

**UNIVERSITY**

# NEWSLETTER

**TNJFU**

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## *From the Desk of Vice-Chancellor.....*



Dear Readers,

If we can teach our students to learn by creating curiosity, they will continue to become learners for life. In today's dynamic world, teaching methods have changed a lot and technology plays a crucial role in imparting the curricula in an experiential learning model. In my opinion, this makes the role of teachers more relevant and needed than ever before. Teachers who regularly update their domain knowledge and technical skills will alone be preferred by the students and the complacent group may become redundant. The ICAR has made new digital initiatives through its Education Division and NAHEP which include Student READY Portal and Agricultural Expert Systems to work seamlessly up to the college level in all Universities.

In the Agricultural University Vice-Chancellors conference in New Delhi in mid-April, the DDG (Education) summarized the role played by the ICAR towards the implementation of National Education Policy 2020 in agricultural education. The 6th Deans Committee (with 12 sub-committees) constituted by the ICAR is all set to incorporate necessary restructuring in the UG curricula realistically. One of the key recommendations is the generation of internal financial resources at all Agricultural Universities and the appointment of dedicated Resource Managers. ICAR also emphasized mainstreaming agricultural and allied curricula in schools to create better awareness. I share all these with my colleagues at our University to be better prepared for the changing needs and expectations. As Abraham Lincoln quoted, "the best way to predict your future is to create it". We also need to take measures for early implementation of the BSMA recommendations in our PG programmes.

The Hon'ble Governor during the recently held Tamil Nadu University Vice-Chancellors' conference provided a platform to discuss ways and means to "Make India the World Leader in 2047" and "India's role in the emerging new world order" and how Universities could redefine themselves towards achieving them. The Hon'ble Governor reiterated that education is the key to bringing in the required changes in the country and urged all Universities to adapt to more competency-based education to improve the entrepreneurial skills and employability of our graduates. You will all agree that we are on the right path at our University to accomplish this with the committed band of teachers to our profession.

The month of April witnessed a variety of NFDB-sponsored training programmes at our campuses to benefit the community. The students of FCRI, Ponneri deserve appreciation for their initiative in forming a Kitchen garden, a move to creating a healthy green campus, which could be replicated wherever possible. ICAR has also introduced the Clean and Green Awards for University campuses. The Ponneri campus has also added the much-needed fish-farm complex. The Thalainayeru campus is now enabled with a computer laboratory to enhance students' learning. I congratulate our staff, Deans, Directors and Programme Co-ordinator of the KVK for the apposite programmes organised and for bringing out a few publications in high-impact journals as these are the means to bring in greater institutional visibility and reputation.

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## VC EVENTS

### Annual Vice-Chancellors Conference at Raj Bhavan, Ooty:

The Hon'ble Vice-Chancellor participated in the two-day Conference of Vice-Chancellors of Universities in Tamil Nadu on 25.04.2022 and 26.04.2022 at Raj Bhavan, Ooty. Prof.M.Jagdeesh Kumar, the chairman of UGC was the Chief Guest.



### Visit to Trichy CeSA:

The Hon'ble Vice-Chancellor visited the Trichy Centre for Sustainable Aquaculture (TCeSA) on 27.04.2022. During the visit, the Hon'ble Vice-Chancellor met with staff and discussed the activities of the centre, and inspected the facilities and resources at the premises.

### Inaugurated an International Conference:

The Hon'ble Vice-Chancellor inaugurated the International Conference on "Emerging Trends, Growth, Opportunities and Future in Food Processing Sectors" at Bishop Heber College, Tiruchirappalli on 28.04.2022 and delivered the Inaugural Address.



### 12<sup>th</sup> IFAF - Review Meeting:

The Hon'ble Vice-Chancellor, TNJFU conducted an online meeting on 01.04.2022 with all the Chairmen of the Committees of 12<sup>th</sup> IFAF.

