



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 **SCHEDULE**

(Indian Standard Time (IST/UTC+05:30)

| DAY/TIME | SESSION/TOPIC | SPEAKER |
|-------------------|---|---|
| DAY 1 | January 16, 2025 Thursday | |
| 08.00AM - 09.00AM | Registration | |
| 09:30AM - 10:30AM | Inauguration/Opening Ceremony | Inauguration: Shri George Kurian Hon'ble Minister of State, Minority Affairs, and Fisheries, Animal Husbandry & Dairying Government of India |
| 10:30AM - 11:00AM | Tea/Coffee break | Poster viewing and evaluation/ Networking |
| | Plenary Lecture 1 | |
| 11:00AM - 11:25AM | Transboundary Aquatic Animal Diseases: The Role of Trade and Aquaculture Biosecurity | Dr Eduardo M. Leano Network of Aquaculture Centres in Asia-Pacific (NACA) |
| | Session 1: Diseases in Aquatic Animals | Chair: Prof. Sophie St-Hilaire Professor of Aquatic Animal Health, City University of Hong Kong Co-Chair: Dr. A.S. Sahul Hameed Coordinator, Aquatic Animal Health Laboratory, C Abdul Hakeem College, Tamil Nadu |
| | Keynote address | |
| 11:30AM - 11:50AM | Diseases in Aquaculture - Qualitative and quantitative assessment of disease burden in aquaculture | Dr. P.K. Sahoo Director-cum-ICAR National Professor, ICAR-CIFA |
| | Invited talks | |
| 11:50AM - 12:05PM | 1: Viral, bacterial, and fungal pathogens of Finfishes in the Asia – pacific | Dr Megha Bedekar Principal Scientist and Head, Aquatic Environment and Health Management, ICAR-CIFE |
| 12:05PM -12:20PM | 2: Viral, bacterial, and fungal pathogens of Crustacea | Dr. Subhendu Kumar Otta Principal Scientist, ICAR-CIBA |
| 12:20PM - 12:35PM | 3: Viral, bacterial, parasitic and fungal pathogens of Molluscs | Dr. N. K. Sanil Principal Scientist, ICAR-Central Marine Fisheries Research Institute |







| 12:35PM - 12:50PM | 4: Protozoan and metazoan parasites | Dr. B. Santhosh |
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| | in aquaculture | Principal Scientist and Head, VRC, ICAR –CMFRI |
| 12:50PM - 01:05PM | 5: Diseases with unknown etiology | Dr. S. R. Krupesha Sharma, |
| 01:05PM - 01:30PM | (Nutritional, environmental) Discussion | Principal Scientist, ICAR –CMFRI |
| 01:30PM - 02:30PM | LUNCH BREAK | Poster viewing and evaluation/ Networking |
| 01.301 N1 - 02.301 N1 | LUNCH BREAK | Chair: Dr. P.A. Loka Bharati |
| | | Former Chief Scientist, Professor AcSIR, CSIR, |
| | Session 2 | National Institute of Oceanography |
| | Disease Diagnosis in Aquaculture | Co-chair: Dr David Verner-Jeffreys |
| | | Senior Scientist, Aquatic Animal Health, WorldFish |
| | Keynote address | 1 |
| | Disease Diagnosis in A quantum | |
| | Disease Diagnosis in Aquaculture - Practical Approaches to touch | Dr. Iddya Karunasagar |
| 02:30PM - 02:50PM | upon the grass root level health | Senior Officer (Retd.), Food & Agriculture |
| | management | Organization of UN |
| | | Emeritus Professor, Nitte University |
| | Invited talks | D. D.V. D. (II |
| 02:50PM - 03:05PM | 1: Assessment of environmental | Dr. P.K. Patil |
| 02:50PWI - 03:05PWI | quality in disease diagnosis | Principal Scientist & Chairman, PME & ITMU, ICAR- |
| | 2: Assessment of clinical signs, | Central Institute of Brackishwater Aquaculture (CIBA) |
| | internal and external gross | Dr. Neeraj Sood |
| 03:05PM - 03:20PM | anatomical and fine pathological | Principal Scientist, ICAR-NBFGR |
| | changes in diagnosing diseases | Timopar Sciencist, 107 He 1451 GR |
