

**International Workshop on Aquaculture Medicine and Aquatic Animal Health Management in Asia Pacific: Status, Constraints and Way Forward  
[AQUAMAP25]**

**January 16-18, 2025**

**Venue: Seminar Complex, CUSAT, Main Campus, Kalamassery, Kochi-22, Kerala, INDIA**

	SL. NO.	SUBMISSION ID	POSTER CODE	TITLE	NAME OF PRESENTING AUTHOR
<b>THEME 1</b>	<b>DISEASE DIAGNOSIS IN AQUACULTURE</b>				
<b>DAY 1 SCREEN 1</b>	1	387	DAA01	Hepatopancreas in a parasitic isopod, <i>Norileca indica</i> : Light and Electron Microscopic Approach	Sreya Ashokan
	2	437	DAA02	Multi-drug resistant <i>Edwardsiella tarda</i> and its role in mass mortality of Oscar fish, <i>Astronotus ocellatus</i> : A case study from an ornamental fish farm, Kerala.	Vishnupriya PV
	3	441	DAA03	Dual infection with <i>Aeromonas veronii</i> and <i>Vibrio cholerae</i> in inland saline water-cultured <i>Penaues vannamei</i> displaying white faecal syndrome	Sreedharan Krishnan
	4	462	DAA04	Parasitic Platyhelminths on the Commercially important selected Scombrid fish species along the Malabar coast	Mugdha Sukumaran
	5	495	DAA05	Cross sectional analysis of major shrimp viral diseases in shrimp farms of Kerala, India	Saranya P
	6	702	DAA06	Incidence and Antibiotic resistance profiling of major <i>vibrio spp.</i> from shrimp farms of Kerala	Athira U S
	7	509	DAA07	Protective Effect of Volcanic Calcium Bentonite Clay as Natural Adsorbent to Mitigate Aflatoxin B1 Toxicity in Nile Tilapia ( <i>Oreochromis niloticus</i> ) (Linnaeus, 1758) Diets: Impacts on Growth, Feed Utilization, and Bioaccumulation	Remisha O
	8	617	DAA08	Emerging Threat of <i>Lactococcus garvieae</i> in Aquaculture: Insights from a Case of Lactococcosis in Oscar Fish ( <i>Astronotus ocellatus</i> )	Arathi Dharmaratnam
	9	670	DAA09	Bacterial flora associated with fin-rot-affected freshwater angelfish <i>Pterophyllum scalare</i> (Schultz, 1823)	Ambili P T
	10	672	DAA10	Detection of Tilapia parvovirus (TiPV) and <i>Streptococcus agalactiae</i> coinfection in Nile Tilapia ( <i>Oreochromis niloticus</i> ) reared in a Recirculation Aquaculture System	Muneer A
	11	731	DAA11	Viral pathogens of Giant Tiger Prawns ( <i>Penaues monodon</i> ): Molecular screening	Chithira K
	12	733	DAA12	Molecular screening of Infectious Hypodermal and Hematopoietic Necrosis Virus infected in post-larvae of Giant Tiger Prawn ( <i>Penaues monodon</i> )	Prinsha Prasad K P
	13	735	DAA13	Epidemiologic investigation of bacterial diseases during 2024 in ornamental fishes and characterization of selected strains: Consolidation of case studies from Kerala, India	Arathi M
	14	738	DAA14	Epidemiologic investigation of bacterial diseases during 2024 in food fishes and characterization of selected strains: Consolidation of case studies from Kerala, India	Samyuktha Saju
	15	739	DAA15	Is <i>Mytella strigata</i> a Reservoir for <i>Perkinsus</i> on the Kerala Coast?	Linu Eldho
<b>THEME 2</b>	<b>DISEASE DIAGNOSIS IN AQUACULTURE</b>				
<b>DAY 1 SCREEN 2</b>	1	525	DDA01	Faecal Pollution and <i>Escherichia coli</i> in Black Clam, <i>Villorita cyprinoides</i> var. <i>Cochinensis</i> : Insights from Vembanad Lake, India.	Neenu P.