### Visit to State Fisheries Department:

The Vice-Chancellor visited the Fisheries and Fishermen Welfare Department at Chennai on 05.04.2022 and met with the Commissioner of Fisheries to discuss the hosting of 12<sup>th</sup> IFAF.

### Visit to SEAI:

The Vice-Chancellor visited the Seafood Exporters Association of India in Chennai on the afternoon of 05.04.2022 and met with the President and General Secretary of Tamil Nadu Seafood Exporters Association of India.

### Inauguration of Fish Farm Complex at Dr.MGR FCRI, Ponneri:

The Hon'ble Vice-Chancellor inaugurated the Fish Farm Complex, Approach Road and Kitchen Garden at Dr. M.G.R. Fisheries College and Research Institute, Ponneri on the forenoon of 06.04.2022.



### Visit to Raj Bhavan, Chennai:

The Vice-Chancellor visited the Raj Bhavan, Chennai on 06.04.2022 for inviting the Hon'ble Governor to inaugurate the 12<sup>th</sup> Indian Fisheries and Aquaculture Forum.

### Conference and AI Awards 2022:

The Hon'ble Vice-Chancellor participated as Guest of Honour in the Conference – "Update Knowledge on Aquaculture" and presented the AI Awards 2022 at Trade Centre, Nandambakkam, Chennai on the afternoon of 06.04.2022.

### Met with the Hon'ble Minister for Fisheries:

The Vice-Chancellor met with the Hon'ble Minister for Fisheries & Fishermen Welfare and Animal Husbandry Thiru. Anitha R. Radhakrishnan on 07.04.2022 in Chennai, for finalizing the announcements for the year 2022-23.

### University Officers Meeting:

The Hon'ble Vice-Chancellor, TNJFU conducted the 52<sup>nd</sup> University Officers meeting through virtual mode on 08.04.2022.





### Video Conference organised by Raj Bhavan:

The Vice-Chancellor participated in the Video Conference conducted by the Hon'ble Governor-Chancellor with all the Vice-Chancellors of State Universities of Tamil Nadu on 08.04.2022.

### Met with the Hon'ble Union Minister for Fisheries & Hon'ble Union Minister of State for Fisheries:

The Vice-Chancellor met with the Hon'ble Union Minister for Fisheries Shri Parshottam Rupala and Hon'ble Minister of State for Fisheries Dr. L. Murugan in New Delhi on 11.04.2022 and invited them to the 12<sup>th</sup> Indian Fisheries and Aquaculture Forum.

### Annual Vice-Chancellors Conference at ICAR:

The Vice-Chancellor Participated in the Annual Conference of Vice-Chancellors of State Agricultural Universities, held at ICAR, NASC Complex, New Delhi on 12.04.2022.

### Visit to Legislative Assembly:

On behalf of the University, the Hon'ble Vice-Chancellor attended the Tamil Nadu Legislative Assembly session during the fisheries demand on 13.04.2022.

### Visit to Raj Bhavan, Chennai:

The Vice-Chancellor Participated in the unveiling ceremony of Bharathiyar's statue and a Tea party at Raj Bhavan, Chennai on 14.04.2022.

### Attended an online Meeting:

The Vice-Chancellor participated in the 24<sup>th</sup> meeting of the Scientific Panel on Fish and Fishery Products organised by the FSSAI through virtual mode on 20.04.2022.

### Visit to Dr.MGR FCRI, Thalainayeru:

The Hon'ble Vice-Chancellor visited the Dr. M.G.R. Fisheries College and Research Institute, Thalainayeru on 21.04.2022 and declared open the Computer Lab at Dr.MGR FCRI, Thalainayeru. The Vice-Chancellor also participated in the "Boomi Pooja" for the construction of the Freshwater Instructional Farm for Dr.M.G.R. FCRI, at Korkai.



### Met with the Hon'ble Minister for Fisheries:

The Vice-Chancellor met with the Hon'ble Minister for Fisheries & Fishermen Welfare and Animal Husbandry Thiru. Anitha R. Radhakrishnan on 22.04.2022 in Chennai, inviting him to participate in the 12<sup>th</sup> Indian Fisheries and Aquaculture Forum.