| | 3: Histology and ultra-structural | Dr. T.V. Anilkumar |
| 03:20PM - 03:35PM | studies: advancements of | Scientist G & Head of Division, Sree Chitra Tirunal |
| | microscopy in disease diagnosis | Institute for Medical Sciences and Technology |
| | 4: Nucleic acid and Antibody-based | Dr. M. Shashi Shekhar |
| 03:35PM - 03:50PM | diagnostics in aquaculture: A | Principal Scientist& Head, Aquatic Animal Health, and |
| | Critical Evaluation | Environment Division, ICAR-CIBA |
| 00 50015 01050 | 5: Changing paradigms in aquatic | Dr. K.V. Rajendran |
| 03:50PM -04:05PM | animal disease and evolving | Principal Scientist and Head of Division (Retd.) |
| | diagnostic techniques | Adjunct Professor, ICAR-CIFE |
| | | Prof. Dr. R. Dinakaran Michael Former Dean of Life Sciences, Vels Institute of |
| | 6: Hematology and serology: | Science, Technology and Advanced Studies (VISTAS) |
| 04:05PM - 04:20PM | practical solutions for rapid field- | & |
| 04.031 W1 - 04.201 W1 | level diagnosis in aquaculture | Dr. Parasuraman A.S. |
| | as to diagnosis in aquaculture | Humboldt Postdoctoral Research Fellow |
| | | Thunen Institute of Fisheries Ecology |
| 04:20PM - 04:50PM | Discussion | |
| 04:50PM - 05:15PM | Tea/Coffee break | Poster viewing and evaluation/ Networking |
| | | Moderator: Dr. Iddya Karunasagar |
| 05:15PM - 06:30PM | Panel discussion 1 | Senior Officer (Retd.), Food & Agriculture |
| U3.131 WI - UU:3UF WI | Cell line development | Organization of UN |
| | | Emeritus Professor, Nitte University |





| | | Deputy Moderator: Dr. K.V. Rajendran Principal Scientist and Head of Division (Retd.) Adjunct Professor, ICAR-CIFE |
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| | Application and potential uses of Fish Cell Lines | Dr. Sahul Hameed Coordinator, Aquatic Animal Health Laboratory, C Abdul Hakeem College, Tamil Nadu |
| | Status of finfish cell lines available in India and the prospects of employing them for studying viral aetiology in the Asia Pacific: Scientific and Legal issues | Dr. T. Rajaswaminathan Head of Division, Microbiology, ICAR-Central Institute of Fisheries Technology, Cochin. |
| | Cell lines from marine finfishes: Critical factors for consideration for developing normal cell lines and embryonic stem cells. | Dr. K. S. Sobhana Principal Scientist, ICAR-CMFRI |
| | Fish Cell Line Repositories in the Indian context: Establishment, Operation and Extension to support fish virus research in the Asia Pacific: Status, Constraints and Way forward. | Dr. Basdeo Kushwaha Principal Scientist & In Charge, NRFC ICAR-NBFGR |
| | Invertebrate cell lines in aquatic animal health management: Status, Constraints and the way forward. | Dr Jayesh Puthumana Assistant Professor, National Centre for Aquatic Animal Health (NCAAH), CUSAT |
| DAY 2 | Janu | uary 17, 2025 Friday |
| | Plenary Lecture 2 | |
| 09:30AM - 09:55AM | Path to sustainability in aquaculture- based food production in Asia Pacific to feed the world: Socio- economics and governance | Dr. M. Vijay Gupta, Padma Sri awardee World Food Prize Laureate, Sunhak Peace Prize Laureate, Former Assistant Director General, WorldFish |
| | Session 3 Sustainable Aquaculture Production Systems in Practice | Chair: Dr. Indrani Karunasagar Director, UNESCO MIRCEN for Medical & Marine Biotechnology, Nitte University Co-chair: Dr. T. Rajaswaminathan Head of Division, Microbiology, ICAR-Central Institute of Fisheries Technology, Cochin. |