	2	604	DDA03	ESKAPE EXPLORE: Integrating Genomic Data and Metadata Standardization to Address Antimicrobial Resistance within a One Health Framework	Ballamoole Krishna Kumar
	3	609	DDA04	Development and analytical validation of an RPA-CRISPR-Cas12a assay for the detection of <i>Enterocytozoon hepatopenaei</i> (EHP) in Shrimp	Dr. Praveen Rai
	4	618	DDA05	Host-Pathogen Dynamics in Oscar Fish Co-infected with <i>Aeromonas jandaei</i> and <i>Edwardsiella tarda</i>	Gayatree Behera
	5	649	DDA06	Development of IgY-based Lateral Flow Assay System for the detection of Vibriosis in aquaculture	Lakshmi Gopakumar
	6	650	DDA07	Colorimetric Reverse Transcriptase LAMP assay for rapid detection of Tilapia Lake Virus (TiLV)	Alagukanthasami Ponsrinivasan
	7	669	DDA08	Evaluating the toxicological effects and bioactive potential of <i>Rhizophora apiculata</i> mangrove extracts using the Zebrafish ( <i>Danio rerio</i> ) larvae model	Santhosh K
	8	677	DDA09	Evaluation of Subacute Toxicity induced by Ethanol Extract of <i>Piper wightii</i> Miq. towards <i>Cyprinus carpio</i>	Neethu S
<b>THEME 3</b>	<b>SUSTAINABLE AQUACULTURE PRODUCTION SYSTEMS</b>				
<b>DAY 1 SCREEN 3</b>	1	293	SAP01	Assessing the Growth Performance of Olive Barb <i>Systemus sarana</i> (Hamilton, 1822) Using Biofloc Technology: A Sustainable Aquaculture Approach	Greeshma K M
	2	374	SAP02	Assessment of gonadal development and oocyte dimensions in Crimson jobfish, <i>Pristipomoides filamentosus</i> (Valenciennes, 1830): a potential mariculture species	Manoj Kumar M
	3	416	SAP03	Effects of salinity, temperature and photoperiod on egg production of <i>Pseudodiaptomus annandalei</i> (Copepoda: <i>Calanoida</i> ) used as live feed in Mariculture.	Neethu Kuriakose
	4	433	SAP04	Screening for potential probiotic strains from <i>Lates calcarifer</i> (Sea Bass) for Aquaculture Health	Anjana Pramod
	5	436	SAP05	Biofloc-induced intestinal adaptations in goldfish: Investigating the role of gut Microbiota, Morphology, and Digestive enzyme activity	Anitha R
	6	459	SAP06	Impact of diverse Carbon Sources on Water Quality, Growth Performance, Floc Characteristics and Proximate Composition of GIFT Tilapia in Biofloc System.	Megha Lovejan
	7	478	SAP07	Integrating Kinetic Models, Gene Circuits, and Biofilm Dynamics for Enhanced Exopolysaccharide Production in Nitrifying Bacterial Consortia	Lathika Shanmugam

	8	483	SAP08	Effect of Microalgal Diet on the Growth and Survival of Adult Indian Backwater Oyster ( <i>Crassostrea madrasensis</i> ): A Proximate Analysis Approach	Ashmitha J Mishma	
	9	493	SAP09	Evaluating the Impact of Different Carbon Sources on Biofloc Formation and Growth Performance in Pearl Spot, <i>Etroplus suratensis</i> (Bloch, 1790)	Prashanth K G	
	10	494	SAP10	Variations in Reproductive Characteristics of Pearlsplit ( <i>Etroplus suratensis</i> ) from geographically different locations	Gajjela Maheshwari	
	11	502	SAP11	Reproductive biology and histological studies of ovarian development of <i>Etroplus suratensis</i>	Mohammad Saddam Hussain	
	12	528	SAP13	Comparison of horizontal and vertical Aquaponic systems for housing complex applications	Teena Elvis	
	13	541	SAP14	Optimization of sustainable commercial-scale production of two indigenous polychaete species as a key maturation diet for enhancing reproductive performance and improve biosecurity in shrimp hatcheries.	Navaneeth Krishnan A	
	DAY 1 SCREEN 4	14	610	SAP16	Efficacy of <i>Arthrospira platensis</i> -incorporated feeds on growth, feed utilization, and survival of juvenile Pearlsplit ( <i>Etroplus suratensis</i> )	Nikhila Khanna A.R
