00 **Khairil Jamal**, Nur Muflich Juniyanto, Mrs Kasturi, Mrs Kasriani
PRODUCTION AND REARING OF SEAWEED PLANTLETS RESULTING FROM THE GROWTH OF SPORES TO PRODUCE HIGH QUALITY SEAWEED *Gracilaria verrucosa* SEEDS

AQUACULTURE SYSTEMS (INTEGRATED AQUACULTURE, RAS, BIOFLOC, AQUAPONICS)

Friday, July 5 09:00 - 15:40 Diamond 3
Chairs: Ravi Fotedar, Lestari Lakhsmi Widowati, i Salin Krishna

- 09:00 **Muhammad Azhar**, Devrim Memiş
UTILIZATION OF DUCKWEED *Lemna minor* AND FRESHWATER MUSSEL *Anodonta cygnea* AS LIVING ORGANISM BIOFILTER INTEGRATED IN THE FISH REARING OF RAINBOW TROUT *Oncorhynchus mykiss* JUVENILES USING RAS SYSTEMS
- 09:20 **Wa Iba**, Neneng Wahyuni, Muhaimin Hamzah, Michael Rice
EFFECT OF MICROALGAE *Tetraselmis chui* (BUTCHER, 1959) ADDITION ON GROWTH AND SURVIVAL OF NILE TILAPIA *Oreochromis niloticus* (LINNAEUS, 1758) REARED IN LOW SALINITY BIOFLOC SYSTEM

- 09:40** **Julie Clarice Salva**, Tomilyn Jan Garpa, Garry Bucol, Marie Antonette Juinio-Meñez
INTEGRATIVE SANDFISH CULTURE SYSTEMS: CHALLENGES AND LESSONS
LEARNED ON THE PILOT TRIALS IN BOLINAO, PANGASINAN, PHILIPPINES
- 10:00** **Tomilyn Jan Garpa**, Julie Clarice Salva, Garry Bucol, Marie Antonette Juinio-Meñez
PILOT OF INTEGRATIVE SANDFISH *Holothuria scabra* CULTURE SYSTEMS IN
BOLINAO, PANGASINAN, PHILIPPINES
- 10:20** **BREAK**
- 11:00** **Norulhuda M. Ramli**, Nursyafiqah Saji, Khairudin Nurulhuda, Hazreen Harith
THE EFFICACY OF *Azolla pinnata* AS A BIOFILTER IN A RECIRCULATING
AQUACULTURE SYSTEM
- 11:20** **Aulia Ilmi**, Andri Hariadi, Iis Nurmawanti, Fathurrahman
INCREASING THE PRODUCTIVITY OF KNIFEFISH SEEDS *Chitala* sp. WITH A
RECIRCULATION SYSTEM (RAS)
- 11:40** **Muhamad Faizal Mohd**, Nur Nazifah Mansor, Muhamad Alif Hamli, Irfan
Hakimi Roslan, Mohd Syafiq Syauqi Mohd Salim, Nur Amalin Sofea Abdul Rahim,
Amira Syahidah Nordin
BIO-FLOC TECHNOLOGY: IMPACT AND EFFECT OF WATER QUALITY TOWARDS
BACTERIAL ISOLATION FROM *Oreochromis* spp. CULTURE IN CHINI, PAHANG
- 12:20** **LUNCH**
- 13:40** **Silvia Martínez-Llorens**, Jessica Brol, David S. Peñaranda, Tatiana Cascales,
Micol Giroto, Xavier Lekube, Markel Sanz-Latorre, Ana M. Marhuenda,
Pablo Sánchez-Jerez, Joao Rito, Ruben Olivares-Perona, Wilson Wasielesky,
Ana Tomás-Vidal
REARING OF *Mugil cephalus* IN BIOFLOC SYSTEM WITH LIGHT RESTRICTION
AND USE OF PROBIOTIC: EFFECT ON ZOOTECHNICAL PERFORMANCE
- 14:00** **Tri Heru Prihadi**, Yohanna R. Widyastuti, Endhay K.M. Kontara,
Lies Emmawati Hadie, Yuani Mundayana, Adang Saputra, Taukhid, Tutik Kadarini,
Siti Murniasih, Edy F. Wadjdy, Sirodiana, Sudarmaji, Yoga J. Satria, Kusdiarti
IMPROVING FISHPOND PRODUCTIVITY THROUGH THE APPLICATION OF
AQUAPONICS SYSTEM: A COMPREHENSIVE STUDY ON THE SYMBIOTIC
RELATIONSHIP BETWEEN CATFISH *Clarias* sp. AND HERBAL PLANT, INDIAN
PENNYWORT *Cantella asiatica*