| | Keynote address | |
| 10:00AM - 10:20AM | Sustainable Aquaculture Production Systems in Practice | Dr. Rohana Subasinghe Chief of Aquaculture (Retired), FAO-UN Co-founder and Director, Future Fish, UK |
| | Invited talks | |
| 10:20AM -10:35AM | 1: Operational concepts of sustainability – Adoption of extensive, semi-intensive and intensive systems based on the location | Prof. J.M.P.K. Jayasinghe Emeritus Professor, Department of Aquaculture & Fisheries, Wayamba University of Sri Lanka |





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| 10:35AM - 10:50AM | 2: Sustainable feeds and responsible feed management | Dr. Imtiaz Ahmad Khan Professor, Department of Zoology, University of Kashmir |
| 10:50AM - 11:05AM | 3: Ecosystem-based approach in aquaculture for sustainability and environmental protection | Dr. V. V. R. Suresh Principal Scientist & Head, Mariculture Division, ICAR-CMFRI |
| 11:05AM - 11:20AM | 4: Precision Aquaculture, Aquaculture System Design and Automation for Socio-economic and Environmental Sustainability | Prof. P. Chellapandi, Head, Industrial Systems Biology Lab, Department of Bioinformatics, Bharathidasan University |
| 11:20AM - 11:35AM | Tea/Coffee break | Poster viewing and evaluation/ Networking |
| 11:35AM - 12:15PM | Panel discussion 2: Aquaculture Production Systems for sustainable production and profitability | Moderator: Dr. C.V. Mohan Emeritus Scientist, WorldFish Deputy Moderator: Dr. P.K. Patil Principal Scientist & Chairman, PME & ITMU, ICAR- Central Institute of Brackishwater Aquaculture (CIBA) |
| | Zero-water exchange and Recirculating aquaculture systems | Prof. I.S. Bright Singh Emeritus Professor, NCAAH, CUSAT |
| | IMTA/Bio-floc/ Aquaponics/ Raceways and Developments in Sri Lanka | Prof. J.M.P.K. Jayasinghe Emeritus Professor, Wayamba University of Sri Lanka |
| | Nitrification in aquaculture systems | Dr. Rejish Kumar Assistant Professor, KUFOS |
| | Denitrification in aquaculture systems | Dr. Preena P.G. Assistant Professor, KUFOS |
| 12:15PM - 12:45PM | Discussion | , |
| 12:45PM - 01:45PM | LUNCH BREAK | Poster viewing and evaluation/ Networking |
| | Session 4 Aquaculture Medicine in Practice | Chair: Dr Thitiwan Patanasatienkul Aquatic Animal Health Officer, WOAH Co-chair: Dr. S. Kandan Director, Rajiv Gandhi Centre for Aquaculture (RGCA) |
| | Keynote address | |
| 01:45PM - 02:05PM | Can Fish health extension services reduce antibiotic resistance in Aquaculture | Prof. Sophie ST-HILAIRE Professor of Aquatic Animal Health, City University of Hong Kong |
| | Invited talks | |
| 02:05PM - 02:20PM | 1: Gut microbiome manipulation in Aquaculture using Probiotics, prebiotics and Quorum quenchers in aquaculture: Key issues of concern | Dr. Anas Abdul Aziz Senior Principal Scientist, Regional Centre, CSIR- National Institute of Oceanography |
| 02:20PM - 02:35PM | 2: Phage therapy in aquaculture: A long way to go bacterial pathogens | Dr. C. R. Subhashini Director, Aristogene Biosciences Private Limited, Bangalore |
| 02:35PM - 02:50PM | 3: Vaccination and immune stimulation as two facets of | Dr. Indrani Karunasagar |





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| | preventive health care in | Director, UNESCO MIRCEN for Medical & Marine |
| | aquaculture and Drug delivery | Biotechnology, Nitte University |