		15	613	SAP17	Influence of dietary chitosan on the growth performance, meat composition, amino acid and fatty acid profiles of the black tiger shrimp ( <i>Penaeus monodon</i> )	Ancy Ashraf
		16	616	SAP18	Optimizing Breeding Protocols for <i>Etroplus suratensis</i> : A Focus on Egg Collection, Larval and Fry Rearing	Nasrin M N
		17	622	SAP19	The Role of Sulfur-Oxidizing Bacteria in Enhancing Aquaculture Sustainability	Gopika R S
18		659	SAP20	Exploring the multifaceted efficacy of Assessed Macroalgae in Recirculating Maraponics System for the Sustainable Aqua-Agriculture Production	Sinduja Senthilkumaran	
19		664	SAP21	Effect of replacing fishmeal with <i>Lactococcus lactis</i> -PNF1 fermented hemp seed meal on growth performance, nutrient utilization, serum biochemical parameters, digestive enzyme activity, and antioxidant status in Pangasius ( <i>Pangasianodon hypophthalmus</i> )	Vinoth Kalitheerthan	
20		679	SAP 22	Enhancing Marine Aquaculture: Open Sea Cage Culture of <i>Rachycentron canadum</i> in Andaman Sea	Arjunan V M	
21		691	SAP 23	Comparative Analysis and Optimization of Cryopreservation Protocols for Fish Embryos: A case study with <i>Anabas testudineus</i>	Avanthika Kamath	
22		695	SAP24	Effects of dietary curcumin supplementation on growth performance, digestive enzyme activities and antioxidant status of fingerling <i>Labeo catla</i>	Sana Naz	
23		746	SAP27	AI Research trends in Aquaponics in India: a scoping review	Akshaj Alva	
24	769	SAP28	Suitability of Single Cell Oils from Oleaginous fungus for shrimp farming	Akshayani Valli Lade		
25	743	SAP29	Developing <i>Gracilaria</i> sp in Sustainable aquaculture system and its multifacilitated potential in phycoremediation	Misbah Saleem		
26	744	SAP30	Immunomodulatory Effects of Marine Picoalga <i>Picochlorum maculatum</i> MACC3 Biomass Against <i>Aeromonas salmonicida</i> in Guppies ( <i>Poecilia reticulata</i> ) : From Laboratory to Field	Thasreefa K		
THEME 4						
AQUACULTURE MEDICINE IN PRACTICE						
DAY 2 SCREEN 1	1	373	AMP01	Probiotic efficacy of <i>Enterobacter cloacae</i> AB-7 and its extracellular products enhancing growth, digestive function, and disease resistance in <i>Etroplus suratensis</i>	Remya Babu	
	2	425	AMP03	Evaluation of extracellular enzyme-producing autochthonous gut bacteria in Pearlsplit, <i>Etroplus suratensis</i> (Bloch, 1790)	Akhil Ignus	
	3	431	AMP04	Enhancing oral vaccination efficacy by co-administering short chain fatty acid, butyrate with inactivated TiLV vaccine in Nile tilapia	Rahul Krishnan	
	4	444	AMP05	Microbial associates of <i>Palythoa</i> spp.: Potential source of antimicrobial agents in aquaculture	Anitha Antony	
	5	469	AMP06	Beyond Antibiotics: Advancing Sustainable Aquafarming Through Probiotic Therapy in Fish Diseases Management- Cases of Nile Tilapia and Common carp	Remy Ntakirutimana	
	6	476	AMP07	Effect of <i>Bacillus amyloliquefaciens</i> alc2, <i>Bacillus cereus</i> km9, and their combination on growth, digestive enzymes, immunohematological parameters, antioxidant activity and resistance to <i>Aeromonas hydrophila</i> in Nile tilapia ( <i>Oreochromis niloticus</i> )	Likitha K	
	7	513	AMP10	Development and Immuno-protective efficacy of a Calcium Phosphate Nanoparticle-based vaccine against <i>Aeromonas hydrophila</i> in Aquaculture	Abhiram A	
	8	546	AMP11	Comprehensive Evaluation of the Antiproliferative and Apoptotic Mechanisms of Recombinant Stylicin from <i>Penaeus vannamei</i> on Human Cancer Cell Lines	Deepakrajasekar Padmanaban	