- 14:20** **Nurul Amin**, Azeezat Junaid, Mohd Salleh Kamarudin, Wahab Edaroyati, Quazim Junaid, Nicholas Romano, Ravi Fotedar
PRODUCTIVITY AND ECONOMICS OF REDCLAW CRAYFISH *Cherax quadricarinatus* AND HYBRID LEMON FIN BARB (*Barbonymus gonionotus* ♀ × *Hypsibarbus wetmorei* ♂) POLY CULTURE WITH OR WITHOUT PHYSICAL SEPARATORS IN A CLOSED RECIRCULATING SYSTEM

SHRIMP/PRAWN NUTRITION AND FEEDS

Friday, July 5 09:00 - 17:20 Diamond 1

Chairs: Zuridah Merican, Deni Mulyono, Fanny Yasumaru, Ir. Ujang Komarudin

- 09:00** **Hoang Thi My Dung Le**, Philippe Dhert
DOES THE NUTRITION AT THE EARLY STAGE HAVE SUBSEQUENT EFFECTS ON THE LATER STAGE IN THE SHRIMP *Litopenaeus vannamei* CULTURE?
- 09:20** **Silvia Martínez-Llorens**, Raquel Serrano, Yosu Candela, Ana Tomás-Vidal, David S. Peñaranda, Ignacio Jauralde, Miguel Jover-Cerda, Laura Carpintero, Juan S. Mesa, José L. Limón, Javier Dupuy, Andrés Donadeu, Guillermo Grinday, Judit Macías-Vidal
ASSESSMENT OF FOUR INERT DIETARY MARKERS FOR THE ESTIMATION OF APPARENT DIGESTIBILITY COEFFICIENTS IN PRACTICAL DIETS FOR WHITE LEG SHRIMP *Litopenaeus vannamei* (BOONE, 1931)
- 09:40** **Aurélien Dornic**, Audrey Boulier, Nolwenn Callac, David Mazurais, Dominique Pham, Nelly Wabete, José-Luis Zambonino-Infante
ASSESSMENT OF SHRIMP FEED DIGESTIBILITY UTILIZING DEFATTED *Hermetia illucens* MEAL TO PARTIALLY SUBSTITUTE FISH MEAL IN JUVENILE *Penaeus stylirostris* FEEDS: *IN VITRO* AND *IN VIVO* METHODS
- 10:00** **Rajalakshmi Kalaivanan**, Nathan Felix, Amit Ranajn, Mir Ishfaq Nazir, Sathishkumar Govindharaj
GROWTH PERFORMANCE, APPARENT DIGESTIBILITY COEFFICIENTS, ANTIOXIDANT AND DIGESTIVE ENZYMES, AND IMMUNE ACTIVITIES OF PACIFIC WHITE SHRIMP *Penaeus vannamei* FED WITH A COMBINATION OF NOVEL FEED INGREDIENTS
- 10:20** **BREAK**
- 11:00** **Yeonji Lee**, Kyeong-Jun Lee
DIETARY PROTEIN LEVEL AFFECT PYRIDOXINE REQUIREMENT OF PACIFIC WHITE SHRIMP *Penaeus vannamei*