| | systems in aquaculture | |
| | 4: Hormonal formulations for | |
| 02:50PM - 03:05PM | endocrine regulation of reproduction | Dr. Prem Kumar |
| 02.301 141 - 03.031 141 | in fin and shellfishes: Building up a | Senior. Scientist, ICAR- CIFE |
| | sound strategy | |
| | 5: Synthetic biology and | Prof. Pawan Dhar |
| 03:05PM - 03:20PM | biomanufacturing in aquaculture | Executive Director, CVJ-Centre for Synthetic Biology, |
| 03.031 W1 - 03.201 W1 | medicine and aquatic animal health | CUSAT |
| | management: A Futuristic Projection | COSAI |
| | 6: Opportunities and challenges | |
| 02 20015 02 25015 | with improving biosecurity in | Dr David Verner-Jeffreys |
| 03:20PM - 03:35PM | aquaculture operations in the global | Senior Scientist, Aquatic Animal Health, WorldFish |
| | south | , 1 |
| 03:35PM - 04:15PM | Discussion | |
| 04:15PM - 04:45PM | Tea/Coffee break | Poster viewing and evaluation/ Networking |
| 04.131141 - 04.431141 | Tea/Conce break | Chair: Prof. J.M.P.K. Jayasinghe |
| | Session 5 | Emeritus Professor, Wayamba University of Sri Lanka |
| | Aquatic Animal Health | Co-Chair: Dr. Imtiaz Ahmad Khan |
| | Management in Practice | Professor, Department of Zoology, University of |
| | Wanagement in Tractice | Kashmir |
| | IZ | Rasillilli |
| | | |
| | Keynote address | Dr C V Mohan |
| 04:45PM - 05:05PM | Aquatic Animal Health | Dr. C.V. Mohan Emeritus Scientist WorldFish |
| 04:45PM - 05:05PM | Aquatic Animal Health Management in practice | Dr. C.V. Mohan Emeritus Scientist, WorldFish |
| 04:45PM - 05:05PM | Aquatic Animal Health Management in practice Invited talks | |
| 04:45PM - 05:05PM | Aquatic Animal Health Management in practice Invited talks 1: Environment management | |
| | Aquatic Animal Health Management in practice Invited talks 1: Environment management through bioremediation | Emeritus Scientist, WorldFish |
| 04:45PM - 05:05PM 05:05PM - 05:20PM | Aquatic Animal Health Management in practice Invited talks 1: Environment management through bioremediation (bioremediation of detritus, | Emeritus Scientist, WorldFish Prof. Valsamma Joseph |
| | Aquatic Animal Health Management in practice Invited talks 1: Environment management through bioremediation (bioremediation of detritus, ammonia, and hydrogen sulphide) – | Emeritus Scientist, WorldFish |
| | Aquatic Animal Health Management in practice Invited talks 1: Environment management through bioremediation (bioremediation of detritus, ammonia, and hydrogen sulphide) – A key to success in aquaculture | Emeritus Scientist, WorldFish Prof. Valsamma Joseph |
| | Aquatic Animal Health Management in practice Invited talks 1: Environment management through bioremediation (bioremediation of detritus, ammonia, and hydrogen sulphide) – A key to success in aquaculture health management | Prof. Valsamma Joseph Director, NCAAH, CUSAT |
| 05:05PM - 05:20PM | Aquatic Animal Health Management in practice Invited talks 1: Environment management through bioremediation (bioremediation of detritus, ammonia, and hydrogen sulphide) – A key to success in aquaculture health management 2: Health management strategies of | Prof. Valsamma Joseph Director, NCAAH, CUSAT Dr. K. Ganesh |
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| 06:05PM - 06:20PM | 5: Broodstock Multiplication Centre (BMC) and Nucleus Breeding Centre (NBC) for Shrimp broodstock development and SPF seed production | Dr. S. Kandan Director, Rajiv Gandhi Centre for Aquaculture (RGCA) |
