

## 14<sup>th</sup> AFAF Technical Session Details

### Keynote and Plenary Presentations

<b>Sl. No.</b>	<b>Speakers</b>	<b>Title of Presentation</b>
<b>Keynote Speaker Presentaion</b>		
1.	<b>S. Ayyappan</b> Former Secretary, DARE & DG, ICAR	IndFish To-2030
<b>Plenary Speaker Presentations</b>		
1.	<b>Essam Yassin Mohammed</b> Director General, WorldFish, Jalan Batu Maung, Batu Maung, 11960 Bayan Lepas, Penang, Malysia	-
2.	<b>Neil Loneragan</b> President, AFS and Professor, Murdoch University, Perth, Australia	Blue Growth in Capture Fisheries: The Significance of Ecosystem, People-Centred and Partnership Approaches
3.	<b>Shakutala Thulstead</b> Director for Nutrition, Health and Food Security Impact Area Platform, CGIAR	-
4.	<b>Jun Zou</b> and Junya Wang Professor, College of Fisheries and Life Science, Shanghai Ocean University, China	The Function and Application of Interferons in Controlling Viral Diseases in Aquaculture
5.	<b>Matthew Camilleri</b> Leader, Global and Regional Processes (Fisheries), Technical Secretary, Agreement on Port State Measures, Fisheries and Aquaculture Division, FAO, Rome	Implementing International Instruments to Combat IUU Fishing and Achieve Sustainable Fisheries

## TS-1: Resource Assessment and Management for Sustainable Fisheries

Abstract No.	Title	Authors	Mode
	The State of Fisheries in Asia Pacific: How to Improve Fisheries Sustainability in Asia Pacific?	<b>Rishi Sharma</b> Fishery and Aquaculture Policy and Resources Division, Food and Agricultural Organization, Rome, Italy	Lead Speaker
TS-1-001	The Fishery Performance Assessment Tool (FPAT): Identifying Key Management Procedures to Sustain Red Snapper Fisheries in the Arafura Sea	S. Agustina, D.D. Kembaren, K. Kasim, P. Ningtias, A.R. Gumelar, F. Sutyawan, R. Mulyana and G.H. Perdanahardja	Oral
TS-1-002	Growing Fish Invasions in Inland Waters Call for Immediate Management Measures	Atul K Singh	Oral
TS-1-003	Sustainability Challenges with Spatio-temporal and Biological Dynamics of Moonfish ( <i>Mene maculata</i> ) Fisheries in Southwestern Taiwan Waters	Ipsita Biswas, Ming-AN, Lee, Yi-Chen Wang, and S. Mondal	Oral
TS-1-004	Disappearance of Kholsi ( <i>Trichogaster/Colisa</i> sp.) Fish from Kholsi Beel: Unraveling the Impact of Unscientific Management in a Floodplain Wetland of Ganga Basin	Ranjan Kumar Manna, Suman Kumari, Lianthuamluaia Lianthuamluaia, Pritijyoti Majhi, Sandhya Kavitha Mandhir, Dharmendra Kumar Meena, Hemanta Chowdhury, Md. Aftabuddin, Subrata Das, Yousuf Ali and Basanta Kumar Das	Oral
TS-1-005	Holistic Analysis of Ichthyofaunal Diversity, Exploitation Levels, and Production in the Ganges River	J. Canciyal, B.K. Das, D. Bhakta, H.R. Mitesh, Archisman Ray and Shreya Roy	Oral
TS-1-006	Breeding Phenology and Population Response to Climate Variability in Asian Leaf Fish ( <i>Nandus nandus</i> ): Insights for Sustainable Management in the Lower Gangetic Floodplains	Suman Kumari, L. Lianthuamluaia, S. Debnath, G. Karnatak, P. Mishal, U.K. Sarkar and B.K. Das	Oral
TS-1-007	Assessing Species Resilience in Karnataka's Trawl Fishery: An Evaluation of Key Factors	Sujitha Thomas, K.M. Rajesh, Sunil Kumar Ail, G.B. Purushotamma, V. Mahesh, Divya Viswambharan and Bindu Sulochanan	Oral
TS-1-008	Navigating Troubled Waters: Indian Ocean Humpback Dolphins at the Intersection of Dolnet Fishing and Coastal Development in Megacity Mumbai, India	S. Abuthagir Iburahim, Zaheer Abbas, M.R. Ashpel Mano, Rajesh Kumar, Bharda Sheetal Kanubhai,	Oral

		Asha T. Landge and Karankumar Ramteke	
TS-1-009	Length-Weight Dynamics and Biology of Wolf Herring from Andhra Pradesh	H.M. Manas, Indira Divipala, M. Muktha, Mamidi Satishkumar, Joe K. Kizhakudan and Shubhadeep Ghosh	Oral
TS-1-010	Fishery, Biology and Population Dynamics of <i>Metapenaeus monoceros</i> from Andhra Pradesh, India	Indira Divipala, H.M. Manas, Gyanaranjan Dash, Rajan Kumar, M. Muktha, Joe K. Kizhakudan, K. Gouri Sankara Rao and A.P. Dineshbabu	Oral
TS-1-011	Carbon Sequestration from Floodplain Wetlands in West Bengal, India in Context of Global Warming and Climate Change	Subir Kumar Nag, Bandana Das Ghosh, Sanjeet Debnath, Uttam Kumar Sarkar and Basanta Kumar Das	Oral
TS-1-012	Diet Characteristics and Seasonal Prey Trophic Guild Structuring in Bombay Duck, <i>Harpadon nehereus</i> off Mumbai Coast, Maharashtra, India	Shobha Rawat, Karan Kumar Ramteke, S. Monalisha Devi, Asha T. Langde and A.K. Jaiswar	Oral
TS-1-013	Status and Trends of the Blue Swimming Crab Fishery in Palk Bay on the Southeast Coast of India	M. Rajkumar, R. Saravanan, M. Kavitha, K. Shanmuganathan, R. Rajkumar, Midhun Muthayan, S. Joseph Jegan and Shoba Joe Kizhakudan	Oral
TS-1-014	Enhancing Fisheries Through Waste Water Management - The EKW Perspective	S. Samanta, B.K. Das, K. Bisai, S. Dalal, A. Majumder, R. Sahoo, G. Karnatak, L. Lianthuamluaia, V. Kumar, P. Mishal and A.K. Das	Oral
TS-1-015	Integrating Machine Learning Models for Optimizing Ecosystem Health Assessments Through Prediction of Nitrate-N Concentrations in the Lower Stretch of Ganga River, India	Sanatan Paul, Basanta Kumar Das, Biswajit Mandal, Pranab Gogoi, Liton Paul, Ajoy Saha, Canciyal Johnson, Akanksha Das, Archisman Ray, Shreya Roy and Shubhadeep Das Gupta	Oral
TS-1-016	Length-Weight Relationship and Reproductive Biology of the Largescale Mullet <i>Planiliza macrolepis</i> (Smith, 1846) from the Malabar Coast of India	V. Mahesh, P.K. Asokan, K. Vinod, N.R. Kalavathi, T.M. Najmudeen, M. Vijisha and P.V. Gopalan	Oral
TS-1-017	Bottom Trawl Selectivity of 35 mm Square and Diamond Mesh Cod-Ends for <i>Loligo duvaucelli</i> (Orbigny, 1848) from the East Coast of India	G. Kamei, R. Raghu Prakash and U. Sreedhar	Oral
TS-1-018	Economic Efficiency and Characterization of the Small-Scale Jellyfish Fishery in the	Subal Kumar Roul, S.S. Raju, Pralaya Ranjan	Oral

	Northwestern Bay of Bengal: A Case Study from the Odisha Coast	Behera, Phalguni Patnaik and Raju Saravanan	
TS-1-019	Habitat Preferences of Blue Marlin ( <i>Makaira nigricans</i> ) in the Arabian Sea	S. Surya, E.M. Abdussamad, T.L. Asha, B. Santhosh, B.B. Nayak, K.G. Mini, R. Karankumar, J.H. Kingsly, P.G. Ambarish and R. Prathibha	Oral
TS-1-020	Insights into the Reproduction of the Indian Mackerel <i>Rastrelliger kanagurta</i> (Cuvier 1833) in the Western Visayan Sea	M. Jeric Prince Ladores, A. Karen Villarta-Lane, B. Alexanra Regalado and L. Wilfredo Campos	Oral
TS-1-021	Evaluating the Stock Health Status of the Crucifix Crab, <i>Charybdis feriata</i> (Linnaeus, 1758) in the Indian Waters: A Regional Analysis	Gyanaranjan Dash, A.P. Dineshbabu, Jose Josileen, Swatipriyanka Sen, K. Joe Kizhakudan and G. Maheswarudu	Oral
TS-1-022	Stock Assessment of Indian Marine Fishery Resources - Interweaving Methods and Inventing a Path to Sustainable Framework	J. Jayasankar and A.R. Anuja	Oral
TS-1-023	Optimizing Maximum Sustainable Yield (MSY): Compensating for Environmental Variability and Impacts	Rajan Kumar, Shikha Rahangdale, Vinaya Kumar Vase, Jayshree Gohel and Ratheesh R. Kumar	Oral
TS-1-024	Charting the Course of Capture Fisheries Research in India: An Analysis of Research Presented at the Indian Fisheries Forums	M. Muktha, K.V. Akhilesh and P.S. Arun Surendran	Oral
TS-1-025	Integrating Fisheries into Watershed Development: A Pathway to Sustainable Livelihoods in India	D.K. Meena, B.K. Das, M.S. Behera, S.P. Kamble, A. Pandit, S. Kumar and S. Dutta	Oral
TS-1-026	Harmonious Coexistence: Adopting A Natural Agricultural Perspective in Fish Farming	D.K. Meena, B.K. Das, A.K. Das, A.U. Muzaddadi and A.K. Sahoo	Oral
TS-1-027	Fishery, Biology and Growth Traits of The Narrow-Barred Spanish Mackerel, <i>Scomberomorus commerson</i> Off Gulf of Mannar, India	R. Vinothkumar, V. Vidhya, M. Kavitha, L. Ranjith, L. Remya, K. Shanmuganathan and Shoba Joe Kizhakudan	Oral
TS-1-028	Molecular Identification and Reproductive Biology of <i>Salmo Trutta</i> (Brown Trout) in High Altitude River Tons, Uttarakhand: A First Record	Saurav Kumar Nandy, Arghya Kunui, Basanta Kumar Das, Amiya Kumar Sahoo and Dharmendra Kumar Meena	Oral
TS-1-029	Fish Diversity, Assemblage and Seasonal Abundance Structure Along the Tidal Dominated River Matla of Indian Sundarbans	Archisman Ray, Pradyut Malakar, Arka Mondal, Ayan Biswas, Rani Sadhukhan, Liton Paul, Canciyal Johnson, Dibakar Bhakta and Basanta Kumar Das	Oral
TS-1-030	Assessment of Fisheries and Socio-Economic Profile of the Harike Wetland System	A. Saikia, G. Tewari, S.N. Datta and P. Singh	Oral

TS-1-031	Assessment of Water Quality of River Sutlej: The Longest Tributary of Indus River System	S. Kaur, P. Singh, J.S. Bedi, G. Tewari and S.N. Datta	Oral
TS-1-032	Conservation and Sustainable Utilization of Floodplain Wetland Fisheries of North-Eastern India Amidst Emerging Issues	B.K. Bhattacharjya, A.K. Yadav, P. Das, S.C.S. Das, S. Borah, N. Sarma, R. Kumar, S.K. Majhi and B.K. Das	Oral
TS-1-033	Inland Openwater Fisheries Resources of Northeast India: Implication for Sustainable Management on Production Enhancement and Conservation	Sullip Kumar Majhi, Pronob Das, Shyamal Chandra Sukla Das and Basanta Kumar Das	Oral
TS-1-034	Fine-Tuning of CIFT-Turtle Excluder Device for Selective Shrimp Trawling in India	M.P. Remesan, V.R. Madhu, Paras Nath Jha and R. Raghu Prakash	Oral
TS-1-035	Population Structure and Biology of Obtuse Barracuda, <i>Sphyraena obtusata</i> Cuvier 1829 (Sphyraenidae) in the South-Eastern Arabian Sea	C. Anulekshmi, M. Vijisha, K.V. Akhilesh, E.M. Abdussamad and Shoba Joe Kizhakudan	Oral
TS-1-036	Ontogenetic and Seasonal Shifts in Habitat and Diet of a Deepwater Snapper <i>Pristipomoides filamentosus</i> Along the South-West Coast of India	Livi Wilson, T.M. Najmudeen, S. Pakkrimuthu and Shoba Joe Kizhakudan	Oral
TS-1-037	Growth Traits of Six Deep-Sea Fishes from the Southeastern Arabian Sea: Implications for Database Enhancement and Fisheries Management	N.K. Suyani, Abhijith Mohan, A. Kathirvelpandian, T.T. Ajith Kumar and U.K. Sarkar	Oral
TS-1-038	Diversity Status of Deep-Sea Fishes from Indian Waters Inferred Through Meta-Analysis	M. Bincy Raj, N.K. Suyani, A. Ahamed Rasheeq, E.R. Sangamithra, S.N. Kamalini, Abhijith Mohan, A. Kathirvelpandian, T.T. Ajith Kumar and U.K. Sarkar	Oral
TS-1-039	Forecasting Fisheries: Time-Series Insights into Landings of Indian Major Carps in Brahmaputra River of India	Anil Kumar Yadav, Simanku Borah, Rakesh Kumar, B.K. Bhattacharjya, S.K. Majhi and B. K. Das	Oral
TS-1-040	Status and Prospects of Scampi Production in Reservoirs in Telangana	Ramesh Rathod, N. Praveen and B.R. Pillai	Oral
TS-1-041	Hydrogeochemical and Chemometric Assessment of Water Quality in Bhojtal Wetland, India: A Ramsar Site	Rakesh Kumar, Sangeeta Lenka, Simanku Borah, Anil Kumar Yadav, Dhruva Jyoti Sarkar, Sullip Kumar Majhi and B.K. Das	Oral
TS-1-042	Technological Innovations in Inland Fisheries Harvesting: Advancements in Traps, Lines, Baits and Modern Methods for Sustainable Fishery Practices	U. Sreedhar, R. Raghu Prakash, G. Kamei and K. D. Rukhmangadhar	Oral
TS-1-043	The Fishery and Trends of Sacred Chank ( <i>Turbinella pyrum</i> ) in the Gulf of Mannar, Southeast Coast of India	M. Kavitha, M. Rajkumar, L. Ranjith, R. Vinothkumar and Geetha Sasikumar	Oral

TS-1-044	Biometry and Seasonal Size Distribution of Two Medusa <i>Crambionella annandalei</i> and <i>Chrysaora</i> spp. Along the Coast of Andhra Pradesh, Western Bay of Bengal	Pralaya Ranjan Behera, Raju Saravanan and Suresh Kumar Pilli	Oral
TS-1-045	Evaluation of Economic Impacts of Trawl on Juvenile (Finfish and Shellfish) By-Catch Along the Coast of North Andhra Pradesh, India	Pralaya Ranjan Behera, Muktha Menon, M. Satish Kumar and Suresh Kumar Pilli	Oral
TS-1-046	Invasion of Exotic Fishes in Natural Water Bodies of Peninsular India	V.S. Basheer, Charan Ravi, Tarachand Kumawat and U.K. Sarkar	Oral
TS-1-047	Growth Patterns and Feeding Dynamics of the Critically Endangered <i>Hemibagrus punctatus</i> in the Cauvery River, Western Ghats, India	Vedika Masram, Charan Ravi, V.S. Bahseer, P.R. Divya, T.T. Ajith Kumar and Uttam Kumar Sarkar	Oral
TS-1-048	Assessing the Ichthyofaunal Diversity and Seasonal Variation of Fish Assemblages Associated with Trawl Catches of Nagapattinam Fishing Harbour, Southeast Coast of India	K. Karupassamy, N. Jayakumar and S. Pearlin Arul Granap	Oral
TS-1-049	Impact of Non-Selective Dolnet Fishing on Juvenile Fish Populations in Coastal Maharashtra	Rajesh Kumar, Karankumar Ramteke, Binaya Bhusan Nayak, Asha T. Landge, Abuthagir Ibrahlim, Sheetal K. Bharda and Vipul Singh Badguzar	Oral
TS-1-050	Assessment of Biomass Indices for Managing Small-Scale Dolnet Fisheries Along the Mumbai coast	Dayal Devadas, Karankumar K. Ramteke, Shashi Bhushan, Sukam Monalisha Devi and Asha T. Landge	Oral
TS-1-051	Marine Mammal Strandings and Bycatch in Fishing Gears along the North-Eastern Coast of India	L. Loveson Edward, M. Srihari, Pralaya Ranjan Behera, H.M. Manas and R. Ratheesh Kumar	Oral
TS-1-052	Case Study on Jellyfish Bloom Biomass Quantification and Its Impact Analysis in the Commercial Trawl Fishing Ground of Daman Coast, Arabian Sea, India	Sugumar Ramkumar, Vaibhav Dinkar Mhatre, Punam Ashok Khandagale, Umesh Hari Rane, Vaibhav Tawde, Venkatesan Vellathi, Lakshmanan Ranjith and Raju Saravanan	Oral
TS-1-053	Length-Weight Relationship, Condition Factor and Feeding Biology of the Shrimp Scad, <i>Alepes djedaba</i> (Forsskal, 1775) Along the Uttara Kannada Coast of Karnataka	S. Praveen, A.S. Kumar Naik, V. Mahesh, H.N. Anjanayappa, S.R. Somashekara, A.T. Ramachandra Naik and N.R. Kalavathi	Oral
TS-1-054	Assessment of Spawning Seasonality of the Shrimp Scad, <i>Alepes djedaba</i> (Forsskal, 1775) off the Coast of Karnataka, India	S. Praveen, A.S. Kumar Naik, V. Mahesh, H.N. Anjanayappa, S.R. Somashekara, A.T.	Oral

		Ramachandra Naik and N.R. Kalavathi	
TS-1-055	Sperm Whales in Indian EEZ: Distribution, Abundance and Habitat Suitability	R. Ratheesh Kumar, J. Jayasankar, E. Vivekanandan, R. Jeyabaskaran, K.R. Sreenath, Grinson George and A. Gopalakrishnan	Oral
TS-1-056	Mapping of Salt Affected Lands Using Google Earth Engine and Machine Learning Techniques in Ramanathapuram District, Tamil Nadu, India	M. Samynathan, M. Jayanthi, S. Thirumurthy and P.S. Akshay	Oral
TS-1-057	Predator-Prey Size Relationships among Marine Finfishes: Interspecific Variations in Selected Finfish Species from Southeastern Arabian Sea	T.M. Najmudeen, P.K. Seetha, Suhaila Fathima, S. Pakkirimuthu and Shoba J. Kizhakudan	Oral
TS-1-058	Gametogenesis, Spawning and Spatfall of the Brown Mussel <i>Perna indica</i> (Kuriakose and Nair, 1976) from South Kerala	P. Gomathi, M.K. Anil, P.M. Krishnapriya, O. Shalini and Geetha Sasikumar	Oral
TS-1-059	Microplastic Ingestion and Feeding Strategies in Fishes from the Creeks of Northeastern Arabian Sea	Abhijit Mallik, Shashi Bhushan and Binay Bhushan Nayak	Oral
TS-1-060	Mass-Balance Model of a Small Young Sub-Tropical Reservoir: An Implication for Sustainable Fisheries Management using Ecopath with Ecosim	Yumnam Bedajit, Sanjenbam Bidyasagar, Sushma Keisham and Gusheinzed Waikhom	Oral
TS-1-061	Effect of Long-Term Exposure of Cypermethrin During Breeding Season of <i>Cyprinus carpio</i> in Captivity	Aditya Kumar, Chandrabhushan S. Nishad, Nidhi Bhagat, Raghvendra Singh, Monika Gupta and U.K. Sarkar	Oral
TS-1-062	Insights from Experimental Trawling: Species Composition and Spatio-Temporal Dynamics of Fisheries Resources off the Mumbai Coast	Karankumar K. Ramteke, Latha Shenoy, Pankaj Prasad, B.B. Nayak, Geetanjali Deshmukhe, Arun B. Inamdar and V.V. Singh	Oral
TS-1-063	Multi-Model Approach to Compute Potential Yield (PY) for the Marine Fishery Resources of Gujarat	Vinaya Kumar Vase, Rajan Kumar, Shikha Rahangdale, Abdul Azeez, Mohammed Koya, P.S. Swathi Lekshmi, Jayasankar Jayaraman and Prathibha Rohit	Oral
TS-1-064	Assessment of Water Quality of River Sutlej: The longest tributary of Indus River System	S. Kaur, P. Singh, J.S. Bedi, G. Tewari and S.N. Datta	Oral
TS-1-065	Understanding the Sustainability and Exploitation Pattern of Data-Limited Small-Scale Wetland Fisheries, Brahmaputra Basin, India	Pritam Das, Asha T. Landge, B.B. Nayak, Karankumar Ramteke, Prastuti Saikia and Simanku Borah	Oral
TS-1-066	New Approaches to Assessing and Managing the Multispecies Fishery in Thai Waters of the Gulf of Thailand	P. Noranarttragoon, N. Kulanjaree, O. Presertsook, W. Thitipongtrakul, D.	Oral