- 11:20 Nalin Medagoda**, Udith Wijemanna, Mirasha Hasanthi, Kyeong-Jun Lee
DIETARY THIAMINE REQUIREMENT AND ITS EFFECT ON GROWTH, INNATE IMMUNITY AND DIGESTIVE ENZYME ACTIVITY OF PACIFIC WHITE SHRIMP *Penaeus vannamei* POST-LARVAE
- 11:40 Sua Kim**, Kyeong-Jun Lee
DIETARY VITAMIN A REQUIREMENT FOR PACIFIC WHITE SHRIMP *Penaeus vannamei*
- 12:00 Alberto Nunes**, Jordana Leite, Caio Gomes, Ragnhild Dragøy, Lena Burri
MINIMUM DIETARY LEVEL AND MIX RATIO OF KRILL MEAL AND FISH MEAL TO ELICIT FEED INTAKE AND GROWTH PERFORMANCE IN JUVENILE *Penaeus vannamei*
- 12:20 Nicolas Tanrattana**, Sophie Reys, Romi Novriadi, Pierre Fortin
EVALUATING THE EFFECT OF ECONOMIX ON THE GROWTH PERFORMANCE AND HEALTH CONDITION OF PACIFIC WHITE SHRIMP *Litopenaeus vannamei* FED WITH DIFFERENT LEVELS OF PALM KERNEL MEAL
- 12:20 LUNCH**
- 13:40 Mirasha Hasanthi**, Rutchanee Chochikachinda, Kyeong-Jun Lee
EXOGENOUS PROTEASE AND PHYTASE SUPPLEMENTATION IMPROVED GROWTH, FEED UTILIZATION, INNATE IMMUNITY, NUTRIENT DIGESTIBILITY AND PATHOGENIC RESISTANCE OF PACIFIC WHITE SHRIMP *Litopenaeus vannamei*
- 14:00 Stijn Bruwiere**, Katelijne Bekers
APPLICATION OF NUCLEOTIDES IN SHRIMP DIETS BEFORE AND AFTER DISEASE CHALLENGE: EFFECTS ON PERFORMANCE, DIGESTIVE ENZYMES AND IMMUNOMODULATION
- 14:20 I-Tung Chen**, Carla A. Souza, Rayner Gonzalez-Prendes, Waldo G. Nuez-Ortín
GAINING INSIGHT INTO THE HEALTH PROMOTING MECHANISMS OF A PHYTOBIOTIC-BASED ADDITIVE IN HEPATOPANCREAS OF WHITE SHRIMP *Penaeus vannamei*
- 14:40 Ana Rodiles**, Eric Leclercq, Mathieu Castex
IN-FEED PROBIOTICS AND WATER BIOREMEDIATION IMPROVED GROWTH, BIOMASS, SURVIVAL, WATER CHEMISTRY AND MICROBIOTA IN WHITELEG SHRIMP *Litopenaeus vannamei* IN VIETNAM