	9	552	AMP12	An Investigation on the Probiotic and Pigment Enhancing Potential of Carotenogenic Manglicolous Yeast <i>Rhodotorula paludigena</i> VA242 in the Indigenous Ornamental Fish, <i>Dawkinsia filamentosa</i>	Farzana M N	
	10	557	AMP13	Microbiome manipulation: Selection and Screening frameworks towards designing a metal-resistant bacterial consortia	Silpa Chandran	
DAY 2 SCREEN 2	11	580	AMP14	Enhancing growth, immune response, antioxidant capacity and disease resistance using <i>Cyanthillium cinereum</i> whole plant extract in <i>Aeromonas hydrophila</i> infected <i>Channa striata</i>	Adarsh Jayanth A B	
	12	585	AMP15	Improving the Immune Response, Growth, and Disease Resistance of <i>Channa striata</i> with <i>Cissus quadrangularis</i> Stem Extract challenged with <i>Aeromonas hydrophila</i>	Archana C	
	13	587	AMP16	Efficacy of <i>Boerhaavia diffusa</i> whole plant aqueous extract supplemented diets on growth, antioxidant activity, immune response and disease resistance in <i>Channa striata</i> infected with <i>Aeromonas hydrophila</i>	Ayush Chandravanshi	
	14	593	AMP17	Immunotherapeutic Efficacy of IgY Antibodies Targeting <i>Aeromonas hydrophila</i>	Riya Michael	
	15	594	AMP18	Modulation growth, immunity, antioxidant status, and disease resistance against <i>Streptococcus agalactiae</i> in Nile tilapia, <i>Oreochromis niloticus</i> , by <i>Biophytum sensitivum</i>	Akshay T R	
	16	623	AMP19	Isolation and Identification of a probiotic bacteria from the gastro intestinal tract of Snubnose pompano, <i>Trachinotus blochii</i>	Rinsiya N	
	17	633	AMP20	In-silico-based approach for vaccine development for Infectious Spleen and Kidney Necrosis Virus	Kumar Shreshtha	

	18	668	AMP21	Lyophilized Pyocyanin - An emerging drug of choice in aquaculture in lieu of antibiotics	Jini Jimmy
	19	688	AMP22	Molecular identification of a Histone H2A derived antimicrobial peptide from virus-infected Nile tilapia ( <i>Oreochromis niloticus</i> )	Linu Balan
	20	732	AMP23	<i>Leptolyngbya</i> sp. MACC32-based co-culture and feed formulation in aquaculture: An attempt to quorum quenching therapy against vibriosis in <i>Penaeus monodon</i> post-larvae	Saranya M
<b>THEME 5</b>	<b>AQUATIC ANIMAL HEALTH MANAGEMENT IN PRACTICE</b>				
<b>DAY 2 SCREEN 3</b>	1	352	AHM01	Nanoemulsion of Coriander oil and <i>Asparagus racemosus</i> having antioxidant and antimicrobial properties as an alternate strategy to reduce antibiotic use in aquaculture	Vineetha V. P.
	2	359	AHM02	Coir-pith derived cellulose nanofibrils (CDCNF) based immobilized <i>Pseudomonas</i> formulation in aquaculture health management.	Divya Jose
	3	408	AHM03	Genotoxic Effects of Mercury Chloride in <i>Cyprinus carpio</i> : Implications for Aquatic Animal Health and Ecosystem Sustainability	Nivethitha P
	4	423	AHM04	Effects of dietary administration of curcumin, beta glucan, herbal extract and garlic extract on the growth and immune profile of <i>Penaeus vannamei</i>	Praveena P
	5	443	AHM05	16S eDNA Metabarcoding Reveals Microbial Community Composition and Functional Dynamics as Key Indicators for Aquatic Ecosystem Monitoring and Management	Boobal R
	6	460	AHM06	Plasmid-mediated Antibiotic Resistance in <i>Klebsiella</i> Isolates from Juvenile Fish in Aquaculture Farms of Ernakulam, Kerala	Jijina M P
	7	464	AHM07	Molecular cloning, Characterization, and Expression analysis of two C-type lectin cDNAs in the Japanese Mitten Crab, <i>Eriocheir japonica</i>	Thasni Mallisseri
	8	477	AHM08	Diversity and abundance of complete Ammonia oxidizers (COMAMMOX) in various aquaculture system	Bandi Sumanth Kumar Reddy