		Staples, E.A. Fulton and K. Sainsbury	
TS-1-067	Informing Sustainable Management of Multi-Species Fisheries using Fish Biology, Population Genomics and Fishery Policies	Mayuresh Gangal, Rohan Arthur, Venkatachalam Suri, Awadhesh Pandit, Abhinav Tyagi, Praveen Prakash, Mihir Sule, Irvateer Majgaonkar, Jagdish Krishnaswamy and Uma Ramakrishnan	Oral
TS-1-068	Assessment of Low Value Trash Fishes Landing and Utilisation from Major Fish Landing Centres in Coromandel Coasts of India	K. Subramanian and C. Stella	Oral
TS-1-069	Enhancing Local Community's Participation in Coastal Resource Management through Ecotourism Development in Northern Luzon, Philippines	Emma L. Ballard, Yoshinori Morooka and Teruyuki Shinbo	Oral
TS-1-070	Sardines Fishery in the Coastal Waters of San Vicente, Northern Samar	N. Alig, Gañoso, A. Cabacang, S. Gabona and E. Vista	Oral
TS-1-071	Recruitment Pattern and Exploitation Rate of Mangrove Crabs ( <i>Scylla serrata</i> , Forskal, 1775) in the Coastal Waters of Northern Samar, Philippines	Evelyn B. Vista, Maria Rechielyn E. Enero, Saula F. Gabona, Ralph Aivan Leen B. Vista and Miriam F. Amigo	Oral
TS-1-072	Morphological Plasticity in <i>Garra mullya</i> (Sykes, 1839): A Case Study from the Rivers of Maharashtra	B.R. Sushmitha, Sukham Monalisha, Sangeeta Mandal, Dayal Devadas, T.M. Jeevan, Swati Choudhary, Shobha Rawat, Sangeeta Beck and Lata Tandel	Oral
TS-1-073	Feeding Guild Structure of Fish Community in the Middle Stretch of the Ulhas River, Maharashtra	Sangeeta Beck, Sukham Monalisha, Shobha Rawa, Swati Choudhary, Sangeeta Mandal, Dayal Devadas and B.R. Sushmitha	Oral
TS-1-074	Comparative Study of Fuel Use, Environmental Burden and Global Warming Potential of Constructional and Operational Inventories in Mechanized and Small-Scale Fishing Systems Along Indian Coast using Life Cycle Assessment Approach	Paras Nath Jha, M.V. Baiju, N. Manju Lekshmi, R. Raghu Prakash, Shravan Kumar Sharma, K.M. Sandhya, R.K. Renjith, Leela Edwin and George Ninan	Oral
TS-1-075	Evaluating Ecosystem Stability of Gayatri Reservoir in Karnataka, India Using a Steady State Trophic Model for Culture-Based Fisheries	Preetha Panikkar, Ajoy Saha, P.K. Jesna, M.E. Vijaykumar and B.K. Das	Poster
TS-1-076	Stock Structure Analysis and Reproductive Biology of <i>Rita rita</i> (Hamilton, 1822) Along	Asifa Najnin, Imtiaz Ahmed, Rinku Gogoi, Jiten Sarma and Rinchen Bhutia	Poster



	the Middle Stretch of Brahmaputra River System Using Truss Network Analysis		
TS-1-077	Status of Ichthyofaunal Diversity and Seasonal Physico-Chemical Variations of Charipunia Beel of Morigaon District, Assam	Bhagyashree Das, Rinku Gogoi and Jiten Sarma	Poster
TS-1-078	Composition of Fish Catch by Fisheries Co-operative Society Dari Bhari, Gobind Sagar Reservoir, Himachal Pradesh, India	Krishan Lal	Poster
TS-1-079	Enhancing Seaweed Monitoring Along the North-West Coast of India Using Remote Sensing Indices: A Preliminary Image Processing-Based Approach	Prachi Siddharth Bagde, D. Divu, Suresh Kumar Mojjada, D. Bhavana, D. Venkata Ratnam, P. Abdul Azeez, P.S. Swathi Lekshmi, Aarsha Subramanian, Rooha Tej, G. Jyothi Swaroop, Mayur S. Tade, T.S. Ramshad, J. Dhanush, Jayesh Devaliya, Sagar Jadav, V.V.R. Suresh and A. Gopalakrishnan	Poster
TS-1-080	Assessment of Different Maturity Stages Through Gonadal Histology and Biochemical Constituents in Goldlined Seabream, <i>Rhabdosargus sarba</i>	P. Ezhil, T. Senthil Murugan, Dani Thomas, Aritra Bera, G. Thiagarajan, R. Nanthini and M. Kailasam	Poster
TS-1-081	Brackishwater Seaweed Farming Site Selection in Thiruvallur District Coastal Sub-Watershed Using MCDM Method for Coastal Farmers' Livelihood Development	R. Nishan Raja, P. Nila Rekha, R. Aravind, R. Jayakumar, S. Aravind Kumar and C.P. Balasubramanian	Poster
TS-1-082	Diving Fisheries in West Central Philippines: Species Composition, Seasonal Patterns and Economic Value	Karen A. Villarta-Lane, Lorelie A. Burgos-Nuñeza and Annabelle G.C. del Norte-Campos	Poster
TS-1-083	Fishery, Morphometrics, Length-Weight Relationships and Size at Maturity in <i>Charybdis (Charybdis) lucifer</i> (Fabricius, 1798) from Southeastern Arabian Sea	Jose Josileen, A.P. Dineshbabu, T.M. Najmudeen, T. Retheesh, M.T. Vijayan, K.T.S. Sunil, L. Sreesanth, N. Ragesh and Sindhu Augustine	Poster
TS-1-084	Revolutionizing Marine Fisheries Data Access: An AI-Powered Natural Language Interface	J. Jayasankar, V.K. Manu, Eldho Varghese, Sindhu Augustine, Sijo Paul and R. Manjeesh	Poster
TS-1-085	On an Approach to Moderate, Ugment and Synthesise Estimates of Commercial Fish Production from Multiple Sources	Sijo Paul, K.G. Mini, Eldho Varghese, Sindhu K. Augustine, Somy Kuriakose, R. Manjeesh, D. Pugazhendhi, V.K. Manu and J. Jayasankar	Poster

TS-1-086	Fish Community Structure in Accordance with Environmental Signatures in Tropical River Ecosystem, Eastern Himalayan Eco-Region	Shamyung O. Ongh, Asha Taterao Landge, Karankumar Ramteke and Simanku Borah	Poster
TS-1-087	Studies on Gut Content Analysis of Spineless Cuttlefish, <i>Sepiella inermis</i> (Van Hasselt, 1835) in Mangaluru, Southwest Coast of India	H.U. Shruthi, Geetha Sasikumar, S.R. Somashekara, H.N. Anjanayappa and A.S. Kumar Naik	Poster
TS-1-088	Emerging Importance of Leatherjackets, Triggers and Surgeon Fish in the Fishery Along North Tamil Nadu Coast	S. Gomathy, Shoba Joe Kizhakudan, Livi Wilson and T. Balaraman	Poster
TS-1-089	Biometric Characterization and Stock Status of <i>Pila globosa</i> from Kanwar Lake – A Ramsar Site in Bihar, India	Bharti Sahu, H.S. Mogalekar, P.P. Srivastava, Sujit Kumar Nayak and R.K. Brahmachari	Poster
TS-1-090	Morphology of Statoliths in Cephalopods (Mollusca) from the Indian Waters as a Tool for Species Identification	K.K. Sajikumar, Geetha Sasikumar, V. Venkatesan, R. Vidya, K.M. Jestin Joy and K.S. Mohamed	Poster
TS-1-091	Diet Composition of Pharaoh Cuttlefish <i>Acanthosepion pharaonis</i> (Cephalopoda: Sepiidae) Along the Eastern Arabian Sea	Geetha Sasikumar, K.K. Sajikumar, S.P. Karamathullah and Prathibha Rohit	Poster
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TS-2-053	Reviving a Rare Species: Captive Breeding of the Endemic Western Ghats Catfish, <i>Ompok malabaricus</i>	Charan Ravi, C.P. Abhilash, K.R. Saikrishnan, V.S. Basheer and U.K. Sarkar	Oral

TS-2-054	Co-Culture System of <i>P. vannamei</i> and <i>Gracilaria</i> : Enhanced Nutrient Uptake and Sustainability in Aquaculture	G. Harini, Madhuri S. Pathak, Kapil S. Sukhdhane and Thongam Ibmcha Chanu	Oral
TS-2-055	Resolving Livefeed Issues in Marine Ornamental Fish Seed Production	B. Santhosh, Ambarish P. Gop, Krishna Sukumaran, G. Rathi Bhuvanewari, A. Anuraj, K. Madhu, Boby Ignatius, Imelda Joseph, Muhammed F. Anzeer, K.S. Aneesh, A.R. Akhil, Dispin Das, J.S. Ajimi, Muhammed Arshadudeen, Jose Kingsly, V.A. Leslie, V.R. Suresh, A. Gopalakrishnan and Grinson George	Oral
TS-2-056	Enhancing the Pigmentation, Growth and Survival of Koi Carp, <i>Cyprinus carpio var.</i> Koi Carp Through Dietary Astaxanthin	C.K. Misra, S. Banchhod, A. Mishra, S.K. Swain, H. Swain and P.C. Das	Oral
TS-2-057	Growth and Nutritional Profile of Marine Microalgae, <i>Chaetoceros calcitrans</i> Under Different Water pH Conditions in Indoor Experiments	D. Linga Prabu, L. Ranjith, D. Saratha Priya, L. Sivalingam, A.P. Dineshbabu, Kajal Chakraborty and Grinson George	Oral
TS-2-058	Techno-Economic Viability of Asian Seabass ( <i>Lates calcarifer</i> ) Nursery Rearing Systems	R. Subburaj, M. Kailasam, K. Ambasankar, R. Jayakumar, M. Kumaran, Aritra Bera, Dani Thomas, G. Thiagarajan and Kuldeep K. Lal	Oral
TS-2-059	Exogenous GTHS Administration to Elucidate Environmental-Endocrine Relation on Gonadal Maturation in <i>Clarias magur</i> (Hamilton, 1822)	Uppalanchi Prasanna Laxmi, Kapil Sukhdane, T.I. Chanu, Munilkumar Sukham, Dhalongsai Reang and Kamil Akamad	Oral
TS-2-060	Captive Maturation and Induced Breeding of Peacock Eel, <i>Macrogathus aral</i> for Conservation and Aquaculture Diversification	Prem Kumar, Munilkumar Sukham, Rupam Sharma and Kedar Nath Mohanta	Oral
TS-2-061	Decadal Trends in Finfish and Shellfish Seed Production Status, Innovations, and Challenges in Inland and Maritime States in India	Debajit Sarma	Oral
TS-2-062	Development of Culture Method for the Wild Polychaete Worm, <i>Perinereis nuntia</i> collected from the Mandapam Sea Shore Area	S. Kannappan, P. Atchuthan, R. Jayakumar, A.K. Abdul Nazar, C.P. Balasubramanian, R. Aravind and Kuldeep K. Lal	Oral

TS-2-063	Impact of Organic and Inorganic Fertilizers on Biomass Production, Proximate Composition, Bioactive Compounds, and Antioxidant Activities of Watermeal ( <i>Wolffia globosa</i> )	Nitesh Kumar Yadav, Arun Bhai Patel and Sampa Baidya	Oral
TS-2-064	Early Life-History Traits of Upside-Down Jellyfish <i>Cassiopea xamachana</i> : Insights from Experimental and Field Studies	L. Ranjith, R. Saravanan, K.S. Sobhana, S. Ramkumar, C. Kalidas, D. Linga Prabhu, M. Kavitha, D. Sarathapriya, P. Nevathitha, A. Mathan Babu, L. Loveson Edward and G. Grinson	Oral
TS-2-065	Cellular and Molecular Insight to the Vitellogenesis of Black Tiger Shrimp, <i>Penaeus monodon</i>	D.L. Mohanlal, C.P. Balasubramanian, J. Merlin, P.S. Shyne Anand, Sherly Tomy, R. Aravind, Raymond Jani Angel, K.K. Vijayan and Kuldeep Kumar Lal	Oral
TS-2-066	Standardization of an Intermittent Flow-Through Respirometer for Assessing Aerobic Performance in Fish	Jebarson Solomon, B. Veeramaruthu, Manchi Rajesh, Vishavjeet Singh, Sanjay Singh Bisht, Tincy Varghese, Kedarnath Mohanta and Biju Sam Kamalam	Oral
TS-2-067	Induced Breeding and Nursery Rearing of Organic Silver Barb, <i>Puntius gonionotus</i> , (Bleeker 1850) in Cement Tank	S.N. Sethi and A.P. Nayak	Oral
TS-2-068	Effect of Chronic Crowding Stress on Growth, Haematology and Serum Biochemistry of <i>Pangasianodon hypophthalmus</i> (Sauvage, 1878) Fingerlings	Sonali Kumari, Sujata Sahoo, Dilip Kumar Singh and Kedar Nath Mohanta	Oral
TS-2-069	Redefining Seaweed Farming with Custom Designed Rafts Engineered for High-Tidal Amplitude Zones: A Case Study on Production Assessment along Indo-Pak Border Marine Sites with Validation	Suresh Kumar Mojjada, D. Divu, P.S. Swathi Lekshmi, P. Abdul Azeez, S. Mayur Tade, Jayesh Devaliya, Sagar Jadhav, Aarsha Subramanian, Prachi Bagde, J. Dhanush, T.S. Ramshad, V.V.R. Suresh and Grinson George	Oral
TS-2-070	ICAR-CIBA Initiatives to Popularize Brackishwater Finfish Farming Towards Species Diversification	M. Kailasam and Kuldeep K. Lal	Oral
TS-2-071	Precision Breeding and Management of Koi Carp: A Pathway to Self-Reliance and Global Market Leadership	Monika Gupta, Raghvendra Singh, Aditya Kumar, T.T. Ajith Kumar and Uttam Kumar Sarkar	Oral

TS-2-072	Induced Breeding and Larval Rearing of Striped Murrel, <i>Channa striata</i> in Different Refuge Systems	Raghvendra Singh, Aditya Kumar, Monika Gupta, Santosh Kumar, Rajeev Kumar Singh and Uttam Kumar Sarkar	Oral
TS-2-073	Study on Biomineralization and Pearl Formation in Comparison to Different Temperatures in Freshwater Mussel, <i>Lamellidens marginalis</i> (Lamarck,1819)	Sweta Pradhan, Gouranga Biswas, Shailesh Saurabh, Suman Manna, Sukham Munil Kumar, Paramita B. Sawant, Kiran D. Rasal and Tapas K. Ghoshal	Oral
TS-2-074	Site Suitability Assessment of Inland Saline Groundwater Resources Based on Farm Productivity and Ionic Parameters	Jose Antony, R. Saraswathy, M. Muralidhar, J.A.J. Raymond, P.S. Shyne Anand and A. Panigrahi	Oral
TS-2-075	3P3C Model: A Novel Intensive Aquaculture Approach for Maximized Productivity and Profitability	M.D. Aklakur, Ashutosh D. Deo and Gopal Krishna	Oral
TS-2-076	Airlift-Based Recirculating Aquaculture System Design for Energy Efficient Small-Scale Fish Farming: A Multi-Species Validation	Vishavjeet Singh, Biju Sam Kamalam, Pramod Kumar Pandey and Manchi Rajesh	Oral
TS-2-077	<i>Macrobrachium dayanum</i> (Henderson, 1893)-A Potential Candidate Species for Freshwater Aquaculture	Poonam Prakash	Oral
TS-2-078	Stable Isotopic Evidence on Natural Diet of Giant Freshwater Prawns Utilized for Stock Enhancement in Agrarian Reservoirs of Sri Lanka	S.S.U. Silva, Asanka Jayasinghe, K.H.M.A. Deepananda and Clive Jones	Oral
TS-2-079	Impact of Sub-Lethal Iron Exposure on Physiological Responses in <i>Labeo rohita</i> and the Protective Role of Antioxidant Diet	Lopamudra Sahoo, Chandan Debnath, Huiem Bharati, Vinay Singh, Janmejay Parhi and B.U. Choudhury	Oral
TS-2-080	Growth Performance and Water Quality of Indian Major Carps Reared at Different Stocking Density, in an <i>In-situ</i> and Externally Produced Biofloc System	S.S. Mahanand, S. Paul, S. Mallick and A.B. Patel	Oral
TS-2-081	Leveraging Nature-based Solutions to Green the Blue Growth in Asia-Pacific: Lessons from AQUADAPT, a Collaborative Aquaculture Research Program	M. Robertson, R. McMillan, H. Laurenzio and M. Ahmed	Oral
TS-2-082	Growth and Reproductive Performance of Swordtail ( <i>Xiphophorus helleri</i> ) Raised in Inland Saline Waters	Mohit Kamboj, Sachin Onkar Khairnar, Vaneet Inder Kaur and Amit Mandal	Oral
TS-2-083	Ecosystem Dynamics and Mariculture: Unveiling and Mitigating Environmental Impacts and Sustainability Challenges in Indian Coastal Sea Cage Farming	Mayur Shivdas Tade, D. Divu, Suresh Kumar Mojjada, P. Abdul Azeez, P.S. Swathi Lekshmi,	Poster

		Aarsha Subramanian, T.S. Ramshad, Prachi Bagde, Dhanush Janarthanan, Jayesh Devaliya, Sagar Jadav, Boby Ignatius and A. Gopalakrishnan	
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TS-2-085	Captive Spawning and Juvenile Production of Designer Domino Clownfish ( <i>Amphiprion ocellaris</i> )	K. Madhu, Rema Madhu, K.S. Abhilash and Jinu John Joseph	Poster
TS-2-086	Captive Breeding and Seed Production of Lemon Damsel ( <i>Pomacentrus moluccensis</i> (Bleeker, 1853))	G. Rathi Bhuvaneshwari, Ambarish P. Gop, Krishna Sukumaran, A. Anuraj, Muhammed F. Anzeer, K. Aneesh and B. Santhosh	Poster
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TS-2-090	Growth of <i>Magallana bilineata</i> (Röding, 1798): A Comparison of Hatchery Produced Cultched and Cultchless Spat in Grow-Out Culture	Santosh N. Bhendekar, Thakurdas, Ashish Chaturvedi, Sunil Ail, D. Ajay Nakhawa, V. Venkatesan and A.P. Dinesh Babu	Poster
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TS-2-092	Evaluation of Individual Rearing of CIFA-GI Scampi® Broodstock as an Alternate Approach to Group Rearing During the Post-Selection Rearing Phase in its Selective Breeding Program	Tanisha Nayak, D. Panda, N. Naik, S.K. Udgata, D. Choudhury and B.R. Pillai	Poster
TS-2-093	Breaking Thermal Stratification Using an Airlift Aeration System Enhances the Oxygen Profile in Shallow Earthen Ponds	Subhas Sarkar, P.K. Tiwari and Ajmal Hussan	Poster