- 15:00** **David S. Peñaranda**, Javier Gómez-Aguilera, Sara Ferrando-Juan, Macarena M. Jurado, María J. Estrella-González, Miguel Rodilla, Silvia Falcó, Silvia Martínez-Llorens, Ana Tomás, Miguel Jover, Francisco J. Moyano, Juan A. López-González
BIOFLOC CONSERVATION: ASSESSMENT OF PRESERVATION PROTOCOL AND RE-INOCULATION
- 15:20** **Silvia Martínez-Llorens**, Yosu Candela, Wilson Wasielesky, Marcelo Borges Tesser, Ivanilson Lima Santos, David S. Peñaranda, Ignacio Jauralde, Silvia Martínez-Llorens, Luís Henrique Poersch
EFFECT OF *S. platensis* AS AN ADITIVE IN EXPERIMENTAL DIETS ON THE GROWTH OF WHITELEG SHRIMP *L. vannamei*
- 15:40** **BREAK**
- 16:00** **Marta Arredondo**, Maria Érica da Silva Oliveira, Joice Teixeira Souza, Matheus Ramalho de Lima, Beatriz Saldaña, Marisela Arturo-Schaa
EFFECT OF BUFFER PROTECTED SODIUM BUTYRATE IN THE DIET OF *Penaeus vannamei* SHRIMP CHALLENGED WITH NITRITE
- 16:20** **Jolien van Soest**, F. Atienza, J. Giovanni, O. Jintasataporn, Veerl Vandendriessche
THE EFFECT OF DIFFERENT DIETARY SELENIUM SOURCES ON GROWTH PERFORMANCE AND DISEASE RESISTANCE IN WHITE LEG SHRIMP
- 16:40** **David S. Peñaranda**, Sara Ferrando-Juan, Javier Gómez-Aguilera, Silvia Falcó, Silvia Martínez-Llorens, Ana Tomás-Vidal, Miguel Jover, Yosu Candela, Wilson Wasielesky, Miguel Rodilla
FISHMEAL REPLACEMENT BY ALTERNATIVE PROTEIN SOURCES IN DIETS FOR *Penaeus vannamei* UNDER BIOFLOC TECHNOLOGY PRODUCTION
- 17:00** **David S. Peñaranda**, Tatiana Cascales, Silvia Martínez-Llorens, Wilson Wasielesky, Ana M. Marhuenda, Pablo Sánchez-Jerez, Yosu Candela, Mikol Giroto, Joao Rito, Jessica Brol, Miguel Jover, Ana Tomás-Vidal
STUDY OF THE PROBIOTIC POTENTIAL EFFECT ON *Penaeus vannamei* PERFORMANCE IN BIOFLOC TECHNOLOGY (BFT)

WOMEN IN AQUACULTURE

Friday, July 5 11:00 - 12:20 Crystal 1
Chairs: Bibha Kumari, Yuni Puji Hastuti

- 11:00** **Bibha Kumari**, Abhiniti Vats
THE PRESENT POSITION OF WOMEN IN THE FISH MARKETING SECTOR IN PATNA, BIHAR, INDIA
- 11:20** **Nurliyana Mohamad**
WOMEN EDUCATORS SHAPING THE FUTURE OF SUSTAINABLE AQUACULTURE
- 11:40** **Ashmita Pandey**, Shubham Soni, B.B. Nayak, Amjad Balange
FROM SUPPORTING ROLES TO LEADERS: WOMEN DRIVING CHANGE IN ODISHA'S FISHERIES SECTOR
- 12:00** **PANEL DISCUSSION**

WATER QUALITY, USAGE AND MANAGEMENT

Friday, July 5 13:40 - 15:40 Crystal 5
Chairs: David Gianmarco, Kuku Nirmala

- 13:40** **Kanaiya Naik**, Kerry Caslow
USING MONITORING EQUIPMENT FOR REAL-TIME ANALYSIS OF WATER QUALITY CONSTITUENTS
- 14:00** **Gianmarco David**, Iara Carolina Penariol
MODELING ENVIRONMENTAL CARRYING CAPACITY FOR CAGE AQUACULTURE: A CASE STUDY OF A SUBTROPICAL HYDROELECTRIC RESERVOIR
- 14:20** **Prabowo Yoga Wicaksana**, Lukman Hakim, Syaquy Nurul Aziz
EFFLUENT IN SHRIMP FARMING PREDICTION WITH SATELLITE IMAGERY AND MACHINE LEARNING
- 14:40** **Vivi Eka Indrayani**, Joko Santosa, Riky Rismunandar
CHEMICAL PARAMETERS WATER QUALITY MAPING 2023 IN WEST NUSA TENGGARA
- 15:00** **Syaripuddin**, Wa Nuraini
STUDY ON THE SUSTAINABILITY OF ANTIMICROBIAL USE (AMU) AND ANTIMICROBIAL RESISTANCE (AMR) IN MARINE FISH CULTIVATION IN AMBON BAY