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| 06:20PM - 06:35PM | 6: Population medicine in aquaculture - Principles and practices of Aquaculture Medicine for aquatic animal health workers | Prof. I. S. Bright Singh NCAAH, CUSAT |
| 06:35PM - 07:15PM | Discussion | |
| 07:15PM - 09:00PM | DINNER | Poster viewing and evaluation/ Networking |
| DAY 3 | Janus | ary 18, 2025 Saturday |
| | Session 6. Policies, regulations, and Implementations | Chair: Dr. A.S. Ninawe Principal Scientist (Retd.) Department of Biotechnology, Government of India Co-Chair: Dr. S. Kandan Director, Rajiv Gandhi Centre for Aquaculture (RGCA) |
| | Keynote address | |
| 09:30AM - 09:50AM | Policies, regulations and Implementations in Aquaculture Medicine and Aquatic Animal Health Management - For inclusive development | Dr. Rohana Subasinghe Chief of Aquaculture (Retired), FAO-UN Co-founder and Director, Future Fish, UK |
| | Invited talks | |
| 09:50AM - 10:05AM | 1: Aquaculture and Aquatic Animal Health Management Policy for Asia-Pacific | Dr. C.V. Mohan Emeritus Scientist, WorldFish |
| 10:05AM - 10:20AM | 2: Policies and regulations on quarantine and certification for transboundary movement of finfish and shellfishes | Dr Jayagopal P. , Deputy Director, MPEDA (Min. of Commerce & Industry, Govt of India), Cochin - 682 036, Kerala, India, |
| 10:20AM - 10:35AM | 3: Analysis of policies and regulations for broodstock development and SPF seed production: practical impediments and necessary amendments | Shri G Rathinaraj Executive Director (Tech), NFDB, Hyderabad |
| 10:35AM - 10:50AM | 4: Practicing aquaculture medicine in the Asia-Pacific context: Regulations and Policies | Dr. V. Kripa Former Member Secretary, CAA, Coastal Aquaculture Authority |
| 10:50AM - 11:05AM | 5: Practical impediments of disease reporting and notification from Asia-pacific | Dr Thitiwan Patanasatienkul Aquatic Animal Health Officer, WOAH |
| 11:05AM - 11:20AM | 6: International Education Programme in Precision Aquaculture and Aquatic Animal Health Management. | Prof. IS Bright Singh NCAAH, CUSAT |





| 11:20AM -11:50AM | Discussion | |
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| 11:50AM - 12:05PM | Tea/Coffee break | Poster viewing and evaluation/ Networking |
| 12:05PM - 01:00PM | Farmers' interaction | |
| 01:00PM - 02:00PM | Lunch break | |
| 02:00PM - 03:30PM | Panel discussion and | Moderator: Dr Eduardo Leano |
| 02:00FWI = 03:30FWI | consolidation of technical sessions | Deputy Moderator: Prof. Sophie ST-HILAIRE |
| | Panelists | Dr. Sahul Hameed Dr. Subhendu Kumar Otta Dr. Neeraj Sood Dr. P.K. Patil Dr. Rohana Subasinghe Prof. J.M.P.K. Jayasinghe Dr. B. Santhosh Dr David Verner-Jeffreys Dr. C.V. Mohan Dr Thitiwan Patanasatienkul Dr. V. Kripa Prof. Valsamma Joseph |
| | Topic: Aquatic Medicine and Aquatic Animal Health Management as part of one Health: Framing Policies for Asia-Pacific in Research, Extension and Education for managing disease burden and attaining sustainability | Policies for: 1. Education 2. Employment at different levels 3. Marketing and trade 4. Culture environment 5. Disease transmission and control 6. Medicine in Aquaculture 7. One Health |
| 03:30PM - 05:00PM | Valedictory of AQUAMAP25 & NCAAH Silver Jubilee Observance | |