### Attended a Meeting at Secretariat:

The Hon'ble Vice-Chancellor participated in the Budget Announcement (2022-23) Review meeting at the Secretariat, Chennai on 22.04.2022.

## COLLEGE NEWS

### Fisheries College & Research Institute, Thoothukudi Training Programmes:

M a r i c u l t u r e Research Farm Facility, Department of Aquaculture, organized a two-day training programme under NADP funded Scheme on "Integrated Multi-Trophic Aquaculture (IMTA) based culture technology to augment fish production as an alternative livelihood for the fisherfolk of Tharuvaikulam, Tamil Nadu" on 21.04.2022 & 22.04.2022 for Technology dissemination. A total of 40 participants from Tharuvaikulam fishing village participated in the training and benefited. In this Valedictory function held on 22.04.2022, Mr.K.S.VijayAmirtharaj, Assistant Professor and Head i/c, welcomed the gathering. Dr.R.Santhakumar, Dean i/c, FC&RI, Tuticorin delivered the presidential address. The Dean i/c has also released the training pamphlet on IMTA and distributed certificates to the participants.



Department of Fishing Technology and Fisheries Engineering, and the Centre for Incubation and Vocational Training in Fisheries (CIVF), jointly organized the training programme on "Maintenance of fishing boat engine and safety of fishermen at sea" from 18<sup>th</sup> - 25<sup>th</sup> April 2022. A total of 20 fishermen from the Thoothukudi district participated in the programme. Mr.



R. Amal Xavier, Joint Director of Fisheries and Fishermen Welfare, Thoothukudi, participated as Chief Guest in the inaugural session. The valedictory function of the training programme was held on 25.04.2022 at the District Collector Office, Thoothukudi. Dr.K. Senthil Raj, I.A.S., Thoothukudi District Collector participated as the chief guest and distributed the certificates to the trainees. Dr. R.Santhakumar, Dean i/c, Capt.S.Viswanathan, Dean, College of Nautical Science, Thoothukudi, Dr.N.Neethiselvan, Professor and Head, Department of Fishing Technology and Fisheries Engineering, Mrs. J. Angel Vijaya Nirmala, Assistant Director, District Skill Development Training Office, Thoothukudi, Mrs. Anto Princy Viyola, Assistant Director of Fisheries and Fishermen Welfare, Thoothukudi, Th. T. Ravikumar and Th. S. Mariappan, Assistant Professors, Department of Fishing Technology and Fisheries Engineering, participated in the valedictory function.

### **Dr. M.G.R Fisheries College and Research Institute, Ponneri**

#### **NFDB training programmes:**

Department of Fisheries Resource Management (DFRM) organised one day (05.04.22) awareness programme on “conservation and management of endangered fishes to the Tamil Nadu scheduled caste fisherfolks”. Hundred Scheduled Caste participants from the coastal region of Tiruvallur District attended the programme. Mr. K. Karuppasamy, Asst. Prof, DFRM coordinated.



Department of Fisheries Resource Management (DFRM) organized three day (07.04.22 to 09.04.22) training programme on “Identification and Management of Important Fishery Resources in Tamil Nadu”. Dr. B. Ahilan, Dean i/c inaugurated the training programme in the presence of Mr. K. Velan, Assistant Director of Fisheries, Tiruvallur (Ponneri). Fifty Scheduled Caste participants from Ponneri and Pazhavaerkadu regions attended the programme and benefitted. Mr. P. Pavin Kumar, AP & Head, DFRM organized the programme.

A one-day training programme was conducted on 11.04.2022 by the Department of Aquaculture. The training

was inaugurated by Dr. B. Ahilan, Dean i/c. A total of 100 persons participated in the training programme. Dr. S. Selvaraj, Assistant Professor coordinated.