TS-2-094	Egg Production in Calanoid Copepod <i>Acartia tropica</i> Under Various Rearing Conditions	Boby Ignatius, Jess Maria Wilson and B. Santhosh	Poster
TS-2-095	Effect of Different Carbon Supplements on Growth Performance and Digestive Enzyme Activities of Butter Catfish ( <i>Ompok bimaculatus</i> Bloch, 1794) in Biofloc System	Swapna Behera, P.C. Das, Nathan Felix, Shajahan Ferosekhan, Himansu Sekhar Swain, Saminathan Athithan and Pandurangan Padmavathy	Poster
TS-2-096	Growth Performance and Physiological Response of Butter Catfish ( <i>Ompok bimaculatus</i> Bloch, 1794) During Juvenile Rearing at Varied Densities in Finger Millet Based Biofloc System	Swapna Behera, Pratap Chandra Das, Nathan Felix, Himansu Sekhar Swain, Shajahan Ferosekhan, Saminathan Athithan and Pandurangan Padmavathy	Poster
TS-2-097	Characterization of Bacterial Consortium as Biofloc Inoculum and Assessment of Growth and Disease Resistance of Fish	Anirban Paul, Snatashree Mohanty, Biplab Kumar Sandha, D.K. Verma, K.C. Das, P.K. Sahoo and P. Routray	Poster
TS-2-098	Green Synthesis of High-Performance Bioflocculant from Insect Waste: A Circular Economy Approach in Biofloc Aquaculture	Reshmi Debbarma, Soibam Khogen Singh, Pradyut Biswas and Nayan Chouhan	Poster
TS-2-099	Comparative Evaluation of Production Performance of Pangas Catfish and Mint in an Automated Aquaponic System and Traditional Culture System	Khushvir Singh, Vaneet Inder Kaur, Meera D. Ansal, Dilpreet Talwar, Shanthanagouda Admane Holeyappa, Jaspal Singh Hundal and Kulbir Singh	Poster
TS-2-100	Study on the Feeding Habits of Three Sizes of <i>Scylla paramamosain</i> with Four Types of Shellfish	Yu-Chen Wu, Feng-You Lin, Shou-Chih Hsueh, Chih-Hsun Lin, Su-Wei Hung, Yi-Shun Hu, Hong-Thih Lai and Jinn-Rong Hseu	Poster
TS-2-101	Stocking Density Effects on Larval Development and Survival Rates in Mud Crab ( <i>Scylla serrata</i> ) Rearing	Feng-You Lin, Yu-Chen Wu, Shou-Chih Hsueh, Jin-Fu Liu, Yi-Shun Hu, Jinn-Rong Hseu and Hong-Thih Lai	Poster
TS-2-102	Influence of Water Temperature on the Development of Mud Crab Larvae ( <i>Scylla serrata</i> )	Yu-Chen Wu, Feng-You Lin, Jin Fu Liu, Shou-Chih Hsueh, Su-Wei Hung, Yi-Shun Hu, Jinn-Rong Hseu and Hong-thih Lai	Poster
TS-2-103	Spore Liberation, Germination and Sporeling Development in <i>Gracilaria corticata</i> under Laboratory Settings: A Pilot Study	Reena V. Joseph, K.S. Sobhana, M.B. Sini, Aju K. Raju, L. Sreeshanth, R. Ratheeshkumar, Miriam Paul Sreeram, L. Ranjith and Grinson George	Poster

TS-2-104	Effect of Stocking Density on Cannibalism, Survival and Growth Performance in Silver Pompano, <i>Trachinotus blochii</i> Larviculture	Tanveer Hussain, Ambarish P. Gop, G. Rathi Bhuvaneswari, M.K. Anil, Kurva Raghu Ramudu, C. Kalidas and V.V.R. Suresh	Poster
TS-2-105	Effect of Normal Saline Diluted Wova-FH on Sex Hormones and Haematological Parameters of Indian Major Carps	S.S. Das, D. Choudhury, S. Nanda, S.K. Bhuyan and S.K. Nath	Poster
TS-2-106	Strategies for Reducing Microplastic Accumulation in Shrimp Culture: Lessons from Indian Coastal Aquaculture	Bejawada Chanikya Naidu, M.D. Sahana, Asha T. Landge, Binaya Bhusan Nayak and K.A. Martin Xavier	Poster
TS-2-107	Salinity-Dependent Changes in Branchial Morphometry and Na <sup>+</sup> , k <sup>+</sup> -ATPase Responses of the Giant Grouper ( <i>Epinephelus lanceolatus</i> )	Tzong-Yueh Chen <sup>1</sup> and Sih-Shien Lee	Poster
TS-2-108	Effect of Stocking Densities on Growth Performance of Indian Major Carps Under Short Duration Culture	Hasina Momtaz, Pabitra K. Saharia, Sushanta Borthakur, Kaustubh Bhagawati, Sangipran Baishya, Dipak K. Sarma and Kamaleswar Kalita	Poster
TS-2-109	Effects of Different Carbon Sources on Growth of Freshwater Zooplankton <i>Moina micrura</i> in Biofloc System	Chittaranjan Raul <sup>1</sup> R. Kirubasanakar, K. Saravanan and J. Praveenraj	Poster
TS-2-110	Evaluation of Ideal Conditions for the Optimal Production of <i>Hypnea musciformis</i> in the Brackishwater Ecosystem	P. Nila Rekha, R. Aravind, S. Aravind Kumar, R. Nishan Raja, R. Jayakumar, K. Ambasankar, J. Raymond Jani Angel, P.S. Shyne Anand and C.P. Balasubramanian	Poster
TS-2-111	A Comparative Life Cycle Assessment of Whiteleg Shrimp ( <i>Penaeus vannamei</i> ), Cultured in an Earthen Pond and HDPE Pond Farming System - A Case Study from the West Coasts of India	Trivesh S. Mayekar, V. Paramesha, G.B. Sreekanth, Parveen Kumar and C.U. Rivonker	Poster
TS-2-112	Transforming Waste to Value: Harnessing Organic Fertilizer Extracts to Supplement Mineral Nutrients in Aquaculture Wastewater for Sustainable Production of <i>Channa striata</i> (Bloch, 1793) and <i>Lactuca sativa</i> L. in Aquaponics	V.C. John, A.K. Verma, K.K. Krishnani, S. Munilkumar, T. Varghese and M.H. Chandrakant	Poster

### TS-3: SMART Aquaculture for Resource-use Efficiency

Abstract No.	Title	Authors	Mode
	Aquaponics	<b>Li Daoling</b> International College & National Innovation Center for Digital Fishery, China Agricultural University, Beijing, China	Lead Speaker
TS-3-001	Field Colorimetric Determination of Critical Parameters in Aquaculture Pond Waters of Varying Salinity	M. Muralidhar, M. Dharmadurai, A.S. Nagavel, D. Gopinath, S. Rajeshraj, P. Kumararaja and R. Saraswathy	Oral
TS-3-002	Integrated Farming of <i>Lates calcarifer</i> and <i>Macrobrachium rosenbergii</i> in Aquaponics System: A Sustainable Water Utilization Approach	Ankit Yadav, Jai Gopal Sharma, Guddu Kumar, Pinaki Chakraborty and Rina Chakrabarti	Oral
TS-3-003	Next-Generation Climate-Smart Precision Farming System for Sustainable Shrimp Production	K.P. Kumaraguru Vasagam, K. Ambasankar, P. Partha Sarathy and Kuldeep K. Lal	Oral
TS-3-004	Rapid Micropropagation of <i>Anubias barteri</i> var. <i>Glabra</i> : A High Value Aquarium Plant of Slow Growth and Propagation, and its Value Addition	Devika Pillai, K.S. Shylaraj, J. Amrutha Nair, P.T. Sheela and Binu Varghese	Oral
TS-3-005	Developing IoT Based System for Real-Time Monitoring and Management of Dissolved Oxygen (DO) in Culture Fishery	Basanta Kumar Das, Chayna Jana, S. Samanta, Meghnath Haldar, Swarup Dasgupta	Oral
TS-3-006	Farmers' Friendly Portable Fibre Reinforced Plastic (FRP) Scampi Hatchery to Boost Seed Production in India	D. Panda, B.R. Pillai, B.C. Mohapatra, S. Sahu, B. Mishra, D. Majhi, S.K. Panda, N. Naik and A. Miriyala	Oral
TS-3-007	Investigation into the Performance of an Indigenous Automatic Fish Feeder	N. Rajesh, Boby Ignatius and V.V.R. Suresh	Oral
TS-3-008	Advanced Methods for Mass Seed Production of Akoya Pearl Oyster, <i>Pinctada fucata</i> (a. Gould, 1850)	M.K. Anil, P. Gomathi, P.M. Krishnapriya and O. Shalini	Oral
TS-3-009	Habitat Refurbishment in Aquaculture: Role of Seaweeds in Open Water Cage Farm Sites (IMTA)	Shoji Joseph, K. Sunithakumari, M.S. Smina and N.P. Priya	Oral
TS-3-010	Assessing the Impact of Carbohydrate-Based Biofloc Systems on Koi Carp Growth and Survival	Subhalaxmi Rath, Chandrakanta Mishra, Santosh Kumar Udgata, Dharitri Chowdhury, G.M. Siddaiah and Arpit Acharya	Oral

TS-3-011	Enhancing Aquaponics Efficiency: Insights from <i>Labeo rohita</i> and <i>Ipomoea sp.</i> in Floating Raft and NFT Systems	Pralipta Priyanjali Panda, Bikash Chandra Mohapatra, Santosh Kumar Udgata, Nitish Kumar Chandan, Nityananda Das, Brundaban Sahu and Arpit Acharya	Oral
TS-3-012	Computer Vision and Machine Learning Approach for Predicting Shrimp Disease Occurrence Based on Growth Dynamics and Behaviour Analysis	Mahesh Sharma, Vinod Kumar Yadav, Vidya Shree Bharti, Arpita Sharma and Megha Bedekar	Oral
TS-3-013	In Silico Screening and Identification of Neem Bioactive Compounds Against White Spot Syndrome Virus (WSSV) Proteins VP26 and VP28	Akshaya Panigrahi and B. Kulothungan	Poster
TS-3-014	Deep Learning in Aquaculture: Understanding Spatial Relationships in Fish Behavior	G.P. Vaibhav Gowda, Rushali S. Adappa, C.G. Raghavendra, D.N. Sudeep Banakar and K. Sunil	Poster
TS-3-015	Smart Aquaculture Practices through IMTA and Hydroponics Integration	Soumya Priyadarshini, Santosh Kumar Udgata, Pooja Priyadarshini and Arpit Acharya	Poster

#### TS-4: Fish Genetics, Genomics & Biotechnology

Abstract No.	Title	Authors	Mode
	Applying Genetic Technologies to Combat Infectious Diseases in Aquaculture	<b>N.A. Robinson</b> Breeding and Genetics, Nofima (Norwegian Institute of Food, Fisheries and Aquaculture Research), Ås, Norway	Lead Speaker
TS-4-001	Insights on Unique Genes and Pathways of Cultured Shrimp Species Identified Through Pangenome Analysis	J. Ashok Kumar, K. Vinaya Kumar, K. Nimisha, P.N. Suganya, K.P. Gangaraj, K.P. Sudheesh, K.K. Chaturvedi, J. Syama Dayal and M.S. Shekhar	Oral
TS-4-002	Preliminary Studies on Selective Breeding in Pearlsplit ( <i>Etroplus suratensis</i> )	B. Sivamani, Aritra Bera, G. Thiagarajan and M. Kailasam	Oral
TS-4-003	Development of Asian Seabass ( <i>Lateolabrax japonicus</i> ) Muscle Cell Line for Production of Cultured Fish Meat	M. Makesh, K. Arul Kumar, T. Bhuvaneshwari, Aritra Bera, M. Kailasam and Kuldeep K. Lal	Oral
TS-4-004	Deciphering the Effect of Functional Diet Containing Single and Multiple Strain Probiotic on the Gut Microbiome Signatures in the Pacific White Leg Shrimp, <i>Penaeus vannamei</i> by Amplicon Sequencing	N. Lalitha, P.N. Suganya, T. Sivaramakrishnan and K. Ambasankar	Oral
TS-4-005	Cytokine Modulation by Sulfated Rhamnoglycan from <i>Ulva lactuca</i> : A Novel Approach to Immune Regulation and Anti-inflammatory Therapy	Shilpa Kamalakar Pai, Kajal Chakraborty, Ashwin Ashok Pai and Shubhajit Dhara	Oral
TS-4-006	Current Status and The Way Forward for 'CIFA-GI Scampi <sup>®</sup> '- The Fast-Growing Strain of Giant River Prawn <i>Macrobrachium rosenbergii</i> Developed Through Selective Breeding in India	Bindu R. Pillai, D. Panda, K.D. Mahapatra, P.K. Sahoo, R. Ponzoni, R. Rathod, F. Hoque, S. Sahu, B. Mishra, N. Naik, Jyoti, R. Kannauj and A. Miriyala	Oral
TS-4-007	Chromosome-Scale Genome Assembly for <i>Siganus javus</i>	K. Vinaya Kumar, M.S. Shekhar, J. Ashok Kumar, K. Sudheesh Prabhudas, Karthic Krishnan, Kumaravel Jayaraman, Nimisha Kaikkolante, Irine Maria, J. Raymond Jani Angel and M. Kailasam	Oral
TS-4-008	Metagenomic Analysis Reveals Xenobiotic Degradors in Trans-Himalayan Brahmaputra River Sediments	Niti Sharma, Basanta Kumar Das and Hirak Jyoti Chakraborty	Oral

TS-4-009	Modulation of Gut Metagenomics in <i>Labeo rohita</i> Fingerlings by Dietary <i>Terminalia arjuna</i> Bark Powder	D.K. Meena, B.K. Das and A.K. Sahoo	Oral
TS-4-010	NRFC: An Authenticated Fish Cell Bank for Research, Resource Conservation and Cellular Agriculture	S. Murali, Basdeo Kushwaha, Vijay Kumar Singh, Uttam Kumar Sarkar and Ravindra Kumar	Oral
TS-4-011	Whole Genome Sequencing of Selectively Bred Giant Freshwater Prawn, <i>Macrobrachium rosenbergii</i>	L. Sahoo, B. R. Pillai, P.C. Nandanpawar, D. Panda, P. Das, P.K. Sahoo, Vinay Kumar Katneni, S. Sekhar, Ashok Kumar Jangam, A. Chaudhari, V. Mohindra, J.K. Jena and S. Nandi	Oral
TS-4-012	De Novo Transcriptome Profiling of Indian Oil Sardine, <i>Sardinella longiceps</i> Using Next Generation Sequencing Technology to Identify Genes Involved in PUFA Biosynthesis	Sandhya Sukumaran, V.G. Vysakh, Wilson Sebastian and A. Gopalakrishnan	Oral
TS-4-013	Effect of Genetic and Non-Genetic Factors on Growth and Carcass Quality Trait in Jayanti Rohu Strain	Avinash Rasal, Khuntia Murmu, Madhulita Patnaik, Jitendra Kumar Sundaray and Kanta Das Mahapatra	Oral
TS-4-014	Gene Editing of Myostatin and Gonadotropin-Inhibitory Hormone in Model Zebrafish and Farmed Rohu Carp, <i>Labeo rohita</i>	H.K. Barman, N. Dalai, A. Bhanja, D.P. Nair, A. Sahu, S.T. Rout, A. Paul, A.R. Rasal, J.K. Sundaray, A. Saha, K. Murmu, S. Mohanty, S. Mohanty, R.K. Swain and P.K. Sahoo	Oral
TS-4-015	Conotoxin Discovery in <i>Conus inscriptus</i> Reeve, 1843 (Engraved Cone) Through Transcriptome Profiling	Karthika Raju, A. Kathirvelpandian, S. Arun Sudhagar, S. Murali, Ajith Kumar and Uttam Kumar Sarkar	Oral
TS-4-016	RNA-Guided Recombinase (RGR) Platform-Mediated Targeted Transgenesis of EGFP Reporter Gene in Zebrafish	N.C. Nidarshan, P. Manoj Brahmane, D. Kiran Rasal, S. Naresh Nagpure, Mukunda Goswami and A. Arvind Sonwane	Oral
TS-4-017	Profiling of DNA Methylation Patterns in Genetically Selected <i>Clarias magur</i> (Hamilton, 1822)	K. Shasti Risha, D. Kiran Rasal, Dhalongsaih Reang, Mir Asif Iquebal, Arvind Sonwane, Manoj Brahmane, Aparna Chaudhari and Naresh Nagpure	Oral
TS-4-018	Development of Primary Cell Cultures from the Fin, Brain and Heart of Whiptail Silver Bidy, <i>Gerres filamentosus</i> (Cuvier, 1892)	S. Suryakodi, Arun Sudhagar, R. Vallarasu, A. Kathirvelpandian and Uttam Kumar Sarkar	Oral

TS-4-019	Expression Profiling of <i>GnIH</i> and Its Receptors after Hormone Injections in <i>Clarias magur</i>	Ningthoujam Chaoba Devi, Sudhakar Bisen, Papuli Adhikary, Galaxy Laishram and Janmejay Parhi	Oral
TS-4-020	Influence of Temperature on Expression Profile of Sex-Differentiation Related Genes at Early Developmental Stages of an Endangered Cyprinid <i>Tor putitora</i> (Hamilton, 1822)	Shahnawaz Ali, M.S. Akhtar and Amarjit Kaur	Oral
TS-4-021	Draft Genome Assembly and Comparative Phylogenomics of <i>Labeo fimbriatus</i>	Aparna Chaudhari, Annam Pavan Kumar, A. Puvar, L. Sahoo, P.N. Pawar, P. Das, Kiran D. Rasal, Samiran Nandi, C.G. Joshi, C.N. Ravishankar and J.K. Jena	Oral
TS-4-022	Omics in Fisheries - A Story About Epigenomics and Metagenomics in Aquatic Species and Ecosystem Health Management	Suvra Roy, Vikash Kumar, Tanushree Banerjee, B.K. Behera and B.K. Das	Oral
TS-4-023	CpG Methylation Alteration in Selected Genes and Its Effect on Colouration in Zebra Fish Response to Natural DNMT Inhibitor Curcumin and Grape Seed Extract	Ananya Khatei, Yambem Suresh Singh, Ningthoujam Chaoba Devi, Arpit Acharya, Prasenjit Pal, Pramod Kumar Pandey and Himanshu Priyadarshi	Oral
TS-4-024	Deciphering Biomineralization Genes and Associated Markers through Transcriptome Analysis of the Freshwater Pearl Mussel <i>Lamellidens marginalis</i>	Sonal Suman, Annam Pavan Kumar, Shilesh Saurab, Swetha Pradhan, P. Gireesh Babu, Rekha Das and A. Chaudhari	Oral
TS-4-025	Global Gene Expression Profiles of <i>Catla catla</i> Brain Induced by Low Temperature	Vindhya Mohindra, Labrechai Mog Chowdhury, Nishita Chauhan, Komal Sharma, Kumar Rajesh and J.K. Jena	Oral
TS-4-026	Nano conjugated Kisspeptin for Enhancing Reproductive Output in <i>Labeo catla</i>	Bharathkumar and Rupam Sharma	Oral
TS-4-027	Purification of HSP70 from Rohu, <i>Labeo rohita</i> and Development of Rabbit Polyclonal Antibody for its Detection	Jyotirmaya Mohanty, Arijit Sahoo, Mohan R. Badhe, Sonalina Sahoo and Pramoda Kumar Sahoo	Oral
TS-4-028	Gene Delivery into Fish Cells via Polymer-Based Nanoparticles	D. Thakuria, C.K. Victoria, A. Pande and P.K. Pandey	Oral
TS-4-029	Comparative Profiling of Intestinal Bacterial Communities in Indian Major Carp ( <i>Labeo catla</i> ) and Stripped Murrel ( <i>Channa striata</i> ) Under Rearing Conditions: A Case Study	Madhusmita Mohapatra, Jitendra Kumar Sundaray, Ipsita Iswari Das, Avinash Rasal, Rajesh Kumar, Khuntia Murmu, Lakshman Sahoo, Jackson Debbarma and Pramoda Kumar Sahoo	Oral