ORNAMENTALS FISH AND SYSTEMS

Friday, July 5 13:40 - 16:00 Diamond 5

Chairs: Zarirah Mohamed Zulperi, Joni Hariyadi

- 13:40** **Noah Esmaeili**, Mahyar Zare, Mahsa Hosseini, Sobhan Akhavan, Hossein Hosseini, Michael Salini, Mohammad Kazempour, Artur Rombenso
EARLY MILD STRESS IN OSCAR *Astronotus ocellatus*: WHAT WE HAVE LEARNED SO FAR
- 14:00** **Ali Hafiz Alqodri**, Dimas Aditia Putra, Mulyanto
SEA HORSE SPECIES CULTIVATION *Hippocampus kuda* AND *Hippocampus comes* AT THE MAIN CENTER FOR MARINE AQUACULTURE (MCMA) LAMPUNG
- 14:20** **Hariyano**, Heru Salamet, Agam Tri Wibowo
DOMINANCE AND VALUATION OF CLOWNFISH ORNAMENTAL FISH PICASSO VARIANT *Amphiprion percula*
- 14:40** **Adi Hardiyanto**, Heru Salamet
VARIATIONS OF FILTER MEDIA IN BREEDING CLOWNFISH ORNAMENTAL FISH
- 15:00** **Agam Tri Wibowo**, Heru Salamet, Hariyano
MULTIVARIAN PRODUCTION OF CLOWNFISH MARINE ORNAMENTAL FISH *Amphiprion* sp. IN SUPPORTING THE GOVERNMENT AID PROGRAM AND FULFILLING THE NEEDS OF THE MARINE ORNAMENTAL FISH MARKET

EPIDEMIOLOGY AND HEALTH MANAGEMENT

Friday, July 5 13:40 - 17:40 Crystal 3

Chairs: Ina Salwany M Yasin, Alim Isnansetyo

- 13:40** **Amira Syahidah Nordin**, Nur Nazifah Mansor, Rimatulhana Ramly, Asnor Azrin Sabuti
CO-INFECTIONS OF *Edwardsiella ictaluri* AND *Aeromonas hydrophila* IN CAGE CULTURED *Pangasianodon hypophthalmus* IN PAHANG RIVER, MALAYSIA
- 14:00** **Helmi Husaini Zainal Fithri**, Nurasyikin Hamzah, Nur Nazifah Mansor, Nurul Hidayah Samsulrizal, Azzmer Azzar Abdul Hamid
VIRTUAL SCREENING OF POTENTIAL THERAPEUTIC AGENT FOR STREPTOCOCCOSIS VIA LIGAND-BASED PHARMACOPHORE MODELLING
- 14:20** **Mira Mawardi**, Ayi Santika, Setiadi, Annisa Wening Maharani Putri, Angela Mariana Lusiastuti
ANTIBIOTIC-RESISTANT THREADS OF *Aeromonas hydrophila* AS A MAJOR PATHOGEN IN INDONESIA FRESHWATER AQUACULTURE

- 14:40 Padel Purnama**, Mubinun
DEVELOPMENT OF JICA TILAPIA *Tilapia* sp. BROODSTOCK WITH LOCAL ISOLATE VACCINE FOR STREPTOCOCCOSIS CONTROL AND UTILIZATION IN SMALL SCALE HATCHERY (ANALYSIS USING AHP-SWOT)
- 15:00 Loc Tran**, Robert Mutunga, Yin Min Thant, Phuc Hoang, Thanh Chau
HOLISTIC MANAGEMENT STRATEGIES FOR TRANSLUCENT POST LARVAE DISEASE (TPD) IN WHITE LEG SHRIMP CULTURE