Organized NFDB funded three days (11.04.2022 to 13.04.2022) training programme on “Sea safety and marine communications” for scheduled caste fishermen of Pulicat coast. The programme was inaugurated by Dr.B.Ahilan, Dean i/c, on 11.04.2022 in the presence of the Assistant Director of Fisheries, Thiruvallur District at Pulicat Research Farm Facility. First day had three technical lectures by Mr. K. Velan Assistant Director of Fisheries, Ponneri, Mr.R.Velmurugan, Assistant Professor, DFT&FE and Mr.M.Kalaiarasan, Assistant Professor, DIVE, Ramanathapuram respectively. The trainees were taken to CIFNET, Chennai and FSI Vessel ‘Samudhrika’ for practical knowledge gain. Mr.Dikson (deep-sea fishermen) from Kanyakumari District shared his experience on sea safety and marine communication procedure. A total of 50 (Fishermen from Pulicat Coast) participated in the event. Mr.R.Velmurugan, Assistant Professor & Head, DFT&FE was the Coordinator.



Department of Fish Processing Technology, organised three days (20.04.22 to 22.04.22) training programme on “Socio-economic Upliftment

of marginalized schedule caste folks of inner regions of Tamil Nadu through Skill up-gradation of fish products”. Dr. B. Ahilan, Dean i/c inaugurated the training programme and insisted on the importance of training on the production of value-added fish products. Mrs. Nimish Mol Stephen, Head of the Department, and the Assistant Professors Dr. N. Muralidharn, Dr. K. Masilan have organized the programme.

### **Dr. M.G.R Fisheries College & Research Institute, Thalainayeru**

#### **Hostel Day, 2022:**

The hostel day “Kanso Festo – 22” was celebrated on 04.04.2022. Several onstage events, fun games and off-stage events were conducted. The Red house team bagged the winner prize and the Greenhouse team won the runner



prize. Dr. G. Ramesh, Deputy Director of Animal Husbandry, Thiruvavur was the chief guest who distributed the prizes to the winners.



Th. S. Santhoshkumar, Assistant Professor and Head and Warden presented the hostel annual report for the year 2021 to the gatherings.

### Awareness Rally on Education:

Under Unnat Bharat Abhiyan (UBA) scheme "Awareness Rally on Education" was organised on 23.04.2022 at Bharathi Nagar, Kadanthethi village and celebrated the International Book Day, 2022. A total of 50 students and staff have participated and explained the importance of education among the villagers.



### College of Fisheries Engineering

#### 'Pariksha Pe Charcha:

'Pariksha Pe Charcha' is part of the larger movement - 'Exam Warriors' - led by Prime Minister Narendra Modi, to create a stress-free atmosphere for youngsters. This year, Pariksha Pe Charcha 2022 and the interaction of the Hon'ble Prime Minister with students was held at Talkatora Stadium, New Delhi on 1st April. The students of this institute have attended the session in a virtual mode and got inspired by the Prime Minister's lightening speech and also saw different projects showcased by students virtually. The event was coordinated by Dr. Mohammad Tanveer, Associate Professor and Head of the Department of Aquacultural Engineering.



### Celebration of Freshers' Day 2022:



Freshers' Day was celebrated on 05.04.2022. The II B.Tech.(Fisheries Engineering) students of the 2020-21 batch have welcomed the I B.Tech.(Fisheries Engineering) students of batch 2022-

23. Dr.N.Manimehalai, Dean i/c has presided over the function. The event included cultural programmes and fun events. The event was coordinated by Dr.M.Ramar, Assistant Professor.

### Students visited Renewable Energy Expo:



The Renewable Energy Expo team, Chennai organised three days Renewable Energy Expo programme from 28.04.2022 to 30.04.2022 at Chennai Trade Centre, Nandambakkam, Chennai. Totally 19 B. Tech (EEE) students have visited the Expo. More than 50 industries across the country participated in the Expo.