TS-4-030	Effect of GABAergic Modulation on the Key Reproductive Genes of the Brain and Gonads in <i>Clarias magur</i> (Hamilton, 1822)	Diganta Dey, Dhalongsaih Reang, Pritam Sarkar, Sunil Kumar Nayak, A. Pavan Kumar, Rupam Sharma and Aparna Chaudhari	Oral
TS-4-031	Performance Evaluation of Early Growth Traits of <i>Labeo rohita</i> (Hamilton, 1822) in a Cohort Breeding Programme	Rajaram Hansda, M.A. Pathan, A. Lenin Singh, D. Reang, A. Sharma, H. Haridas and Sunil K. Nayak	Oral
TS-4-032	Genetic (Co)variance of Common Carp ( <i>Cyprinus carpio</i> ) Body Weight in Inland Saline Production Environment	P.S. Nagaraja, Ravi Raghul, V. Susitharan, Priyanka Sanwal and Mujahidkhan A. Pathan	Oral
TS-4-033	Identifying the Best Age for the Genetic Selection of Growth in Maha-Magur	B.S. Adithya, Shrinivas Jahageerdar, N. Shamna, J. Jayasankar and A. Dhandapani	Oral
TS-4-034	Selective Breeding Program of <i>Cyprinus carpio</i> (Common Carp) in India: Status and Scope in Inland Saline Production System	Mujahidkhan A. Pathan, Pankaj Kumar, K. Sreedharan, Ashok Kumar, Satyendar Singh, Dhalongsaih Reang, Mohammad Aklakur, Angom Lenin Singh, Sunil Kumar Nayak, A.M. Babita Rani and Aparna Chaudhari	Oral
TS-4-035	Monthly Variation in Milt Quality Parameters of <i>Labeo rohita</i> and Effect of Cryopreserved Milt on Hatching	Omdevsinh Vala, Santosh Kumar and Uttam Kumar Sarkar	Oral
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TS-4-039	Identification of <i>Clarias magur</i> miRNAs From NGS Data with Reference to Growth	Tanwy Dasmandal, S. Murali, Satyamvada Maurya, Vishwamitra Singh Baisvar, Basdeo Kushwaha and Ravindra Kumar	Poster
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TS-4-042	Genome-wide Single Nucleotide Polymorphism Marker Identification in Giant Freshwater Prawn, <i>Macrobrachium rosenbergii</i>	S. Chand, S.S. Kar, P.C. Nandanpawar, B.R. Pillai, D. Panda, P.K. Meher, P. Das, A. Puvar and L. Sahoo	Poster
TS-4-043	Deciphering the Distinct Functions of Myostatin A and Myostatin B Through CRISPR-Cas9 Gene Editing	A. Bhanja, D.P. Nair, A. Sahu, S.T. Rout, A. Paul, A.R. Rasal, J.K. Sundaray, A. Saha, K. Murmu, S. Mohanty, S. Mohanty, R.K. Swain, P.K. Sahoo and H.K. Barman	Poster
TS-4-044	Understanding the Role of Phoenixin in the Reproduction of Seasonal Breeder Carp Species <i>Labeo rohita</i>	A. Saha, J. Das, B. Singh, M. Samanta and S.S. Giri	Poster
TS-4-045	Molecular Characterization of Gonadotropin-Releasing Hormone (GnRH) and its Expression Analysis in Striped Murrel, <i>Channa striata</i> (Bloch, 1793)	Prachi Asgolkar, D. Kiran Rasal, Rajesh Kumar, Arvind Sonwane, Manoj Brahmane, Megha Bedekar, Jitendra Kumar Sundaray and Mukunda Goswami	Poster
TS-4-046	Study of Genotoxicity and Gene Expression Modulation Associated with Selected Antiparasitic Drug Used in Aquaculture on <i>Danio rerio</i> (Hamilton, 1822)	Viral Kumar, Sujit Kumar, Vivek Shrivastava, Smit Lende and S.I. Yusufza	Poster
TS-4-047	Molecular Characterization of Follicle Stimulating Hormone and its Expression Profiling in Response to HCG Stimulation in Striped Murrel, <i>Channa striata</i> (Bloch, 1793)	Siba Shinde, Prachi Asgolkar, Kiran D. Rasal, Pokanti Vinay Kumar, Arpit Acharya, Shasti Risha, Siyag Dhere, Rajesh Kumar, Arvind Sonwane,	Poster

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TS-4-048	Cellular and Molecular Level Interactions of COOH-MWCNTs in Zebrafish ( <i>Danio rerio</i> )	Kranthirekha Mukkeri, Alok Kumar Sethy, Mujahid Khan Pathan, Daggula Narshivudu and Rupam Sharma	Poster
TS-4-049	Expression Profiling of Genes for Iridophore and Xanthophore Development Through Guanine and Carotenoid Fortified Diet in <i>Colisa lalia</i>	Aslasha Shraborni, Sagar Chandra Mandal, Janmejay Parhi and Ningthoujam Chaoba Devi	Poster
TS-4-050	Identification of Differentially Expressed Immune Related Genes and Associated SSRs From Kidney Transcriptome of <i>Cyprinus carpio</i> , Exposed to Two Different Temperature Conditions	Nishita Chauhan, Vindhya Mohindra, Labrechai Mog Chowdhury, Alisha Paul, R. Kumar, Mohd. Imran and J.K. Jena	Poster
TS-4-051	Transcriptome Analysis Reveals Differential Gene Regulation in Ovarian Tissues of <i>Anabas testudineus</i> (Bloch, 1793) in Response to Monocrotophos	Siyag Dhere, Sujata Mohapatra, Pokanti Vinay Kumar, Kiran D. Rasal, Rajesh Kumar, Arvind Sonwane, Manoj Brahmane, Jitendra Kumar Sundaray and Mukunda Goswami	Poster
TS-4-052	Protein Hydrolysates from Fish Wastes of Rohu ( <i>Labeo rohita</i> ): Evaluation of Antioxidant, Anti-Hypertensive and Antibacterial Properties	Jyotirmaya Mohanty, Sonalina Sahoo, Mohan R. Badhe, Gargee Mohanty, Javed Akhtar and Pramoda Kumar Sahoo	Poster
TS-4-053	miRNA Profiling from the Muscle Transcriptome of Catla and their Association with Growth Related Genes at Three Growth Stages	Labrechai Mog Chowdhury, Vindhya Mohindra, Nishita Chauhan, Komal Sharma, Alisha Paul, Kumar Rajesh, Achal Singh and J.K. Jena	Poster
TS-4-054	Isolation, Characterisation and De Novo Whole Genome Sequencing of Phcf1.2: A Novel Lytic Bacteriophage Targeting <i>Photobacterium ganghwense</i>	Keerthi R. Babu, K.S. Sobhana, Aleena Alex, K.P. Neethu, V.S. Jayasree, A. Gopalakrishnan and Grinson George	Poster
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## TS-5: Aquatic Animal Nutrition, Feed Technology and Alternate Feed Resources

Abstract No.	Title	Authors	Mode
	Nutrigenomic Approaches to Enhance the Feed Efficiency in Fish	<b>Vikas Kumar</b> Fish Nutrition and Nutrigenomics University of Idaho, USA	Lead Speaker
TS-5-001	Effect of Complete Replacement of Fishmeal/Fish Oil on Growth, Digestive Enzymes, Fatty Acids and Metabolic Pathways in Milkfish, <i>Chanos chanos</i>	J. Syama Dayal, J. Ashok Kumar, O. Sravanthi, K.P. Gangaraj, K. Vinaya Kumar, Aritra Bera, K. Ambasankar, K.P. Kumaraguru Vasagam and M. Muralidhar	Oral
TS-5-002	Physiological, Metabolic, and Body Compositional Responses of All-male Giant Freshwater Prawn ( <i>Macrobrachium rosenbergii</i> ) to Dietary L-tryptophan Supplementation during Nursery Rearing	Jaynos R. Cortes and Krishna R. Salin	Oral
TS-5-003	Carbohydrate-Based Prebiotics Augment Gut Eubiosis in Fish	Madhulika Tripathi, Banu Dharshini M. Tincy Verghese, Aparna Chaudhari and Subodh Gupta	Oral
TS-5-004	Dietary Effect of Ashoka Tree ( <i>Saraca asoca</i> ) Bark on Gonadal Development of Female Climbing Perch ( <i>Anabas testudineus</i> )	Maneesh Kumar Dubey, Shivendra Kumar, Prem Prakash Srivastava and R.K. Brahmchari	Oral
TS-5-005	Comparative Performance Evaluation of Microalgae Incorporated Prepared Feed and a Commercial Feed for the Growth, Survival and Colouration of the Goldfish, <i>Crassius aurtatus</i> and Albino Buenos Tetra <i>Hyphessobrycon anisitsi</i> in Two Commercial Ornamental Fish Farms of Mumbai, India	Sikendra Kumar, Kedar Nath Mohanta and N.P. Sahu	Oral
TS-5-006	Dietary Pineapple Peel Ethanolic Extract Reduces Crowding Stress with Improvement of Growth, Metabolism and Biochemical Status of <i>Labeo rohita</i> (Ham.1822)	Soumyodeep Bhattacharya, Parimal Sardar, Narottam Prasad Sahu, Naseemashahul Shamna, Manish Jayant and Prasanta Jana	Oral
TS-5-007	Developmental Ontogeny of Genes Associated with Long-Chain Polyunsaturated Fatty Acids (LC-PUFA) Biosynthesis in Asian Seabass <i>Lates calcarifer</i>	Sherly Tomy, P. Ezhil, Arul Kumar, R. Subburaj, G. Thiagarajan, K. Ambasankar and M. Kailasam	Oral
TS-5-008	Broodstock Nutrition Improves Reproductive Performance and Larval Quality Traits of <i>Tor putitora</i>	A. Ciji, M.S. Akhtar, B.S. Kamalam, M. Rajesh and P. Sharma	Oral

TS-5-009	ICAR-CIBA's Initiatives on Farm-Based Indigenous Aqua-Feeds: Cost Effective Option for Small and Medium Scale Farmers	K. Ambasankar, J. Syama Dayal, K.P. Kumaraguru Vasagam, T. Sivaramakrishnan and K.K. Lal	Oral
TS-5-010	Effect of Salinity on Carapace Mineralization of Whiteleg Shrimp, <i>Penaeus vannamei</i> Reared at Different Water Salinities	O. Sravanthi, J. Syama Dayal, T. Sathish Kumar, K. Ambasankar and M. Muralidhar	Oral
TS-5-011	Effects of Varied Protein and Lipid Level on Growth, Survival, Antioxidant Status, and Metabolic Responses of <i>Channa striata</i> Larvae	Rakhi Kumari, P. P. Srivastava, Kedar N. Mohanta, Paramananda Das, Rajesh Kumar, Prakash Sharma and G.M. Siddaiah	Oral
TS-5-012	Impact of <i>Lemna minor</i> Incorporated Diets on <i>Labeo rohita</i> Larvae	Sukh Sandan, Jai Gopal Sharma, Guddu Kumar, Pinaki Chakraborty and Rina Chakrabarti	Oral
TS-5-013	Evaluation of Impact of Linseed <i>Linum usitatissimum</i> Oil Incorporated Diets on the Performance of Snow Trout <i>Schizothorax richardsonii</i> Larvae	Jai Gopal Sharma, Guddu Kumar, Pinaki Chakraborty and Rina Chakrabarti	Oral
TS-5-014	Assessment of Co-feeding Strategies with Artificial Diets and Fresh <i>Wolffia globosa</i> on Growth Performance, Physiological Health, and Economic Efficiency in Semi-Intensive Polyculture of <i>Osteobrama belangeri</i> and <i>Ompok bimaculatus</i>	Vishwajeet Anand, Arun Bhai Patel and Nitesh Kumar Yadav	Oral
TS-5-015	Biofloc Meal as A Replacement for Fish Meal in The Diet Could Enhance Growth Performance, Health Status and Muscle Quality of Striped Catfish ( <i>Pangasianodon hypophthalmus</i> )	Amit Mandal, Vaishali and Vijay Kumar Reddy Surasani	Oral
TS-5-016	Dietary Lemon Peel Extract Alleviates Cold Stress in <i>Labeo rohita</i> (Hamilton, 1822) Fingerlings	Kinnera Tejaswini, Ashutosh D. Deo, Naseemashahul Shamna, Manish Jayant and Md. Aklakur	Oral
TS-5-017	Effective Utilization of Valorized Non-Mulberry Silkworm Spent Pupae in Catfish Diet for Bioconversion	Rahul Das, Basanta Kumar Das, Armaan Ullah Muzaddadi	Oral
TS-5-018	Substituting Soybean Meal with Winged Bean Meal and Evaluation of Growth and Physiology of <i>Ompok Bimaculatus</i> (Bloch, 1794)	Jaya Angom, Soibam Khogen Singh and Arun Bhai Patel	Oral
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TS-5-020	Age-Specific Changes in The Serum Proteome, Amino Acids and Antioxidant in Anadromous Fish, Hilsa ( <i>Tenuulosa Ilisha</i> ): Their Implications for Aquaculture Conservation	Hena Chakraborty, Basanta Kumar Das, Hirak Jyoti Chakraborty, Anjon Talukdar and Joydev Maity	Oral

TS-5-021	Effects of Dietary Lipid Levels on Gonadal Maturation and Egg Quality of <i>Anabas testudineus</i>	Nitish Kumar Chandan, K.N. Mohanta, Rajesh Kumar, S. Nandi, Rakhi Kumari., U.K. Udit and G.M. Siddaiah	Oral
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TS-5-023	Histopathological, Biochemical and Molecular Changes Observed During Visceral Fat Deposition in <i>Labeo catla</i> Females due to Improper Dietary Protein to Carbohydrate Ratio	Uday Kumar Udit, Prem Kumar Meher and Samiran Nandi	Oral
TS-5-024	Relative Efficacy of Fresh <i>Wolffia (Wolffia globosa)</i> Based Feeding Strategies in Polyculture System of Indian Major Carps	Deepan S. Rajesh, Arun B. Patel, J. Angom, S. Baidya, G. Waikhom and A.D. Upadhyay	Oral
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TS-5-026	Understanding the Growth Patterns of Thraustochytrids for Potential Fish Oil Replacement in Marine Aquafeeds	Adnan H. Gora, Saima Rehman, Sanal Ebeneezar, Chandrasekar Selvam, D. Linga Prabu and Kajal Chakraborty	Oral
TS-5-027	Pre and Post-Challenge Immuno-Haematological Changes in <i>Anabas testudineus</i> Juveniles Fed Rice Distillers' Dried Grains Soluble with Exogenous Non-Starch Polysaccharidases	Joynal Abedin, Shivendra Kumar, R.K. Brahmchari, Maneesh Kumar Dubey, Aditi Banik and Prem Prakash Srivastava	Oral
TS-5-028	Development Profile of Digestive Enzymes and Intestinal Nutrient Transporters During the Early Ontogeny of Himalayan Snow Trout, <i>Schizothorax richardsonii</i>	Rini Joshi, Biju Sam Kamalam, Prakash Sharma, Mukul Arya, Nahida Rasheed, Bhawna Gehlot, Debajit Sarma, Bipin Chandra Pathak, Md. Shahbaz Akhtar, Pramod Kumar Pandey and Manchi Rajesh	Oral
TS-5-029	Effect of Meal Timing on Growth Performance, Physiological Traits and Postprandial Kinetics of Digestive and Metabolic Indices in Rainbow Trout ( <i>Oncorhynchus mykiss</i> )	Baskar Veeramaruthu, Manchi Rajesh, Jebarson Solomon, Vishavjeet Singh, Oyas Ahmad Asimi, Bhawna Gehlot, Rini Joshi, Sidhant and Biju Sam Kamalam	Oral
TS-5-030	Effect of Diet Composition and Feeding Ration on Growth, Feed Use, Carcass Nutrient Estimates and Thermal Tolerance of <i>Pangasianodon hypophthalmus</i> at Low Rearing Temperature	Sidhant, Manchi Rajesh, Veeramaruthu B, Daiairi Kharjana, Sanjay Singh Bisht, Pramod Kumar Pandey and Biju Sam Kamalam	Oral

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TS-5-034	Carbohydrate-Based Prebiotics Augment Gut Eubiosis in Fish	Madhulika, M. Banu Dharshini, Tincy Verghese, Aparna Chaudhari and Subodh Gupta	Oral
TS-5-035	Protein-Sparing Effects of Carbohydrates in the Diet of Cultured Fish with Special Emphasis on Carnivorous Fish Species	Mekonen Hailu, Liu Liping and Jingwei Liu	Oral
TS-5-036	Assessment of Apparent Digestibility of Novel Feed Ingredients for Barramundi Lates calcarifer under the Red Sea Conditions	S. Zehra, A.A. Siddik, R. Saleh, P.H. De Mello, Salaheldeen Habiballah, Majed A. Alghamdi, A. Al Shaikhi, J.L.Q. Laranja, Y.S. Alhafedh, B.D. Glencross and A.H. Mohamed	Oral
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TS-5-039	Assessment of Black Soldier Fly ( <i>Hermetia illucens</i> ) Larval Meal in the Diets of Indian Pompano ( <i>Trachinotus mookalee</i> , Cuvier, 1832)	Sanal Ebeneezar, P.C. Anjali, K.A. Sajina, D. Linga Prabu, S. Chandrasekar, Adnan H. Gora, P. Sayooj, Ambarish P. Gop, P. Vijayagopal and Kajal Chakraborty	Oral
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TS-5-042	Synergistic Effects of Selected Dietary Additives on Growth, Activities of Digestive Enzymes, and Body Composition of GIFT Juveniles Reared in Inland Saline Water	Samrat Kumar Nirala, Parimal Sardar, Narottam Prasad Sahu, Tincy Varghese and Nazeema Shamna	Oral
TS-5-043	Study on the Potential of Fish Waste Hydrolysate on Reduction of Feed Requirement in Brackishwater Polyculture System	Debasis De, K.P. Sandeep, P. Mahalakshmi and Kuldeep K. Lal	Oral
TS-5-044	The Phytobiotics in Curry Leaf ( <i>Murraya koenigii</i> ) Augmented Reproductive Development in Drapefin Barb, <i>Oreochthys crenuchoides</i> Under Captivity	N. Siva, Gouranga Biswas, Paramita B. Sawant, Sujata Sahoo, Dilip K. Singh and Sweta Pradhan	Oral
TS-5-045	Effects of Dietary Tryptophan on Growth Performance, Physio-Metabolic Responses and Expressions of Igf-1 and Igf-1r Genes in Gift Juveniles Cultured in Inland Ground Saline Water	Nisha Chuphal, Parimal Sardar, Narottam Prasad Sahu, Naseemashahul Shamna, and Tincy Varghese	Oral
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TS-5-047	Dietary Carnitine and Taurine Enhance Growth, Lipase Activity and Reduced Body Fat in GIFT Juveniles Reared in Inland Saline Water	Samrat Kumar Nirala, Parimal Sardar, Narottam Prasad Sahu, Tincy Varghese and Nazeemashahul Shamna	Oral
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TS-5-049	Synergistic Effects of Nutritional Regimens and Feeding Frequency on Growth Dynamics and Biochemical Homeostasis for Captive Maturation in Zebra Loach ( <i>Botia striata</i> )	Guntapalli Sravani, Paramita Banerjee Sawant, Munilkumar Sukham, Gouranga Biswas, N. Shamna, Subam Debroy, Vikas kumar Ujjania, Ramjanul Haque and Debajit Sarma	Oral