	9	486	AHM09	Sustainable Synthesis of Ag/ZnO Biometallic Nanoparticles for Efficient Photocatalytic degradation of Ciproflaxacin in Water bodies: Synthesis, Characterization and Mechanistic Insights	Sudheep N M
	10	508	AHM10	Experimental Tilapia lake virus (TiLV) susceptibility in Red zebra, <i>Maylandia estherae</i> -An alarm for the ornamental fish trade	Evangelin Paripoorana David
	11	510	AHM11	Diversity and abundance of nitrifying microbial communities in commercial aquaponics systems	Jifiriya M J
	12	516	AHM12	Review on Antibiotic Resistance in Aquaculture: Impact of Climate Change on Disease Risks and Application of Geographic Information System	Divya Nair
	13	540	AHM13	To Study and Develop Lupeol-Fortified Fish meal to reduce Oxidative Stress	Vaanmathy S
	14	571	AHM14	Assessment of genetic diversity of <i>Etroplus suratensis</i> in Vembanad Lake, Kerala, India	Amal Vasu
<b>DAY 2 SCREEN 4</b>	15	578	AHM15	Genomic profiling of <i>Streptococcus agalactiae</i> to formulate a cross-protective vaccine for Nile Tilapia	Ritam guha
	16	583	AHM16	Effect of herbal plant extracts of <i>Chromolaena odorata</i> and <i>Phyllanthus niruri</i> on growth and haematological parameters of <i>Channa striata</i> (Bloch 1793), and its antibacterial activity	Leesha O S
	17	599	AHM17	Investigating the diversity of antibiotic resistance determinants in aquatic environments	Vijaya Kumar Deekshit
	18	602	AHM18	Effect of povidone-iodine disinfection on the bacterial flora, hatchability and early larval survival of pearlspot ( <i>Etroplus suratensis</i> ) eggs under ex-situ incubation	Shaik Irshad Ali
	19	646	AHM19	Assessing Urban Impact on Sediment Quality : A Comparative Study of Ithikkara River Mouth and Kollam Canal Discharge in Paravur Lake, Kerala	Anupama V S
	20	648	AHM20	Sequence analysis of $\beta$ -defensins revealed structural diversity in different isoforms indicating functional polymorphism in fish	Sweta Das
	21	704	AHM21	Isolation of Probiotic Bacteria from Commercially important Flat Fish Fauna of Malabar Coast	Meera Nair I
	22	665	AHM22	Traditional shrimp culture: Systems of Kerala hold the principles of Eco-system based in Approach in Aquaculture- A Case Study	Divya P
	23	671	AHM23	Environmental Biofilm-Forming Bacteria for Heavy Metal Bioremediation: A Sustainable Approach to Aquatic Health Management	Revathy P K
	24	705	AHM24	Prevalence of virulence genes and antimicrobial resistance genes in motile <i>Aeromonas</i> sp. from fresh water fishes of Tamil Nadu	Chrisolite Bagthasingh
	25	717	AHM25	Effect of Seasonal and Diurnal Temperature Variations in the Physiological and Behavioural patterns in <i>Penaeus monodon</i> broodstock and stress responses	Famitha Rasheed
	26	727	AHM26	Haematological and Histopathological Evaluation of <i>Oreochromis mossambicus</i> Exposed to Extracts of Shatavari ( <i>Asparagus racemosus</i> ) Plant Parts	Chandana J S
	27	728	AHM27	Implementation of a bivalve recirculating aquaculture system (RAS) for long-term, low-stress experimental rearing	Soumya Balakrishnan
	28	729	AHM28	<i>Streptococcus agalactiae</i> , an emerging pathogen in the finfish culture systems of Kerala, managed through the administration of the antagonistic <i>Pseudomonas aeruginosa</i> MCCB 102 and 104 and the marine yeast <i>Candida</i> sp. MCCF 101 through diet.	Keerthana P V
<b>THEME 6</b>	<b>POLICIES, REGULATIONS AND IMPLEMENTATIONS</b>				
<b>DAY 1 SCREEN 2</b>	1	412	PRA01	Bridging the Gap: Understanding Aquaculture Policy Awareness in Indian Communities	Megha Maria Lal
	2	519	PRA02	Fostering Sustainability in Ornamental Fish Breeding under Aquaculture: A Legal and Policy Analysis from Indian Perspective	Taniya Ahuja