### Institute of Fisheries Postgraduate Studies National Webinar:

One day national webinar on "Current Trends in Fish Genetics Research" was conducted on 13.04.2022. Genetics to genomics, molecular taxonomy, and molecular markers were the key topics delivered by three national-level experts viz., Dr. J.K. Sundaray, Principal Scientist, ICAR-CIFA, Dr. A. Kathirvelpandian, Senior Scientist, ICAR-NBFGR, and Dr. Annam Pavan Kumar, Senior Scientist, ICAR-CIFE. In total, 68 participants including students, research scholars, faculties and scientists attended the webinar.



### "Earth Day" celebration:



To create awareness of the importance of planting trees and countering global warming, "Earth Day" was celebrated on 22.04.2022. Indian Almonds, Ficus, and Hibiscus were planted in and around the hostel premises by Dr. S.A. Shanmugam, Dean (Basic Sciences), Dr. K. Kumanan, OIC-IFBT, and Dr. R. Jayaraman, Programme Director, in the presence of students, teaching,

and non-teaching staff. Mr. V. Jothiswaran, General Secretary-Students' Association, and Mr. M. Devarajan, Secretary-Green Club, organised. Dr. E. Suresh, Vice-President, coordinated.

#### **Awareness programme on IDY 2022 "Yoga and Health":**



An awareness programme on IDY 2022 "Yoga and Health" was organised 28.04.2022. The special invitee, Mr. B. Velmurugan, Heartfulness Institute,

Chennai, delivered a talk on "Health benefits of Yoga" and also demonstrated the practices of yoga. Dr. S. A. Shanmugam, Dean (Basic Sciences), urged the faculties and students to learn yoga and to get benefits out of it. All the faculties and students of IFPGS, IFBT, and Business School attended the programme.

#### **College of Fisheries Nautical Technology**

##### **National Maritime Day – 05.04.2022:**



The National Maritime Day was celebrated on 05.04.2022. The Special Guest was Th. Amal Xavier, M.F.Sc., Joint Director, Fisheries

and Fishermen Welfare Department, Thoothukudi and the chief Guest were MMD, Surveyor, Thoothukudi and Capt.V.Parthasarathi. The felicitation speech was given by the dean Capt.S.Viswanathan.

##### **Boating Trip to Tharuvaikulam:**



On 30.04.2022 all the 17 cadets with Bosun have been taken to Tharuvaikulam for practical class in the Glass Bottom Boat. This

sailing trip was for about 1 hr 30 mts. This practical class was a different experience with a new technology boat that facilitated viewing live corals and the fishes through a transparent glass boat.

#### **College of Fish Nutrition and Food Technology**

##### **Sports Day Meet 2022:**

The 1<sup>st</sup> Annual Sports Day Meet 2022 was conducted on 22<sup>nd</sup> April 2022 at Campus. Dr. R. Brimasureeswaran,

Vice President of the Students Association welcomed the gathering. This was followed by the presidential address by the Dean, Dr. Usha Antony, who addressed the students with a thought-provoking and inspiring speech on sports and its importance in our lifestyles.



Dr. D. Natarajan, Assistant Director of Physical Education, TNJFU assisted and guided the students to conduct several sports events such as volleyball, throwball, athletics (100m, 200m & 800m) shotput, discus throw, javelin throw and indoor games. Nearly 125 students participated in various events.

The chief guest of the day Mrs. Alamelu, Inspector of M2 Police Station, Madhavaram, Chennai addressed the gathering and expressed her views on athletics and the significance of sports in education. Prizes were distributed by the chief guest to the victorious students. Mr. D. Lakshmikanth, Sports Secretary, rendered the vote of thanks.

##### **Hostel Day Celebration 2022:**

Inauguration of Students Association and Hostel Day Carnival 2022 was organised on 23.04.2022. The B.Tech. (Food Technology) students, B. Voc. PPIFT students and AAHM students, Teaching and Non-Teaching staff took part in this event.