TS-5-050	Evaluation of Seaweed ( <i>Hylemenia venusta</i> ) Meal as a Replacer of De-Oiled Rice Bran in the Diet of Angel Fish, <i>Pterophyllum scalare</i>	K.S. Sawant, G.H. Pailan, Parimal Sardar, K.A. Martin Xavier, Munilkumar Sukham, Sujata Sahoo, Kedar Nath Mohanta, Prakash Patekar and M. Satheesh	Oral
TS-5-051	Effect of Dried Henna Leaf Powder ( <i>Lawsonia inermis</i> ) Incorporated Fish Feed on Growth, Survival and Pigmentation of Guppy, <i>Poecilia reticulata</i> (Peters, 1859)	N. Imran Mohammed, L. Kowsigan, M. Muthu Abishag, M. Mohammed Faizullah, V. Ranjith Kumar, P. Kalaiselvan and S. Balasundari	Oral
TS-5-052	Evaluation of Controlled and Normal System Raised Defatted Black Soldier Fly Larvae (CSDBSFL and NSDBSFL) Meals in the Diet of <i>Panaeus vannamei</i> Juveniles: Effects on Growth Performance, Stress Response and Immunity	T. Bhuvaneshwaran, Narottam P. Sahu, N. Shamna, Parimal Sardar, Muralidhar P. Ande and Kedar Nath Mohanta	Oral
TS-5-053	Study on the Effect of Indole Acetic Acid (IAA) and Nitrogen Stress on the Nutrient Profile of <i>Nannochloropsis</i> Algae	G. Gobi, S. Aruna, A. Uma and K. Ravaneswaran	Oral
TS-5-054	Dietary Zinc Requirement of Fingerling <i>Labeo catla</i> (Hamilton, 1822) Based on Growth Performance, Hematology, and Tissue Mineral Composition	Sana Naz and Mukhtar Ahmad Khan	Oral
TS-5-055	Effects of Organic Dietary Selenium on Growth, Conversion Efficiency, Antioxidant Status and Immune Response of <i>Heteropneustes fossilis</i>	Noorin Zafar and Mukhtar A. Khan	Oral
TS-5-056	Effect of Diet Type on Digestive Enzyme Activities and Intestinal Structure of Himalayan Snow Trout ( <i>Schizothorax richardsonii</i> )	Da u ruhi Pde, Manchi Rajesh, Rini Joshi, Bhawna Gehlot, Daiairi Kharjana and Biju Sam Kamalam	Oral
TS-5-057	Comparative Efficacy of Duckweed ( <i>Spirodela</i> and <i>Lemna</i> ) Paste as Fish Feed Binder on the Growth Performance, Health Status and Coloration of Ornamental Koi Carp, <i>Cyprinus carpio</i> (Linn.)	Mutum Deepti, Vaneet Inder Kaur and Meera D. Ansal	Poster
TS-5-058	Quantifying Nitrogen and Phosphorus Discharge from Spiny Lobster Cage Culture: Environmental Considerations for Sustainable Mariculture	T.S. Ramshad, Mayur S. Tade, Damodaran Nair Divu, Suresh Kumar Mojjada, P.S. Swathi Lekshmi, Jayesh Devaliya, Sagar Jadav, Aarsha Subramanian, Prachi Bagde and Dhanush Janarthanan	Poster
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TS-5-060	Nutritional Composition Analysis of Twenty-Eight Small Indigenous Fishes from The River Ganga: Insights into Gross Chemical Composition, Fatty Acid and Mineral Composition	Satabdi Ganguly, Basanta Kumar Das, Dhruva Jyoti Sarkar, Subhadeep Das Gupta, Archisman Ray, Anjon Kumar Talukder and Subhamoy Dutta	Poster
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TS-5-066	Nutritional and Molecular Benefits of Quercetin-Enriched Diet on Growth and Immunity in <i>Labeo rohita</i> Fingerlings	Showkat Ahmad Dar, Sarvendra Kumar, Ved Prakash Saini, Susmita Rani, Aishwarya Sharma, Abhiman Ballyaya, Rajesh Kumar and Sagarika Swain	Poster
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TS-5-071	Role of Attractants and Minor Ingredients in Enhancing Feeding Performance of Stinging Catfish <i>Heteropneustes fossilis</i>	M.D. Aklakur, Udipta Roy, Patel Suraj Piyushkumar, Kedar Nath Mohanta, Tapas Kumar Ghoshal, Tincy Varghese, Ashutosh D. Deo and Md. Imran Shah	Poster

## TS-6: Aquatic Animal Health Management and Antimicrobial Resistance

Abstract No.	Title	Authors	Mode
	Comprehensive Monitoring of Animal Health and Developing Oral Therapeutics are Needed for Sustainability of Shrimp Farming Worldwide	<b>Arun K. Dhar</b> Aquaculture Pathology Laboratory, School of Animal and Biomedical Sciences, University of Arizona, Arizona, USA	Lead Speaker
TS-6-001	Pharmacodynamics and Pharmacokinetics of Lufenuron, an Anti-Parasitic Drug in Asian Seabass, <i>Lates calcarifer</i> Fingerlings under Tropical Indian Climate	R. Ananda Raja, P.K. Patil, A. Dixit, R. Vidya, P. Kumararaja, K.P. Sandeep, T. Sivaramakrishnan, M.S. Shekhar and D. De	Oral
TS-6-002	Comprehensive Diagnosis of Clinical and Subclinical Occurrence of Tilapia Lake Virus Infection by Biochemical, Serological and Molecular Methods in Maharashtra and Gujarat States of India During 2020-23	Megha Bedekar, V. Anisha, K.V. Rajendran, M. Supradnya, K. Jeena and Neeraj Sood	Oral
TS-6-003	Genotyping of White Spot Syndrome Virus Using Comparative Genomics Based MRF Tool	M.S. Shekhar, A. Panigrahi, Vinaya Kumar Katneni and Ashok Kumar Jangam	Oral
TS-6-004	An Immersion Vaccine Against Zoonotic Fish Pathogen <i>Lactococcus garvieae</i> for Coldwater Fish Rainbow Trout ( <i>Oncorhynchus mykiss</i> ) of India	Neetu Shahi, Bhupendra Singh, Amit Pande, Sumanta Kumar Mallik, Suresh Chandra and Pramod Kumar Pandey	Oral
TS-6-005	Rapid Detection Kit for <i>Aeromonas hydrophila</i> Infecting Nile Tilapia Using Gold Nanoparticle-Based DNA Probe	Niko Macaraeg and Karl Marx Quiazon	Oral
TS-6-006	Effect of <i>Ocimum gratissimum</i> (African Basil) Extract on Growth, Hemato-Biochemistry, Immunity, Stress Response, and <i>Aeromonas</i> Resistance in <i>Labeo rohita</i> (Hamilton)	Farhana Hoque, Sudhansu Sekhar Mishra, Ajmal Hussan, Arabinda Das, Baidya Nath Paul and Pramoda Kumar Sahoo	Oral
TS-6-007	CIBA EHP Cura I: A Novel Therapeutic for Effective <i>Ecytonucleospora hepatopenaei</i> (EHP) Management in Shrimp Culture	T. Sathish Kumar, T. Sivaramakrishnan, P. Ezhil Praveena, K. Ambasankar, K.P. Jithendran, M. Shashi Shekhar and Kuldeep K. Lal	Oral
TS-6-008	Antioxidant, Immunostimulatory and Antifungal Potential of Essential Oils Against Saprolegniasis	Ritesh Shantilal Tandel, Pragyan Dash and Raja Aadil Hussain Bhat	Oral
TS-6-009	<i>Aeromonas veronii</i> Causing Mortality of Asian Seabass ( <i>Lates calcarifer</i> ) Cultured in Freshwater Environment	T. Bhuvaneswari, Sudama Swain, K.B. Balagopal, N.U. Allie, Vidya Rajendran, Ezhil Praveena P. and S.K. Otta	Oral
TS-6-010	Disease Surveillance in <i>Litopenaeus vannamei</i> Shrimp Farms in Thiruvallur District of Tamil Nadu Revealed	P. Ezhil Praveena, S.K. Otta, T. Bhuvaneswari, K.B. Balagopal, S. Kannan, V. Kathirkaman and Kuldeep K. Lal	Oral

	Dominance of <i>Enterocytozoon hepatopenaei</i>		
TS-6-011	Biological Effects of Florfenicol on Environmental Toxicity Indicator Organisms: Microalga, <i>Chlorella marina</i> and Copepod, <i>Apocyclops</i> sp.	A. Dixit, R. Ananda Raja, P.K. Patil and K.P. Sandeep	Oral
TS-6-012	Detection and Characterization of Wenzhou Shrimp Virus 8 (WzSV8) in Shrimp Farms in India	P. Ezhil Praveena, Sudama Swain, N.U. Allie, S. Kannan, K.B. Balagopal, V. Kathirkaman, M.P. Shreelekha, T. Bhuvaneswari and Subhendu Kumar Otta	Oral
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TS-6-014	A Novel Synbiotic Formulation for Improved Shrimp Immunity and Growth	C.K. Krupesh, Vidya Rajendran, and Prasanna Kumar Patil	Oral
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TS-6-016	Pharmacokinetics and Tissue Residue Depletion of Praziquantel in Nile Tilapia ( <i>Oreochromis niloticus</i> )	Shijina P Nambiar, Surya Chaithanya, A.V. Rehna, Suresh N. Nair and Devika Pillai	Oral
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TS-6-018	Comparative Genomics of Harveyi Clade: Insight into Virulence Related Factors	Sujeet Kumar, B. Nishanthini, Abhaya Robinson, T. Satheesh Kumar, M. Makesh and M.S. Shekhar	Oral
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TS-6-024	Evaluation of Effect of <i>Achyranthes aspera</i> Supplemented Diets on the Growth, Innate Immunity, Antioxidant Status and Expressions of Immune Related Genes in Catfish <i>Clarias batrachus</i>	Rina Chakrabarti, Amarjeet Singh and Jai Gopal Sharma	Oral
TS-6-025	Comparative Antimicrobial Resistance Profiling of Bacterial isolates from Freshwater Aquaculture systems in Odisha and Andhra Pradesh	S.S. Mishra, S.N. Sahoo, R. Rathod, D. Behera, Shweta P. Dash, A.K. Pradhan, G. Rathore and P. Swain	Oral
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TS-6-028	Impact of Polystyrene Microplastics Exposure in Zebrafish: Effects on Condition Factor, Haematology, Tissue Integrity and Biochemical Parameters	Dola Roy, Chinmaya Kumar Parida and K. Jitendra Sundaray	Oral
TS-6-029	Antibiotic Florfenicol-Induced Alterations in Gut Microflora and Digestive Enzymes of <i>Pangasianodon hypophthalmus</i>	Nilemesh Das, Asit Kumar Bera, Thangapalam Jawahar Abraham, Basanta Kumar Das, Sohini Chatterjee and Sanjib Kumar Manna	Oral
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TS-6-033	Pathological Alterations Associated with <i>Amyloodinium</i> Infestation in Nursery-Reared Silver Pompano ( <i>Trachinotus blochii</i> )	Kurva Raghu Ramudu, N.K. Sanil, Tanveer Hussain, M.J. Lincy, C. Kalidas and P.P. Sureshbabu	Oral
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TS-6-036	Identification and Preventive Measures for Parasitic Infestation in Sea Cage Farmed Marine Finfish, Indian Pompano - Towards Sustainable Mariculture Practices	Sekar Megarajan, Ritesh Ranjan, Biji Xavier, Ponnaganti Shiva, Shubhadeep Ghosh, Jayasree Loka, Boby Ignatius and Joe K. Kizhakudan	Oral
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TS-6-038	Toxicity Assessment of Titanium Dioxide Nanoparticle (TiO <sub>2</sub> -Np) in Rohu ( <i>Labeo rohita</i> )	Chinmayee Muduli, Dillip Kumar Behera, Pushpa Choudhary, Satyanarayan Sahoo, Sudhansu Sekhar Mishra and Priyabrat Swain	Oral
TS-6-039	Unhygienic Conditions in Biofloc Systems: Potential for Disease Emergence in <i>Anabas testudineus</i> Through Reverse Zoonosis and Antimicrobial Resistance	Nayan Chouhan, Muneshwar Pavankalyan, Rajashree Devi, Debojit Dekari, Himadri Saha and Tapas Chakraborty	Oral
TS-6-040	Prevalence of Antimicrobial Resistance in the Bacterial Isolates from Freshwater Fish Farms in Odisha, India - A Case Study	Satya Narayan Sahoo, Arabinda Jena, Suraj Patel, Priyabrat Swain, Basanti Kumari Pathi, Manoj Kumar Das and Sudhansu Sekhar Mishra	Oral
TS-6-041	Trophic Troubles: Assessing Environmental BPA Levels in Fish and Potential Health Risks	Sourav Kundu, Subhadeep Das Gupta, Subhamoy Dutta, Basanta Kumar Das, Canciyal Johnson and H. Mitesh Ramteke	Oral
TS-6-042	Nanotechnology to Combat Antimicrobial Resistance in Aquaculture	Priyabrat Swain, Satya Narayan Sahoo and Sudhansu Sekhar Mishra	Oral
TS-6-043	Heat Killed Mycobacterium Induced Immune Training Enhances Vaccine Orchestrated Immunity in Tilapia	Rahul Krishnan, Lakshmi Haridas, A. Abhiram, Devika Pillai, V.J. Rejish Kumar, S. Abdul Majeed, G. Taju, A.S. Sahul Hameed, Anirban Paul, J. Mohanty and P.K. Sahoo	Oral
TS-6-044	Natural Co-Infection of Tilapia Parvo Virus Along with Tilapia Lake Virus and	A.K. Bera, M. Shaya Devi, B.K. Das, D. Mohanty, S. Samanta and H. Chowdhury	Oral

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TS-6-047	Isolation and Characterization of Emerging Fish Pathogen <i>Chryseobacterium</i> sp. from Infected Goldfish ( <i>Carassius auratus</i> )	Srinath Rajamani, Arun Sudhagar, Arathi Dharmaratnam, Valaparambil Saidmuhammed Basheer and Uttam Kumar Sarkar	Oral
TS-6-048	Comparative Metagenomics Analysis of Farmed and Wild Murrel ( <i>Channa striata</i> ) Gut Microbiomes	Jackson Debbarma, Rajesh Kumar, Ram Prakash Raman, R. Bindu Pillai, Jitendra Kumar Sundaray, Sriprakash Mohanty, Pratap Chandra Das and Pramoda Kumar Sahoo	Oral
TS-6-049	Incidence, Antimicrobial Resistance and Virulence Genes Associated with <i>Klebsiella pneumoniae</i> in Fish Retail Markets of Visakhapatnam, Andhra Pradesh	Kusunur Ahamed Basha, B. Madhusudana Rao, Sradha Dinesh Kumar, V. Murugadas and S. Visnuvinayagam	Oral
TS-6-050	Virulent and Multidrug Resistant <i>Lactococcus garvieae</i> Isolated from Clinically Infected Oscar Fish ( <i>Astronotus ocellatus</i> ) and their Immunological Response	Arathi Dharmaratnam, Arun Sudhagar, Srinath Rajamani, Valaparambil Saidmuhammed Basheer and Uttam Kumar Sarkar	Oral
TS-6-051	Ontogeny and Tissue-Specific Expression Patterns of Immune-Related Genes in the Near-Threatened Endemic Catfish <i>Clarias dussumieri</i>	Sagar Gorakh Satkar, Arun Sudhagar, Arathi Dharmarathanam, Thangaraj Raja Swaminathan, Neeraj Sood, Cheru Parambil Abhilash, Ravi Charan and Uttam Kumar Sarkar	Oral
TS-6-052	Coincidence of Skeletal Deformities and Mortality of <i>Osteobrama belangeri</i> (Valenciennes, 1844) with Infection of a Novel Myxozoan Parasite <i>Myxidium osteobrami</i> sp. nov. (Myxidiidae, Thelohan, 1892) During Fingerling Rearing in Biofloc System	Husne Banu, Himanshu Sekhar Swain, Vignesh Velmani, Saswati Mohanty and Pratap Chandra Das	Oral
TS-6-053	Isolation and Characterization of Multiple Pathogenic Bacterial Strains from Infected Grass Carp ( <i>Ctenopharyngodon idella</i> ) and Common Carp ( <i>Cyprinus carpio</i> ) Reared in Mid-Himalayan Cages	Suresh Chandra, Neetu Shahi, Bhupendra Singh and Sumanta Kumar Mallik	Oral

TS-6-054	Assessment of Antimicrobial Resistance in <i>Aeromonas</i> Species Isolated from Freshwater Fish	Chandra Bhushan Kumar and Gaurav Rathore	Oral
TS-6-055	Whole Genome Sequencing Reveals Antibiotic Resistance and Virulence Genes in <i>Aeromonas jandaei</i> : An Emerging Pathogen Isolated from Diseased Oscar Fish ( <i>Astronotus ocellatus</i> )	Arun Sudhagar, Amala Jiji, Arathi Dharmarathnam, Sagar Gorakh Satkar, Srinath Rajamani, Anuthosh Paria, Mattalakkal Unnikrishnan Rekha and Uttam Kumar Sarkar	Oral
TS-6-056	Physicochemical and Microbial Profiles in the Marine Cage Farm Environment of Karwar, South West Coast of India	Kurva Raghu Ramudu, Imelda Joseph, Tanveer Hussain, Sujal K. Revankar, M.J. Lincy, C. Kalidas and P.P. Sureshbabu	Oral
TS-6-057	Evaluation of Biosafety and Tissue Level Residue of Oxolinic Acid Fed Orally in Graded Doses to <i>Labeo rohita</i> Fingerlings	Pushpa Choudhary, Satya Narayan Sahoo, Dillip Kumar Behera, N. Ranjit Kumar, Priyabrat Swain and Sudhansu Sekhar Mishra	Oral
TS-6-058	Negative Synergistic Effect of Sublethal Ammonia Toxicity and Bacterial Infection in <i>Clarias magur</i>	Tanushree Bhowmik, Arun Sharma, K. Pani Prasad, K.K. Krishnani, Megha K. Bedekar and Thongam Ibemcha Chanu	Oral
TS-6-059	Anti-Oomycete Potential of <i>Pseudomonas fluorescens</i> : A Molecular Docking and In Vitro Analysis against <i>Saprolegnia</i>	Khangembam Victoria Chanu, Dimpal Thakuria and Pramod Kumar Pandey	Oral
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TS-6-061	Efficiency of <i>Bacillus</i> spp. for Removing Inorganic Nitrogen in Shrimp Farms	S. Chankaew, Y. Sangnoi, S. O-Thong and P. Singh	Oral
TS-6-062	Molecular Characterization of Motile Aeromonads Associated with Septicaemic Indian Major Carps Cultured in West Bengal, India	Leesa Priyadarsani, Thangapalam Jawahar Abraham, Sayani Banerjee, Avijit Patra and Harresh Adikesavalu	Oral
TS-6-063	The Effects of Different Salinities on Some Physiological Characteristics of Freshwater Drum <i>Aplodinotus grunniens</i>	Justice Frimpong Amankwah, Haibo Wen, Liping Liu, Kang Li, Jingwei Liu, Amuneke Kennedy Emeka and Hongxia Li	Oral
TS-6-064	Accretion and Depletion of Enrofloxacin Residues, Withdrawal Period Estimation, Genotoxic and Oxidative Stress Responses in <i>Oreochromis niloticus</i>	Ratnapriya Das, Thangapalam Jawahar Abraham, Arya Sen, Sutanu Karmakar, Ranjit Kumar Nadella and Prasanna Pumar Patil	Oral
TS-6-065	Phenotypic and Genotypic Characterization of Extended-Spectrum Beta-Lactamase (ESBL) - Producing <i>Klebsiella</i> sp. from Retail Market Fish	Gopalan Krishnan Sivaraman, Sudha Sajeev, Muneeb K. Hamza, T. Raja Swaminathan, Bibek R. Shome and Mark A. Holmes	Oral