ENVIRONMENTAL PROBLEMS, BIODIVERSITY, CLIMATE CHANGE, AND ADAPTATIONS IN AQUACULTURE AND FISHERIES

Friday, July 5 13:40 - 17:40 Crystal 1
Chairs: Bibha Kumari, Yushinta Fujaya

- 13:40 Bibha Kumari**
THE CURRENT STATUS OF BIODIVERSITY OF INDIGENOUS FISH SPECIES AND THEIR CONSERVATION STRATEGY IN BIHAR (INDIA)
- 14:00 Ashmita Pandey**, Manjusha L., B.B. Nayak, Sanath Kumar H., Amjad Balange
BACTERIAL REMEDIATION OF FISH SCALE BIOWASTE: A SUSTAINABLE APPROACH FOR ECO-FRIENDLY WASTE MANAGEMENT
- 14:20 Yuni P. Hastuti**, Shabrina N. Fatimah, Hardi Pitoyo, Iwan Sutanto, Ahmad R. Kurniawan, Anggi Siregar, Setyo Pertiwi, Usaid A. Anshorullah
NITROGEN AND PHOSPHORUS: SHORT COMMUNICATION THE DYNAMICS ON THE STATUS OF CHLOROPHYLL-A, BACTERIA AND PLANKTON IN THE SHRIMP *Litopenaeus vannamei* OF ENVIRONMENTAL CULTURE
- 14:40 Herinto**, Maskar Jayadi, Suzana M Ratriningrum, Ita Rizkiyanti, Fajar Anggraeni, I Gde Buddha Adyana Yasa, Hasanuddin, Miftahul Huda, Ibnu Faturahman
EFFECTIVENESS OF WASTEWATER MANAGEMENT IN AREA-BASED VANAME SHRIMP FARMING IN KEBUMEN REGENCY, CENTRAL JAVA, INDONESIA
- 15:00 Lisa Fandana**, Faisal Abdullah, Abrar Muslim, Suhendrayatna, Hesti Meilina
PHOSPHATE ADSORPTION BY BONE COAL BOTTOM ASH ON SHRIMP POND WASTE
- 15:20 Andrian Garbono**, Julinasari Dewi, Nana Lestari, Wahyu Widiatmoko, Febri Nugroho
FISH DISEASES AND ENVIRONMENTAL MONITORING IN LAMPUNG BAY
- 15:40 BREAK**

- 16:00** **Muawanah**, Arief Prihaningrum, Lydia Erawati, Wahyu Widiatmoko, Febri Nugroho, Kurniastuty
HAB'S OF *Margalefidinium polykrikoides*, A CHALLENGE FOR FISH FARMER IN LAMPUNG BAY
- 16:20** **Siti Aisyah Razli**, Azlan Abas, Asmida Ismail, Murnira Othman, Anis Asma Ahmad Mohtar, Nor Hafizah Baharudin, Kadaruddin Aiyub, Mohd Talib Latif
EPIPHYTIC MICROALGAE AS BIOLOGICAL INDICATORS FOR CARBON MONOXIDE CONCENTRATIONS IN DIFFERENT AREAS OF PENINSULAR MALAYSIA
- 16:40** **Anes Jayanti**, Caleb Gardner, Rafael León, Ingrid Van Putten, Emily Ogier
THE EFFECT OF COMMERCIAL PUERULUS HARVESTS ON ADJACENT LOBSTER FISHERIES IN INDONESIA
- 17:00** **Belinda Yaxley**, Kypher Shreves
LIVE PHYTOPLANKTON ANALYSIS SYSTEM – A NEW INNOVATIVE WAY TO MONITOR HARMFUL ALGAL BLOOMS IN AQUACULTURE PRODUCTION SYSTEMS

EDUCATION, EXTENSION AND TECHNOLOGY TRANSFER

Friday, July 5 16:00 - 17:40 Crystal 5

Chair: Fanny Yasumaru

- 16:00** **Elliot Nelson**, Barbara Evans
CREATING WORKFORCE PATHWAYS BY EDUCATING YOUTH THROUGH AQUACULTURE
- 16:20** **Lauren Jescovitch**, Elliot Nelson, Amy J. Schrank
SUPPORTING AQUACULTURE EDUCATION AS A COLLABORATIVE IN THE U.S. GREAT LAKES REGION
- 16:40** **PANEL DISCUSSION**