TS-6-066	Aquaculture as a Reservoir of Antibiotic-Resistant ESKAPEE Pathogens in Kerala: A Study on ARG Profiles and Biofilm Formation	T.B. Krishna, Toms C. Joseph, T. Raja Swaminathan and G.K. Sivaraman	Oral
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TS-7-001	Valuation of Watershed Sediment Retention Ecosystem Service Using InVEST SDR Model: A Case Study from Ujjani Reservoir in Bhima River, India	Vinod Kumar Yadav, Ranjana Choudhury, Ganesan Knatharajan, Chandani Prakashbhai Dave, Arpita Sharma and Mahesh Sharma	Oral
TS-7-002	Ichthyofaunal Distribution of Hooghly-Matlah Estuary: Present State of Diversity, and Threats	Dibakar Bhakta, Ranjan K. Manna, Sangeetha M. Nair, Prajna Ritambhara Swain, Chayna Jana, Arun Pandit, Srikanta Samanta, S.K. Manna and Basanta Kumar Das	Oral
TS-7-003	Distribution of Geochemical Fractions of Phosphorus and its Ecological Risk in Mangrove Sediment Cores from the World's Largest Delta: Insight into the Source, Bioavailability and Eutrophication	Ajoy Saha, Pranab Gogoi, B.K. Das and Pritijyoti Majhi	Oral
TS-7-004	Mass Nesting of Olive Ridley Turtle ( <i>Lepidochelys olivacea</i> ) in Rushikulya Rookery, Odisha: Does it Have Any Impact on Biocoenosis in Rushikulya River-Estuary?	Pranab Gogoi, B.K. Das, S.K. Das, A.K. Jaiswar, P. Panikkar, S. Samanta and S.K. Manna	Oral
TS-7-005	Predictive Modelling of Chlorophyll-a Concentration along Mumbai Coastal Waters: A Machine Learning Approach	Karankumar K. Ramteke, Latha Shenoy, Pankaj Prasad, B.B. Nayak, Geetanjali Deshmukhe, Arun B. Inamdar, Trishna Rajkhowa and V.V. Singh	Oral
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TS-7-008	Ecological Health Assessment, Fish Community Structure and Physico-Chemical Properties of Narmada Estuary, India	Bigan Kumar Sahoo, Ganesh Chandra, Basanta Kumar Das, S.P. Kamble, C.M. Roshith, A.M. Sajina, Vikas Kumar, Hemanta Chowdhury and Archan Kanti Das	Oral

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## TS-8: Climate Change on Fisheries & Aquaculture and Resilient Strategies

Abstract No.	Title	Authors	Mode
	Enhancing Climate Resilience of Fisheries and Aquaculture Sectors in the Asian Region	<b>Angela Lentisco</b> FAO Regional Office for Asia and the Pacific, 39 Phra Athit Road, Phra Nakorn, Bangkok, Thailand	Lead Speaker
TS-8-001	Change in Ecosystem Services Valuation of Dimbhe Reservoir, Maharashtra Under the Climate Change Scenario	Dave Chandani Prakashbhai, Vinod Kumar Yadav, Liton Paul, Arpita Sharma, G. Kantharajan and Ranadheer Mandadi	Oral
TS-8-002	Development of Ecological Modeling for Indian Fisheries: Present Status and Future Scope to Understand Fishery Variability and Climate Change Impacts	Faseela Hamza, Vinu Valsala and I.V.G. Bhavani	Oral
TS-8-003	Impact of Cyclone-Induced Extremely Heavy Rainfall and Flood on Pond Water Quality and Shrimp Immunological Parameters: A Case Study in Andhra Pradesh	D. Gopinath, M. Muralidhar, M. Jayanthi, J. Syama Dayal, O. Sravanthi, M. Dharmadurai and R. Rajesh	Oral
TS-8-004	Differential Proteomic Responses in Rohu ( <i>Labeo rohita</i> ) to Combined Heat and Salinity Stresses	Mohan R. Badhe, Priyanka Das, Sonalina Sahoo, Arijit Sahoo, Anirban Paul, Pramoda Kumar Sahoo, Priyanka C. Nandanpawar, Kanta Das Mahapatra, Naresh S. Nagpure, Mukunda Goswami and Jyotirmaya Mohanty	Oral
TS-8-005	Characterization of Metabolite Signatures in Gift Tilapia ( <i>Oreochromis niloticus</i> ) Exposed to Acute Thermal Stress Using Untargeted Metabolomics and Chemometric Analysis	T. Paul Nathaniel, Tincy Varghese, Niladri Sekhar Chatterjee, C.S. Tejpal, R. Anandan, D. Asutosh Deo, K. Vasanthakumaran and Subodh Gupta	Oral
TS-8-006	Influence of Cropping Pattern and Culture Practices on Greenhouse Gases Emission in Shrimp Farms	M. Muralidhar, P. Kumararaja, R. Saraswathy, S. Suvana, A. Nagavel, M. Jayanthi and J. Syama Dayal	Oral
TS-8-007	Remarkable Role of Iron Nanoparticles in Enhancing Thermal Efficiency and Gene Regulation in Fish Under Multiple Stress Conditions	Neeraj Kumar, Paritosh Kumar, S.A. Kochewad and Kotha Sammi Reddy	Oral
TS-8-008	Thermal Effects on the Early Life Stages of Silver Pompano, <i>Trachinotus Blochii</i>	Krishna Sukumaran, P.S. Pooja, Ambarish P. Gop, A. Anuraj, G. Rathi Bhuvaneswari, Archana Satheesh, Liyakath Ali, Muhammed Arshadudeen, S. Nisha, A.P. Dineshbabu, B.	Oral

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TS-8-009	Temperature Stress Induced Gene Expression Changes in Bivalve <i>Gafrarium divaricatum</i> (Gmelin, 1791)	B. Divya, M.P. Brahmane, K.D. Rasal, A.S. Sonwane, N.S. Nagpure and M. Goswami	Oral
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TS-8-011	Shoreline Change Assessment and the Impact of the Management Measures in Dynamic Coast Through Digital Shoreline Analysis System (DSAS): A Case Study in Muttukadu Region of Chengalpattu District, Tamil Nadu	S. Thirumurthy, M. Jayanthi, M. Samynathan and P.S. Akshay	Oral
TS-8-012	Biomass Production and Carbon Sequestration Potential of Cultured Red Algae: A Strategy for Climate Change Mitigation	L. Ranjith, C. Kalidas, D. Lingaprabu, D. Sarathapriya, A. Mathan Babu, K. Karuppasamy, L. Loveson Edward and G. Grinson	Oral
TS-8-013	Reservoir Fisheries Management Tools for Improved Livelihood of Stakeholders in Climate Change Scenario	A.K. Das and B.K. Das	Oral
TS-8-014	Knowledge Level and Socio-Economic Determinants of Adopting Climate Resilient Practices: The Case of Aquaculture Farmers in Odisha, India	Baban Bayan, Amar Gaikwad, Venkata Narayana Mullapudi, Aparajita Priyadarshini, Arun Padiyar and Cristiano Rossignoli	Oral
TS-8-015	Responses of Dietary Folic Acid on Gonadal Recrudescence and Maturation in Female <i>Anabas testudineus</i> (Bloch, 1792) Exposed to Hyperthermal Stress	M. Subashini, G.H. Pailan, Sujata Sahoo, Tincy Varghese and Kedar Nath Mohanta	Oral
TS-8-016	Effect of Hyperthermal Stress on the Physio-Biochemical Responses of GIFT Tilapia Reared in Inland Saline Water of Different Salinities	Shivangi Bhatt, Narottam Prasad Sahu, Subodh Gupta and Tincy Varghese	Oral
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TS-8-018	Early Life Thermal Programming in Rainbow Trout: Evaluation of a Novel Climate-Resilience Approach	Biju Sam Kamalam, Manchi Rajesh, Pratibha Baral, Anupam Pandey, Maneesh Kumar Dubey, Rabindar Singh Patiyal, Pramod Kumar Pandey and Prakash Sharma	Oral
TS-8-019	Resilience Strategies of Fishermen Communities in the Panichapra Haor of Bangladesh: Navigating the Impacts of Flash Floods and Prolonged Droughts	Diponkor Adikari, Oisherjo Chakrobortty Oishe and Debasish Pandit	Oral



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TS-8-021	Assessing Environmental Impacts on CPUE: A Regional Analysis using Generalized Additive Models	Alphonsa Joseph, Eldho Varghese, J. Jayasankar, Grinson George, Rose P. Bright, Vineetha Gopinath, Nanda Kishore, M. Shanthi and Ratheesh Kumar	Poster
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TS-8-025	Comparative Analysis of Net Tube and Monoline Culture Techniques for Seaweed Farming and its Carbon Storage Potential in Climate-Resilient Aquaculture Along the Kutch Coast, Gujarat	Aarsha Subramanian, D. Divu, Suresh Kumar Mojjada, P.S. Swathi Lekshmi, P. Abdul Azeez, S. Mayur Tade, Jayesh Devaliya, Sagar Jadav, T.S. Ramshad, Prachi Bagde and Dhanush Janarthanan	Poster
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TS-8-031	Effect of Hyperthermal Stress on the Social Behaviour and Growth Performance of All-Male Genetically Modified Farmed Tilapia	Anu Baiju, Subodh Gupta, S. Akhila, T. Paul Nathaniel, Narottam Prasad Sahu and Tincy Varghese	Poster
TS-8-032	Greening Aquaculture's Blue Growth through Nature-based Climate Solutions	R. McMillan	IDRC-WorldFish Panel Discussion

### TS-9: Post-Harvest Processing, Value-addition and Food Safety

Abstract No.	Title	Authors	Mode
	Shrimp Chitooligosaccharide-Polyphenol Conjugates: Novel Additives for Seafoods	<b>Soottawat Benjakul</b> International Center of Excellence in Seafood Science and Innovation, Faculty of Agro-Industry, Prince of Songkla University, Thailand	Lead Speaker
TS-9-001	Transforming the Future of Marine Waste Resources: A Blue Biorefinery Approach towards Circular Economy	Deepika Dave	Oral
TS-9-002	Optimization and Evaluation of Fish Patty Fortified with Dietary Fibre	Nazrin S. Ahmed, A.R. Sen, Abdul Aziz, K.C. Dora and S. Chowdhury	Oral
TS-9-003	Nutritional Profile and Compositional Characteristics of Deep-sea Shrimp <i>Penaeopsis jerryi</i> from the Arabian Sea	P.V. Vidhya and Rekha Devi Chakraborty	Oral
TS-9-004	Fish Processing Industries in India: Growth and Productivity Aspects	A. Suresh and I.D. Rajesh	Oral
TS-9-005	CFD Analysis of Smoke Flow and Heat Distribution in A Fish Smoking Chamber	K.C. Neethu, G. Hardik, K.K. Onesimos, S. Murali, D.S. Aniesrani Delfiya and G. Ninan	Oral
TS-9-006	Pilot Scale, Conveyor Type Infrared Dryer with Hot Air Assistance for Fish Drying: Development and Performance Evaluation	D.S. Aniesrani Delfiya, S. Murali, K.C. Neethu and George Ninan	Oral
TS-9-007	Exploring the Potential of Carbon Nanodots (CND) Synthesized from Fish Eyes to Enhance the Shelf Life of Chilled Indian Mackerel ( <i>Rastrelliger kanagaruta</i> )	Femeena Hassan, S.J. Laly, Muhamed P. Ashraf and A.A. Zynudheen	Oral
TS-9-008	A Smart Portable Device for Rapid On-Site Assessment of Fish Freshness	S. Murali, D.S. Aniesrani Delfiya, V. Murugadas, P.K. Binsi and George Ninan	Oral
TS-9-009	Influence of Glycerol on the Enhancement of Functional Properties in Apple Pectin/Konjac Glucomannan/Fish Myofibrillar Protein Composite Films	S.S. Nongthongbam, B.K. Pati, A. Vaishnav, N.K. Mehta and M.B. Priyadarshini	Oral
TS-9-010	Development and Quality Assessment of High-Protein Meat Powder and Instant Soup Mix from An Underutilized Bivalve, <i>Meretrix meretrix</i>	P. Viji, S. Sireesha, P.K. Binsi, Jesmi Debbarma, S. Remya and George Ninan	Oral
TS-9-011	Rapid Softening of Mantis Shrimp Meat During Iced Storage: Role of Endogenous Proteases and its Prevention	Mallikarjun Chanchi Prashanthkumar and Soottawat Benjakul	Oral
TS-9-012	Development of a DNA Biosensor for the Authentication of Pacific White Shrimp ( <i>Penaeus vannamei</i> ) in Raw and Processed Shrimps	Lidiya Wilwet, P. Muhamed Ashraf and Toms C. Joseph	Oral

TS-9-013	Emergence of Antibiotic-Resistant <i>Escherichia coli</i> in Seafood: A Threat to Public Health and Food Safety	Asem Sanjit Singh, Manoharmayum Shaya Devi and H. Sanathkumar	Oral
TS-9-014	Developing A Portable Near-Infrared Reflectance (NIR) Device and Machine Learning Algorithms for Onsite Authentication of Species Identity of Seafood	Niladri Sekhar Chatterjee, Pranamya C. Haridas, Rajesh Ravichandran, Pankaj Kishore and Satyen Kumar Panda	Oral
TS-9-015	Development of Innovative Synbiotics Incorporated with Unconventional Seaweed-Derived Prebiotics for Future Functional Food Applications	S. Remya, P.V. Suvina, U. Athira, Toms C. Joseph, C.O. Mohan and J. Bindu	Oral
TS-9-016	Importance and Potential of Microalgae: Future of Aquaculture (Sustainable Sources of Feeds), Industries (High Value-added Products) and Climatic Changes	Shoji Joseph, Radhima Rajmohan and Anju Soma	Oral
TS-9-017	Effect of Proteolytic Enzyme on the Production of Hetero Chitosan Oligomers from Chitosan	V. Renuka, K. Elavarasan and R. Anandan	Oral
TS-9-018	Colorimetric LAMP and mPCR-LFD Assay: A Promising Approach for Rapid Identification of Commercially Important Crustaceans	Gururaj Moorthy, Soottawat Benjakul and Jirakrit Saetang	Oral
TS-9-019	Turning <i>Echinorhinus brucus</i> Liver into an Omega-3 PUFA Rich Oil Source via Greener Extraction Protocol – A Detailed Insight	R.G. Lekshmi Kumar, K.K. Anas, C.S. Tejpal, C.G. Joshy, R. Anandan and Suseela Mathew	Oral
TS-9-020	Pathotype Distribution, Virulence and Antibiotic Resistance of <i>Escherichia coli</i> from Seafood of Retail Market of Veraval, Gujarat	T.K. Anupama, Rajshree R. Jena, B.S. Bipul, K. Sarika, S. Sreejith, Ashish Kumar Jha and Toms C. Joseph	Oral
TS-9-021	Influence of Brown Seaweed ( <i>Sargassum wightii</i> ) Inclusion on Nutritional Quality and Antioxidant Properties of Fish Crackers	Praseed Sarkar, Mandakini Devi Hanjabam, Suman Manna, Leesa Priyadarsani, Layana Porayil, Binaya Bhusan Nayak, K.A. Martin Xavier, Elavarasan Krishnamoorthy and Tapas Kumar Ghoshal	Oral
TS-9-022	Comparison of Liquid Form of Nano-ZnO-Chitosan Composite with its Powder Form for Biomedical Applications	S. Visnuvinayagam, T. Raja Swaminathan, V. Murugadas, Vinu Vijayan, R. Anandan, Toms C. Joseph and George Ninan	Oral
TS-9-023	Health Risk Assessment of Potentially Hazardous Materials in Fish Along NE Arabian Sea, Indian Coast	Ashish Kumar Jha, Pankaj Kishore, Niladri Chaterjee, S. Chinnadurai, Sumit Kumar Verma, Rajan Kumar, Devanand Uchoi, S. Sreejith and K. Sarika	Oral
TS-9-024	Optimizing the Extraction Protocol for $\beta$ -Chitin and Chitosan from Squid Pens: Structural and Functional Perspectives	K. Sarika, Ashish Kumar Jha, S. Sreejith, T.K. Anupama and J. Bindu	Oral

TS-9-025	Sequential Extraction of Phenolics and Semirefined Carrageenan from <i>Kappaphycus alvarezii</i> : A Biorefinery Approach for Seaweed Valorization	S. Dharani, P. Layana, B.B Nayak, A.K. Balange, Martin Xavier and L. Manjusha	Oral
TS-9-026	Impact of Polyphenols on Myoglobin Redox State and Prevention of Discoloration and Quality Changes of Refrigerated Longtail Tuna ( <i>Thunnus tonggol</i> ) Slices	Suguna Palanisamy, Avtar Singh, Bin Zhang, Qiancheng Zhao and Soottawat Benjakul	Oral
TS-9-027	A Value Chain Model for Effective Utilisation of Black Clam ( <i>Villorita cyprinoides</i> ) Resources of Kerala	J. Bindu, S. Sreejith and Nikita Gopal	Oral
TS-9-028	Storage Conditions Affect Consumer Preferences for Export-Oriented Giant Freshwater Prawn in Sri Lanka	A.U. Kuragodage, K.H.M. Ashoka Deepananda, U.A.D. Jayasinghe and Clive Jones	Oral
TS-9-029	Beyond the Scale: Fish Gelatin Peptides from Lethrinid Scales and their Bioactive Potential	Abhinanda Jena, B. Sivaraman, Vijayakumar Renuka and Rajendran Shalini	Oral
TS-9-030	Dynamics of Methicillin-Resistant <i>Staphylococcus aureus</i> (MRSA) Survival in Raw and Cooked Shrimp under Frozen Storage Conditions	Pooja Saklani, Md. Aman Hassan, Parmanand Prabhakar, Manjusha Lekshmi, Binaya Bhusan Nayak and H. Sanath Kumar	Oral
TS-9-031	Natural Based Coating Solution Chitosan, Fish Protein Isolate and <i>Wolffia globosa</i> Extract on The Shelf-Life Extension of Refrigerated <i>Litopenaeus vannamei</i>	Lalbiakguri M. Bhargavi Priyadarshini	Poster
TS-9-032	Influence of Chitooligosaccharide on Physiochemical and Functional Properties of Pangasius Surimi Gel	B.K. Pati, N.K. Mehta, A.B. Patel, K.A.M. Xavier, A.D. Upadhyay, N.S. Singh, A. Vaishnav and M.B. Priyadarshini	Poster
TS-9-033	Development of Beetroot Powder Fortified Burger Patty Premix Incorporated with Fish Surimi Powder	Tanuja Kulshrestha	Poster
TS-9-034	Recycling of Shrimp Shell Waste into Nano Chitosan Biopolymer: Exploring In Vivo and In Vitro Applications	Barsha Baisakhi, Basanta Kumar Das, Karmabeer Jena and Jyotirmayee Pradhan	Poster
TS-9-035	Authentication of Salmonid Species Using High-Resolution Melting Analysis: A Comparative Study of COI and ND1 Gene	Deep Nithun Senathipathi, Soottawat Benjakul and Jirakrit Saetang	Poster
TS-9-036	Detection of Multidrug Resistance Seafood-Borne Non-Typhoidal <i>Salmonella</i> Serovar Newport in Seafood from Fish Landing Centres and Fish Markets in Mumbai, India	Parmanand Prabhakar, Manjusha Lakshmi, Toms C. Joseph, Binay Bhusan Nayak and H. Sanath Kumar	Poster
TS-9-037	Smart Fishing: Blockchain Technology in the Field of Seafood Traceability and Authenticity	Dikshya Mohanty, Santosh Kumar Udgata, Soumya Priyadarshini, Brundaban Sahu, Abhinanda Jena and Arpit Acharya	Poster

TS-9-038	A Study on Review of Some Ethnic Traditional Methods of Fish Smoking in Manipur, India	Shagolsem Aruna Chanu, I. linthoingambi and Catherine Ngangbam	Poster
TS-9-039	Extraction and Quantification of Freeze-Dried Sarcoplasmic Protein from <i>Pangasianodon hypophthalmus</i> (Sauvage, 19780) Surimi Wash Water with Effect of Precipitation	Md. Aman Hassan, Pooja Saklani, Parmanand Prabhakar, Sarvendra Kumar, K.M. Xavier and A.K. Balange	Poster
TS-9-040	Valorization of Catla ( <i>Catla catla</i> ) Visceral Waste Derived Peptone and its Application as a Potential Culture Media Ingredient	Shivbhajan Bahni Dhar and Pritha Kumar	Poster
TS-9-041	Newly Formulated Biodegradable Tertiary Packaging Material Developed Using Sustainable Resources	A. Anjana, S.P. Shukla and Vipul Singh Badguzar	Poster

## TS-10: Socio-Economic Dynamics & Extension in Fisheries and Aquaculture

Abstract No.	Title	Authors	Mode
	Socio-Economic Dynamics and Extension in Fisheries and Aquaculture	<b>Alice Joan G. Ferrer</b> University of the Philippines Visayas, Miagao, Iloilo, Philippines	Lead Speaker
TS-10-001	Exploring the Demographics, Practices, and Challenges in Marine and Coastal Cage Aquaculture	Saju George, Imelda Joseph, Shoji Joseph, A. Anuraj, B. Santosh, M. Sekar, M.T. Shilta, Joe K. Kizhakudan, G. Tamilmani, C. Kalidas, Ambarish P. Gop and N. Rajesh	Oral
TS-10-002	Impact of COVID-19 on the Indian Marine Fisheries Sector: A Difference-in-Differences Analysis	A.R. Anuja, Shyam S. Salim, Akhila Kumaran, R. Narayana Kumar and J. Jayasankar	Oral
TS-10-003	Role of Inland Capture Fishing in Employment Generation: A Study Across the States of India	Arun Pandit, B.K. Das, D.N. Jha, Suhas P. Kamble, V.R. Thakur, Simanku Borah, A.K. Yadav, Ajoy Saha, T.T. Paul, P.K. Parida, Pranab Patra and M. Karthikeyan	Oral
TS-10-004	Impact Assessment of Aquaculture Technologies Using Econometric Tools	S.R. Naffees Gowsar, R. Geetha, Prasanna Kumar Patil and T. Ravisankar	Oral
TS-10-005	An Economic Evaluation of Mussel Farming in a Tropical Estuary in Northern Kerala, India	V.V. Geethu Gopinathan, K. Vinod and P.K. Asokan	Oral
TS-10-006	Artificial Reefs and Livelihoods: Assessment of Socio-Economic Status of Fishers' Stakeholders in Reef Deployed Areas in Southern Districts of Tamil Nadu	R. Narayanakumar, P. Laxmilatha, Joe K. Kizhakudan, Shoba Joe Kizhakudan and K. Diwakar	Oral
TS-10-007	Small Indigenous Fish (SIF) for Nutritional Security: Marketing and Consumption Pattern in Lower Gangetic Floodplains in India	Piyashi Deb Roy, B.K. Das and D.C. Yateesh	Oral
TS-10-008	Marginal Fishers Belongs to Bhumij Tribal Community Empowered Through Integrated Coastal Pond Farming at Balasore, Odisha	Rajesh Kumar Pradhan, Gyanaranjan Dash, Swatipriyanka Sen, Biswajit Dash, Madhumita Das, K. Joe Kizhakudan, K. Madhu, Rema Madhu and Shubhadeep Ghosh	Oral
TS-10-009	A Scientometric Analysis of Global Research Trends on Socio-Ecological Vulnerability in Fisheries	Liton Paul, Basanta Kumar Das, D.C. Yateesh, Aparna Roy, Piyashi DebRoy, Shreya Bhattacharya, Anurag Singh and Gitashree Thengal	Oral
TS-10-010	A Comprehensive Study on the Ecological Health of Kosi River and	Anurag Singh, Basanta Kumar Das, Subhadeep Das Gupta, Liton Paul, D.C. Yateesh,	Oral

	Livelihood Status of its Dependent Fishing Communities	SushilKumar Verma, Suraj Kumar Chauhan, Gitashree Thengal and Trupti Rani Mohanty	
TS-10-011	Household Fish Consumption in India: Insights from the Latest Consumption Survey	I. D. Rajesh and A. Suresh	Oral
TS-10-012	Pond-Based Integrated Farming: A Pathway to Economic Empowerment for Farmwomen	Harapriya Nayak, P.R. Sahoo, S. Singh and S. Behera	Oral
TS-10-013	Community Aquaculture: A Case Study of Women SHGs in Adopting Fish Culture in Community Ponds	P.R. Sahoo, H.P. Nayak, S. Singh and S. Behera	Oral
TS-10-014	Mapping the Ornamental Fisheries Research Landscape Using Scientometric Analysis	Vaneet Inder Kaur, Nirmal Singh, Amit Mandal, Tarvinder Singh, Mutum Deepti and Antareepa Saikia	Oral
TS-10-015	Impact of Price Volatility on the Profitability of Asian Seabass ( <i>Lates calcarifer</i> , Bloch, 1790) Farming: Evidence from Andhra Pradesh, India	Palsam Karthik Kumar Goud and Ankush Lala Kamble	Oral
TS-10-016	Fish Cage Culture in Sardar Sarovar Reservoir: An Economic Assessment	Shyam Waghmare, Arpita Sharma, Vijendra Kumar, Ram Kumar Kurmi, T. Jeevan, Sukham Munilkumar, A.K. Jaiswar, Kapil Sukhdhane, Karankumar Ramteke, Shubham Soni and Bhalachandra Vilas Naik	Oral
TS-10-017	Assessment of Socio-Economic Impact of Artificial Reefs Deployment in Gaja Cyclone Affected Districts of Ramanathapuram and Pudukottai District of Tamil Nadu	B. Johnson, R. Narayanakumar and A.K. Abdul Nazar	Poster
TS-10-018	Improved Livelihood of Tribal Fishers of Jharkhand through Scampi Fisheries Enhancement in Small Reservoirs	A.K. Das, B.K. Das, P. Mishal, Raju Baitha, Upama Das, Mukesh Kumar Ram and Manish Kujur	Poster
TS-10-019	Improving Small-Scale Fisheries Viability through Cooperative Initiative: A Case Study of Sumaura Fisheries in Kobe City, Japan	Yinji Li	Poster
TS-10-020	Livelihood Diversification and Household Economic Security During Covid-19 Pandemic: Insights from Small-Scale Fisher Households in Kerala State, India	N. Aswathy, A.R. Anuja, V.P. Vipinkumar and J. Jayasankar	Poster
TS-10-021	A Glimpse on STI Hub in Fisheries Sector for Improved Livelihood Entitlements in Kerala	V.P. Vipinkumar, C. Ramachandran, Boby Ignatius, J. Jayasankar, P.S. Swathilekshmi, N. Aswathy, Reshma Gills, A.R. Anuja, N. Rajesh, P.V. Athira,	Poster



		P.S. Sary, K.V. Binitha, R.X. Smitha, T.V. Ambrose and Grinson George	
TS-10-022	Fostering Growth: Insights into Fisheries Development in Chhattisgarh and Madhya Pradesh	Nitika Singh, P.S. Ananthan and Naila Majid Bhatt	Poster
TS-10-023	Fishery Nutrient Profiles: A Practical Tool for Nutrition-sensitive Fisheries Management	Lorenzo Longobardi, Gianna Bonis-Profumo, Hamza Altarturi, Jessica Bogard, Joctan Dos Reis Lopes, Jeppe Kolding, Villiam Sozinho and Alexander Tilley	Poster
TS-10-024	Assessment of Socio-economic Impact of Artificial Reefs Deployment in Gaja Cyclone Affected Districts of Nagapattinam and Thanjavur of Tamil Nadu, India	B. Johnson, R. Narayanakumar and A.K. Abdul Nazar	Poster
TS-10-025	Pollution in the Jalangi River and its Socioeconomic Ramifications for Fishers' Livelihoods	Gitashree Thengal, B.K. Das, Anurag Singh, Liton Paul and D.C. Yateeshh	Poster
TS-10-026	Occupational Hazards Faced by Fish and Shrimp Farm Workers in West Bengal	Sayantan Das, Amitava Ghosh, Arpita Sharma, Vasant Kripa, Vinod K. Yadav, Swadesh Prakash, Suchismita Prusty, Rajiv Rathod, Shubham Soni and Bhalchandra Vilas Naik	Poster
TS-10-027	Exploring the Fisheries Cooperatives Involved in Cage Culture in the Sardar Sarovar Reservoir, Maharashtra	Vijendra Kumar, Arpita Sharma, Ram Kumar Kurmi, Shyam Waghmare, T. Jeevan, Sukham Munilkumar, A.K. Jaiswar, Kapil Sukhdhane, Karankumar Ramteke, Shubham Soni and Bhalachandra Vilas Naik	Poster
TS-10-028	Livelihood Analysis of Gillnet Operators of Ratnagiri, Maharashtra State	M. Bharat Yadav, S.B. Prabhat, K.J. Chaudhari, S.V. Patil, N.D. Chogale, S.M. Wasave, B.V. Naik and V.G. Yewale	Poster
TS-10-029	Mussel Farming as a Sustainable Solution Enhancing Economic Resilience and Livelihood Among Coastal Fisherfolk	P.S. Sary, P.V. Athira, Binitha K. Vijayan, R.X. Smitha, Reshma Gills, B. Jenni, T.V. Ambrose and V.P. Vipinkumar	Poster
TS-10-030	Edible Oyster Farming as a Catalyst for Socio-Economic Development of Coastal Community: A Case Study from Ashtamudi Lake	P.V. Athira, P.S. Sary, K.V. Binitha, R.X. Smitha, Reshma Gills, B. Jenni, T.V. Ambrose and V.P. Vipinkumar	Poster
TS-10-031	Empowering Coastal Communities: Promoting Sustainability through Fish Value Addition	Binitha K. Vijayan, P.S. Sary, P.V. Athira, R.X. Smitha, Reshma Gills, T.V. Ambrose and V.P. Vipinkumar	Poster
TS-10-032	Bridging Technology and Tradition: Possibilities for Developing an ICT	Annastaycya S. Sangma, Biswajit Lahiri, Amitava Ghosh,	Poster

	Framework to Support Recreational Fisheries	Prasenjit Pal, Pradyut Biswas, Hoilenting and Martina Meinam	
TS-10-033	Group Dynamics and Performance Appraisal of Fisheries Based Self Help Groups (SHGs) in Tripura	Tripti Tanjay	Poster
TS-10-034	Willingness to Reduce Single-Use Plastic Waste Along the Fisheries Value Chain: Philippines	M. Bañez-Sumagaysay, G. Enerlan and A.F. Bulawan	ASSRN-AFS Special Session
TS-10-035	Understanding Knowledge, Perception, and Attitude Toward Willingness to Reduce Single-use Plastic Waste at Small-scale Fish Landing Sites in Indonesia	Armen Zulham, Muhammad Helmi Falah, Nami Lestari, Erlania, Fety Widiанти Aptasari <sup>3</sup> , Tri Heru Prihadi, Shanaz N. Arina and Zuriat	ASSRN-AFS Special Session
TS-10-036	Knowledge, Perception and Attitude of Stakeholders on Single-Use Plastic and its Effects on the Marine Environment: A Gendered Value Chain Analysis of Fisheries in Mumbai, Maharashtra	Neha W. Qureshi, Saba Nabi, Nikita Gopal and Talib Mohammed	ASSRN-AFS Special Session

### TS-11: Gender in Fisheries & Aquaculture

Abstract No.	Title	Authors	Mode
	Rethinking Gender Research in the Era of Big Aquaculture and Fisheries Transformations	<b>Nikita Gopal</b> and Meryl J Williams Chair, Gender in Aquaculture & Fisheries Section of the Asian Fisheries Society	Lead Speaker
TS-11-001	Evaluation of <i>Cyprinus carpio</i> , <i>Barbonymus gonionotus</i> and <i>Labeo rohita</i> as Potential Candidate Species for Mid-Altitude Reservoir Cages with Fisherwomen Participation of Northeast India	Pronob Das, Basanta Kumar Das, Birendra Kumar Bhattacharjya, Sanjay Kumar Das, Simanku Borah, Tasso Tayung, Alakesh Das, Dharmendra Kumar Meena, Sona Yengkokpam, Prasanta Mahanta, Amulya Kakati and Sullip Kumar Majhi	Oral
TS-11-002	Nursery Rearing of Milkfish, <i>Chanos chanos</i> as A Livelihood Activity by The Self-Help Group of Navsari District, Gujarat	P.A. Patil, T. Hussain, A. Bera, M. Kailasam and P. Mahalakshmi	Oral
TS-11-003	Bivalve Mariculture-A Way for Livelihood and Women Empowerment of Coastal Communities of Kerala	R. Vidya, Geetha Sasikumar, P.S. Alloyicious, K.M. Jestin Joy, K.K. Sajikumar and A.P. Dineshbabu	Oral
TS-11-004	Lifting the Imperceptible Veil of Women in Small Scale Fisheries: Are Fisherwomen Devaluing their Real Worth? A Transect in the Less Explored Coastal Tracts of Gujarat, India	P.S. Swathi Lekshmi, V.P. Vipinkumar, R. Narayanakumar, J. Jayasankar, Divu Damodaran, Suresh K. Mojjada, Hashmukh Rathod and Bhargav Bhatt	Oral
TS-11-005	Gender and Coping Strategies During Covid Pandemic across Marine Fisher Households in India	Shyam S. Salim, Akhila Kumaran, A.R. Anuja, R. Narayanakumar, Sujitha Thomas, Santhosh Bhendekar, Subal Kumar Roul, P.V. Sunil and Steny Rebello	Oral
TS-11-006	Navigating Climate Challenges: Women Empowerment Through Small-scale Aquaculture in Indian Sundarbans	Aparna Roy and Basanta Kumar Das	Oral
TS-11-007	Trans: The 3 <sup>rd</sup> Gender Inclusive Perspective in Indian Fisheries Sector: Paving the Way for Gender Mainstreaming and Empowerment	V.P. Vipinkumar, A. Gopalakrishnan, Reshma Gills, P.S. Swathilekshmi, A.R. Anuja, Charles Jeeva, C. Ramachandran, R. Narayanakumar, J. Jayasankar, P.S. Sary, P.V. Athira, K.V. Binitha, R.X. Smitha, T.V. Ambrose and Grinson George	Oral

TS-11-008	Inclusivity of Transgender in Fisheries Sector: Taking the Concept of Gender Mainstreaming Forward and Upward	Pooja Priyadarshini, Santosh Kumar Udgata, Brundaban Sahu, Dikshya Mohanty, Manoj Kumar Tripathy, Abhinanda Jena and Arpit Acharya	Oral
TS-11-009	Gender Analysis in Fisheries and Aquaculture Education, Research and Extension in Nepal	S. Rai, U. Sah and Sumitra Laudari	Oral
TS-11-010	Analysing Filipino Women Polychaete Fishers' Lives from the Lens of Feminist Political Ecology	Alice Prieto-Carolino	Oral
TS-11-011	Participation of Women in Integrated Fish and Vegetable Farming to Improve Household Nutrition and Income	Dibya Jyoti Nayak, S. Tanuja, Dharitri Choudhury, Santosh Kumar Udgata, Prajnanu Ranjan Sahoo and Sidharth Shankar Das	Poster
TS-11-012	Influence of Gender on the Management of Ganges Floodplain-Wetland Resources in and Around Patna Region	Syed Shabih Hassan	Poster

## TS-12: Fisheries Education, Skill Development and Technology Incubation

<b>Abstract No.</b>	<b>Title</b>	<b>Authors</b>	<b>Mode</b>
TS-12-001	Role of Capacity Building Resource Centre for Intensive Aquaculture Technologies, Punjab in Socio-Economic Development of Aquaculture Sector in the North-Western Region of India	Surjya Narayan Datta, Amit Mandal, Meera D. Ansal and Vaneet Inder Kaur	Oral
TS-12-002	Quantifying and Modelling Contribution of Human Capital Produced by Fisheries Universities to the Indian Economy	W. Neha Qureshi, P.S. Ananthan, Abhilash Thapa, Talib Mohammed and Naila Majid Bhat	Oral
TS-12-003	Game-Based Learning and Immersive Technologies: A Modern Framework for Fisheries Education	S. Abuthagir Ibrahlim, B. Chanikya Naidu and R. Bharathi Rathinam	Oral
TS-12-004	Integrating Multiple Scientific Fisheries Information Resources with a Pretrained AI Model: A CMFRI Initiative	P.S. Arun Surendran, V.K. Manu, K.S. Sobhana and Grinson George	Oral
TS-12-005	From Pixels to Parameters: Citizen Science, Smart phone and Satellite Synergy for Water Quality and Sustainable Fisheries in Lake Vembanad, Kerala, India	C. Ancy Stoy, N. Nandini Menon, R. Ranith, Grinson George and K.G. Mini	Oral
TS-12-006	Skill Development in Fisheries and Aquaculture: Avanti Foundation	A.K. Reddy, K. Phani Prakash, S. Mohanty, D. Sunil Kumar and Ch. Brahma Reddy	Oral

### TS-13: Fish Marketing, Value Chains and Trade

Abstract No.	Title	Authors	Mode
	Fisheries and Aquaculture Products: Recent Trends, Challenges and Opportunities	<b>Marcio Castro De Souza</b> Fisheries and Aquaculture Division, Food and Agriculture Organization of the United Nations, Rome, Italy	Lead Speaker
TS-13-001	Market Structure Dynamics and Comprehensive Quality Evaluation of Selected Fish Species in Fish Markets of Punjab	N.A. Pargi, S.N. Datta, A. Tyagi and G. Tewari	Oral
TS-13-002	An Insight into the Market-Oriented, Climate-Driven Seasonal Landing of Large-Sized Black-Spotted Croaker ( <i>Protonibea diacanthus</i> ): A Case Study from the Palk Bay of Tamil Nadu	L. Remya, Joseph Jegan, R. Suresh, M. Rajkumar and Shoba Joe Kizhakudan	Oral
TS-13-003	Value Chain Analysis of Pangas ( <i>Pangasianodon hypophthalmus</i> ) Marketing in Northern States in India	Armaan U. Muzaddadi	Oral
TS-13-004	India's Shark Fin Exports: Status, Assessment of Ban Implementations and Preliminary Species Composition of Shark Fin Trade	K.V. Akhilesh, Shikha Rahangdale, Sandhya Sukumaran, C. Anulekshmi, M. Muktha, Swatipriyanka Sen, S. Surya, T.M. Najmudeen, Merwyn Fernandes, P. Anil Kumar, Sujitha Thomas, P.U. Zacharia and S.J. Kizhakudan	Oral
TS-13-005	India's Marine Products Export Competitiveness Through Revealed Comparative Advantage	Neethu Mol Jacob and A. Suresh	Oral
TS-13-006	Development of Fish Seed Supply Chain for Sustainable Growth in Aquaculture in NE Region of India	A.D. Upadhyay, Himashu Priyadarshi, Prasenjit Pal, Y. Jackie Singh and Sai Poornima Chalumuri	Oral
TS-13-007	Assessing the Regional Fish Consumption in India: Perspectives and Paradigms	Shyam S. Salim, N.R. Athira, Lowrane Stanley, S.S. Raju, R. Narayanakumar and Charles Jeeva	Oral
TS-13-008	Fish Anesthetizing and Recovery Machine for Waterless Transportation of Live Fish	Vikas Kumar, Ranjit Singh and A.U. Muzaddadi	Oral
TS-13-009	Impact of Including Small Fish Powder in Children's Diet Plans: A Potential Strategy for Alleviating Assam's Dual Burden Malnutrition	Baishnaba Charan Ratha, Baban Bayan, Neetha Shenoy and P. Arun Padiyar	Oral
TS-13-010	Efficacy of Herbal Sedative for Transportation of Live Hilsa Shad	Arghya Kunui, Basanta Kumar Das, Saurav Kumar Nandy, Dhruva Jyoti Sarkar, Naba Kumar Acharjya, Karmveer Singh and Manoj Kumar Pati	Oral

TS-13-011	Cointegration Analysis and Price Transmission in Fish Markets of Maharashtra, India	Talib Mohammad, Neha W. Qureshi, Saba N. Reshi and Naila Majid Bhatt	Oral
TS-13-012	Drivers Affecting Fish Consumption in Mumbai	Benu Kumari and Swadesh Prakash	Oral
TS-13-013	Exploring the Possibility of Shared Electronic Ledger Systems in Fish Watch: Enhancing Price Transparency and Understanding Market Dynamics	R. Manjeesh, Somy Kuriakose, K.G. Mini, A.R. Anuja, Sindhu K. Augustine and J. Jayasankar	Poster
TS-13-014	Live Oyster Trade in India – Perspectives and Challenges	B. Jenni, V. Kripa, V.P. Vipin Kumar and K.S. Mohamed	Poster
TS-13-015	Seafood Value Augmentation by Live Transportation and Marketing	U. Parvathy, R. Vishnu Nair, T.J. Jithin, P.K. Binsi, K. Sathish Kumar and S. Murali	Poster
TS-13-016	Fish for Food and Nutrition Security in India: A Comprehensive Framework Analysis	V. Vijaykiran, A. Suresh, Sachu Sara Sabu and P.P. Haritha	Poster

### TS-14: Fisheries Policy, Law, and Governance

Abstract No.	Title	Authors	Mode
	Beacons for the Governing of Fisheries: A Reflection	<b>Maarten Bavinck</b> Centre for Maritime Research, University of Amsterdam, Netherlands	Lead Speaker
TS-14-001	From Policy to Practice: Analyzing the Legal Instruments of South Asian Countries in Alignment with Flag State Duties Under the UN Fish Stocks Agreement	Sri Hari Murugesan	Oral
TS-14-002	Future-Proofing Sustainability in Indian Fisheries: Assessing National Legal Frameworks for Ecosystem Approach to Fisheries	Pandian Krishnan, Rajdeep Mukherjee, Elayaperumal Vivekanandan, Sakshi Venkateswaran, Kavyayani Narayan Singh, Anisha Safni John and Murugesan Sri Hari	Oral
TS-14-003	Impact of development schemes of the Government of India in enhancing the fish production and productivity of the reservoirs in India: A case study of Telangana	Kanchi Bhargavi, Pandian Krishnan, P.S. Ananthan, Arur Anand, T. Velumani, Ganesan Kantharajan, Asha T. Landge, Binaya Bhusan Nayak, L. Narasimha Murthy and Bijay Kumar Behera	Oral
TS-14-004	Assessment of Subsidies in Marine Fisheries: Comprehensive Overview of Gujarat, India	Saba N. Reshi, Neha W. Qureshi and P.S. Ananthan	Oral
TS-14-005	Importance of Marine Spatial Planning (MSP) for Marine Fisheries Management, Conservation and Mariculture Development: Initiatives in India	A.P. Dineshbabu	Oral
TS-14-006	Policy Issues in Ornamental Fish Farming and Aquarium Keeping Sector: Insight from India	Archana Sinha, Suman Kumari, Niti Sharma and B.K. Das	Oral
TS-14-007	Allowing Commercial Vessels to Fish in Waters Designated for Exclusive Use of Municipal Fishers: Are the Arguments Valid?	L. Wilfredo Campos, Alexanra Bagarinao-Regalado, B. Ephrime Metillo and Ma. Rio Adon-Naguit	Oral
TS-14-008	Access, Institution and Governance in Indian Reservoirs: Implication for Sustainable Fisheries Management	Ganesh Chandra, Anjana Ekka and B.K. Das	Oral
TS-14-009	Meta Governance for Sustainability: A Probative Study on Marine Fisheries Governance in Andhra Pradesh	J. Charles Jeeva, C. Ramachandran, R. Narayanakumar, S.S. Raju, P. Shinoj, V.P. Vipinkumar and J. Jayasankar	Oral
TS-14-010	Blue Justice in the Face of Blue Economy Challenges for Small-Scale Fishers: Insights from Scientometrics	D.C. Yateesh, Basanta Kumar Das, Aparna Roy, Liton Paul, Anurag Singh, Gitashree	Oral



		Thengal, Shreya Bhattacharya and Arun Pandit	
TS-14-011	Preserving Lives at Sea: An Assessment of Occupational Hazards and the Role of Life-Saving Devices for Small-Scale Motorised Fishers of Southern-most Coasts of India	M. Sabu, V.P. Preethi and Shinoj Parappurathu	Oral
TS-14-012	Harnessing the Humongous: Reservoir Fisheries Governance for Sustainable Fisheries in Telangana, India	Kanchi Bhargavi, Pandian Krishnan, P.S. Ananthan, Arur Anand, T. Velumani, Ganesan Kantharajan, T. Asha Landge, Binaya Bhusan Nayak, L. Narasimha Murthy and Bijay Kumar Behera	Oral
TS-14-013	Global Review of Research on Fisheries Cooperatives	Beemalla Samatha and Shivaji Argade	Oral
TS-14-014	Strengthening the Freshwater Fish Seed Supply Chain Through the 'Cluster Seed Villages' Approach in Odisha: A Strategic Initiative by ICAR-CIFA Under PMMSY	P.C. Das, H.S. Swain, S.K. Sahoo and H.K. De	Oral
TS-14-015	Recreational Fisheries as Community-Based Aqua-Tourism Option for Enhancement of the Social-Ecological and Financial Resilience of Wetland Fishers of Lower Gangetic Plains of Asia	P.R. Swain, P.K. Parida, K. Mondal, S. Chakraborty, B.K. Behera and B.K. Das	Oral
TS-14-016	Planning for Fisheries Future in Haryana and Punjab: Estimating Production Potential in Data-limited Scenarios	M. Naila Bhat and P.S. Ananthan	Oral
TS-14-017	Development of Spatial Atlas for Strategic Implementation of Seaweed Mission along Gujarat Coast: Towards Data to Decision Approach	D. Divu, Suresh Kumar Mojjada, P.S. Swathi Lekshmi, Aarsha Subramanian, Mayur S. Tade, J. Dhanush, T.S. Ramshad, Prachi Bagde, Bobby Ignatius, V.V.R. Suresh and Grinson George	Oral
TS-14-018	<i>Sardinella</i> Signatures-Tropical Reflections over Co-Governance Initiatives in Kerala	C. Ramachandran and Reshma Gills	Oral
TS-14-019	Comparative Analysis of Penalty Provisions in Marine Fishing Regulation Acts across India: Enforcing Responsible Fishing Practices	Pandian Krishnan, Rajdeep Mukherjee, Kavyayani Narayan Singh, Anisha Safni John and Murugesan Sri Hari	Poster
TS-14-020	Exploring Lakshadweep's Pristine Environment for Resilient Fisheries and Coastal Aquaculture Technologies	Sagar Vitthal Shinde, P. Abdul Azees and P.N. Ananth	Poster

### TS-15: Aquaculture in China

Abstract No.	Title	Authors	Mode
TS-15-001	Effects of Exopolysaccharides from <i>Paecilomyces hepiali</i> on Growth Performance, Digestive Enzyme Activity, Antioxidant Capacity and Intestinal Villus Length of <i>Micropterus salmoides</i>	Bin Chen, An-Li Hu, Yuan Wang, Rui Ding, Zai-Xiang He, Yong-Yi Wang, Zeng-FU Song	Oral
TS-15-002	Effects of Abscisic Acid on the Physiological and Biochemical Responses of <i>Saccharina japonica</i> under High Temperature Stress	Tao Liu, Jiexin Cui and Yinru Dai	Oral
TS-15-003	Rapid, Sensitive and Visual Detection of Mandarin Fish Ranavirus and Infectious Spleen and Kidney Necrosis Virus using an RPA–CRISPR/Cas12a System	Zhoutao Lu, Mincong Liang, Chuanrui Li, Yichun Xu, Shaoping Weng, Jianguo He and Changjun Guo	Oral
TS-15-004	Transcriptomic Reveal the Effect of Off Flavor Compound 2-Methylisoborneol (2-MIB) on Grass carp ( <i>Ctenopharyngodon idella</i> )	Huan Han, Jun-ming Zhang, Shuang Ji, Xiang-biao Zeng, Xi-chen Jin, Zi-qian Shen, Bin Xie, Xue-neng Luo, Kang Li and Li-ping Liu	Oral
TS-15-005	Development and Technology of Prawn Culture in China	He Jian Guo	Oral
TS-15-006	<i>Vibrio parahaemolyticus</i> Infection Mediates the Decline in the Abundance of Dominant Symbiotic Bacteria to Regulate the Diversity of Intestinal Bacterial Community in Shrimp	Hou Dongwei, Zhou Renjun, Weng Shaoping and He Jianguo	Oral
TS-15-007	Aquatic Animal Microbiome and Host Ecological Health Based on Microecological Koch's Postulates	Zhijian Huang, Shenzheng Zeng, Dongwei Hou, Lingyu Zhang, Shicheng Bao, Wenjun Wang, Zhixuan Deng, Renjun Zhou and Jianguo He	Oral
TS-15-008	The Molecular Mechanism of Infectious Spleen and Kidney Necrosis Virus Manipulates the Hypoxia-Inducible Factor Pathway to Facilitate Virus Replication	Jian He, Yang Yu, Wenhui Liu, Zhimin Li, Zhang Qi, Shaoping Weng, Jianguo He and Changjun Guo	Oral
TS-15-009	<i>Litopenaeus vannamei</i> “Zhongxing No. 2”: Innovative Molecular Breeding Practice based on IRF-SSR Markers	Bin Yin, Jianguo He and Chaozheng Li	Oral
TS-15-010	Nucleic Acid Sensing by STING Induces an IFN-like Antiviral Response in a Marine Invertebrate	Haoyang Li, Xuanzheng Di, Sheng Wang, Qinyao Li, Shaoping Weng, Jianguo He and Chaozheng Li	Oral
TS-15-011	Strategies for Mitigating Off-Flavors and Enhancing the Quality and Value-Addition of Pond-Cultured Fish	Li Kang, Yan Li, Luo Xueneng, Zhang Junming, Han Huan, Shen Ziqian, Jin Xichen, Li Jiawei, Huang Hongmin, Wu Zhenghai, Kamala Gharti and Liu Liping	Oral

TS-15-012	Transcriptomic Analysis Reveals the Role of Glycolysis Pathway in <i>Litopenaeus vannamei</i> during DIV1 Infection	Xuzheng Liao, Sihong Liu, Shihan Chen, Xinxin Shan, Jianguo He and Chaozheng Li	Oral
TS-15-013	Multi-omics Insights into Lipid and Fatty Acid Profiles in <i>Chlorella pyrenoidosa</i> Under Antibiotic (Streptomycin Sulfate) Stress	Linyinxue Dong, Liangliang Mu and Xuxiong Huang	Oral
TS-15-014	Characterizing Growth-Retarded Japanese Eels ( <i>Anguilla japonica</i> ): Insights into Metabolic and Appetite Regulation	Jingwei Liu, Xiang Biao Zeng, Yiwen Chen, Huan Han, Yanhe Liu, Bin Xie, Tianwei Jiang, Chris Kong-Chu Wong, Kang Li and Liping Liu	Oral
TS-15-015	ROS and Ca <sup>2+</sup> Signaling Involved in Important Lipid Changes of <i>Chlorella pyrenoidosa</i> under Nitrogen Stress Conditions	Liufu Wang, Qiang Shi, Yingying Pan, Liqiu Shi and Xuxiong Huang	Oral
TS-15-016	Selective Breeding of Growth and Stress Resistance Traits for Turbot ( <i>Scophthalmus maximus</i> )	Aijun Ma, Xinan Wang, Zhi Hui Huang, Zhi Feng Liu and Zhi Bin Sun	Oral
TS-15-017	The Research of Nicotinamide and B-Arbutin on Reducing Melanin Content in the Skin of Leopard Coral Grouper ( <i>Plectropomus leopardus</i> )	Zhi Bin Sun, Shi Ying Liu, Xin An Wang, Ai Jun Ma, Zhi Hui Huang, Zhi Feng Liu, Wei Heng Sun, Peng Fei Yan, Dong Hui Gou, Hui Yu Xiao, Hao Zhe Li, Vorathep Muthuwan, Zheng Xi Li and Yi Zhan Hong	Oral
TS-15-018	LRP6 Regulates Growth in <i>Litopenaeus vannamei</i> via the Wnt/ $\beta$ -Catenin Signaling Pathway	Sheng Wang, Xiaodi Wang, Haoyang Li, Bin Yin, Chaozheng Li and Jianguo He	Oral
TS-15-019	The Significance of Research on Carotenoid Nutritional Requirements for Crustacean Aquaculture	Wang Weilong, M.A. Zhuojun and Huang Xuxiong	Oral
TS-15-020	Genotype by Temperature Interaction for Plasma Physiological Indexes in Turbot ( <i>Scophthalmus maximus</i> ) under Acute Heat Stress - Exploring a Method for Screening Physiological Biomarkers of Non-Toxic Stress in Aquatic Environments	Xinan Wang, Zhen Meng and Aijun Ma	Oral
TS-15-021	Nervous Necrosis Virus Capsid Protein and Protein a Dynamically Modulate the Fish cGAS-Mediated IFN Signal Pathway to Facilitate Viral Evasion	Siyu Huang, Linwei Yang, Rui Zheng, Shaoping Weng, Jianguo He and Junfeng Xie	Oral
TS-15-022	Effects of Temperature and Salinity on the Growth, Reproduction and Carotenoid Accumulation in <i>Artemia sinica</i> and Transcriptome Analysis	Yucui Xue, Gang Jiang, Huang Shu, Weilong Wang and Xuxiong Huang	Oral
TS-15-023	Warming-Driven Migration of Enterotypes Mediates Host Health and Disease Status in Ectotherm <i>Litopenaeus vannamei</i>	Shenzheng Zeng, Zhijian Huang, Satapornvanit Kriengkrai, Renjun Zhou, Derun Yuan, Nguyễn Văn Tuấn, Zhiming Zhu, Luwei Zheng, Qilu Hou, Xuating Li,	Oral

		Qi Chen, Lingyu Zhang, Dongwei Hou, Zhixuan Deng, Shicheng Bao, Wenjun Wang, Sukontorn Khoruamkid, Goh Soo Loon, Shaoping Weng and Jianguo He	
TS-15-024	Identification of the Leptocephalus Larvae in the Western Central Pacific Ocean and Their Intestinal Microbiome Structure Analysis	Zeng Xiangbiao, Jiang Zhixin, Liu Jingwei, Jiang Tianwei, Li Kang and Liu Liping	Oral
TS-15-025	Comprehensive mRNA and microRNA Analysis Revealed the Effect and Response Strategy of Freshwater Fish, Grass Carp ( <i>Ctenopharyngodon idella</i> ) Under Geosmin Exposure	Jun-ming Zhang, Huan Han, Yi-chao Li, Bing Fu, Gen Kaneko, Kang Li, Xi-chen Jin, Shuang Ji, Er-meng Yu and Liping Liu	Oral
TS-15-026	Aquatic Food Supply and Consumption in China	Hao Xu, Mausam Budhathoki, Michael Fabinyi, J.G. Patrik Henriksson, Max Troell, Safari Fang, Tianqi Wu, Xin Wang and Wenbo Zhang	Oral
TS-15-027	Biofloc Technology Enhances Growth Performance, Antioxidative Activity and Intestinal Health of Immature Metamorphic Froglet ( <i>Hoplobatrachus Rugulosus</i> )	Xiaoting Zheng, Xueying Liang, Qiuyu Cheng and Jiasong Zhang	Oral
TS-15-028	OGDA 2.0: A Comprehensive Organelle Genome Database for Algae	Tao Liu, Xumin Wang, Jinli Zhu, Xuli Jia, Xiaofan He and Yenzhen Tan	Oral
TS-15-029	The Function and Application of Interferons in Controlling Viral Diseases in Aquaculture	Jun Zou and Junya Wang	Oral

## TS-16: Vulnerability to Viability (V2V) Transitions in the Small-Scale Fisheries of Asia

<b>Abstract No.</b>	<b>Title</b>	<b>Authors</b>	<b>Mode</b>
TS-16-01	Vulnerability to Viability (V2V) Transitions in the Small-Scale Fisheries of Asia	Prateep Kumar Nayak	Oral
TS-16-02	Reimagining “value” as social-ecological wellbeing in dried fish value chain	Sisir Kanta Pradhan and Prateep Kumar Nayak	Oral
TS-16-03	Justice and Equity for Small-scale Fisheries in the Post-Governance Transformation in Transboundary Sundarbans	Md Ruyel Miah and Prateep Kumar Nayak	Oral
TS-16-04	Strengthening Social-Ecological Resilience in Chilika Lagoon: From Vulnerability to Viability in Small-Scale Fisheries	Navya Vikraman Nair and Prateep Kumar Nayak	Oral
TS-16-05	Determining Adaptive Co-Management Applicability Within Small-Scale Fisheries in Indonesia: Transitioning Fisheries from Vulnerability to Viability	Murray Lister, Prateep Kumar Nayak and Indah Susilowati	Oral
TS-16-06	Recognition Survey for Carbon Footprint Emission Estimation to Support Sustainable Aquaculture Tourism: A Case Study on Karimunjawa Island, Central Java, Indonesia	Mentari Anggun Djatayu and Indah Susilowati	Oral
TS-16-07	Strengthening marine and coastal tenure: a pathway for integration of rights, governance and responsibility for coastal communities	Phillipa J. Cohen	Oral
TS-16-08	Models of Governance: Inland Fisheries in Controlled Waters	Vipul Singh	Oral
TS-16-09	Green Energy and Technology: A Framework of Intervention through Resilience for Vulnerability to Viability	Priyadarshi Patnaik	Oral
TS-16-10	Emerging leaders, evolving entrepreneurs: Activating SDG 13 through inland fishing in the Indian Sundarbans	Jenia Mukherjee	Oral
TS-16-11	Addressing resource use, governance and equity for small scale fisheries in blue growth - case study of Moheshkhali, Bangladesh	Samiya Ahmed Selim	Oral
TS-16-12	Participatory Approach for managing Vulnerability and risks in Sustainable Inland Small Scales Fisheries of West Bengal	Shreya Bhattacharya, Basanta Kumar Das, Aparna Roy and Lianthuamluaia	Oral
TS-16-13	Social Ecological Vulnerability in Marine Protected Areas: Does Tourism Diversify Livelihoods of Local Fishers in Malaysia?	Gazi Md Nurul Islam	Oral

TS-16-14	Governance mismatch: Lessons from anchovy fisheries management in Thailand	Suvaluck Satumanatpan, Kungwan Juntarashote and Ratana Chuenpagdee	Oral
TS-16-15	Dried small fish as a window into vulnerability-viability transitions in small-scale fisheries	Derek Johnson	Oral
TS-16-16	Coproduced Climate Resilient Futures: Insights from Small Scale Fisheries of Coastal Andhra Pradesh, India	Bala Raju Nikku, Srinivasu Kodi and Siva Sankara Rao Mallavarapu	Oral

**Symposium on  
'Aquatic Animal Diseases: Emerging Challenges and Preparedness'**

<b>Sl. No.</b>	<b>Title</b>	<b>Authors</b>	<b>Mode</b>
1	Regional Response to Emerging Aquatic Animal Diseases	<b>Eduardo M. Leño</b> Network of Aquaculture Centres in Asia-Pacific, Bangkok, Thailand	Keynote Speaker
2	Biosecurity and Quarantine for Disease Prevention in Aquaculture	<b>Iddya Karunasagar</b> FAO Reference Center for Antimicrobial Resistance and Aquaculture Biosecurity, Nitte University, Mangalore, Karnataka, India	Lead Speaker
3	Diagnostics and Vaccines for Aquaculture in India	<b>P.K. Sahoo,</b> P.K. Pradhan, Neeraj Sood and Megha K. Bedekar ICAR-Central Institute of Freshwater Aquaculture, Kausalyaganga, Bhubaneswar, India	Invited Speaker
4	Aquatic Animal Disease Surveillance in India	<b>Neeraj Sood,</b> Pravata Kumar Pradhan, Anutosh Paria, Chandra Bhushan Kumar, Uttam Kumar Sarkar and J.K. Jena ICAR-National Bureau of Fish Genetic Resources, Lucknow, India	Invited Speaker
5	Surveillance of Antimicrobial Resistance in Indian Aquaculture: Recent updates	<b>Gaurav Rathore,</b> U.K. Sarkar and J.K. Jena ICAR-National Bureau of Fish Genetic Resources, Lucknow, India	Invited Speaker
6	Therapeutic Intervention in Indian Aquaculture for Improved Aquatic Animal Health Management	<b>Prasanna Kumar Patil</b> ICAR-Central Institute of Brackishwater Aquaculture, Chennai, India	Invited Speaker