Ms. G.M. Cowsicaa, Hostel Secretary, delivered the Welcome address to the dignitaries, participants and the audience of the event. Mr. M. Jerish, General Secretary, conveyed the vote of thanks to all who were responsible for making this event a success. Dr.B.Ahilan, Dean i/c Dr.MGR. FCRI Ponneri & Dr.N.Felix, Director, DIVA Muttukadu were the Guests of Honour.

#### **DIRECTORATES**

##### **Directorate of Extension Education Skill Training:**

A three-day skill training programme for SPARKS of community farm schools, Nagapattinam on 'Blackgram



cultivation technologies' sponsored by Tamil Nadu Rural Transformation Project (TNRTP) was organized at ICAR-Krishi Vigyan Kendra, Nagapattinam from 05.04.2022 to 07.04.2022. A total of 37 farmers participated. The training programme was inaugurated by Mr. J. Akhanda Rao, Joint Director of Agriculture, Nagapattinam. Dr. P. Chidambaram, Programme Coordinator, KVK welcomed



the participants and gave a prelude about the importance of the programme and effective utilization of KVK facilities.

#### **Kisan Mela and Natural Farming Seminar under Azadi Ka Amrit Mahotsav:**

The "ICAR-KVK, Nagapattinam organized a mega level Kisan Mela at KVK campus jointly with Department of Agriculture and Farmers Welfare, Nagapattinam on 26.04.2022. A total of 221 farmers and farm women participated in the programme. The District Revenue Officer Mrs.V. Shakila, Nagapattinam District inaugurated the seminar and exhibition stalls and headed the Programme. Dr. M. Rajakumar, DEE, TNJFU, Nagapattinam gave a special address. Mr. E. Hino Fernando, SMS (Fisheries Extn.) welcomed the gathering. The JDA, Nagapattinam Mr.J.Akhanda Rao delivered a special address and mentioned the importance of natural farming. The Deputy Director of Horticulture Dr.R.Dhivya explained the schemes of the Horticulture department. Followed by the Hon'ble Agriculture Minister's speech was webcast and translated among the farmers. Technical sessions on new agricultural technologies and varieties, pest and disease management of crops were delivered by subject matter specialists of KVK. Mr. K. Ragu SMS Horticulture gave a vote of thanks.



#### **Capacity Building Training Programme :**

ICAR- Krishi Vigyan Kendra, TNJFU, Nagapattinam conducted three days of Capacity Building Training Programme on Disease Management in Goat on 25.04.2022, 27.04.2022 and 28.04.2022 sponsored by NABARD under Farm Sector Promotional Fund. Level three programme under Value chain Integration in goat farming through



migrant returnees of Nagapattinam District organized at Naluvethapathy. In this training programme, Bio-security measures to be followed in goat farm,

Kid care Management, Winter and summer Management, Seasonal diseases affecting goats and their control, Ethno Veterinary Medicine practices to manage common ailments of goats and Management of nutritional diseases, Prophylactic measures to contain and prevent the spread of diseases in goats were explained to the participants. Dr.S.Muthukumar, SMS (Animal Husbandry), KVK handled the technical session.

#### **Exposure Visit:**

ICAR-Krishi Vigyan Kendra, Nagapattinam conducted the seven days training programme on Scientific Beekeeping from 29.03.2022 to 04.04.2022 sponsored by National Bee Board, New Delhi. In this training programme, a Farmers' exposure visit has arranged on 02.04.2022 and the farmers were taken to Krishi Vigyan Kendra, Madurai. Dr.Usha Rani, SMS delivered the lectures on little bees and dammer bees. Also visited the VIBIS Natural Bee farm located in Madurai. Owner and entrepreneur of Natural bee farm Dr. Josephine Arokiya Mary delivered the lectures on how to handle the beehive, identifying the drone and queen and conducted a demonstration of honey extraction. 25 farmers participated.



#### **Directorate of Incubation And Vocational Training in Aquaculture**

##### **Internship – campus interview:**

B.Voc IA students (2019-20 batch) attended the interview for an internship programme conducted by Deva shrimp farm, Marakkanam, Chengalpattu district on

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To

20.04.2022. Two students were selected by the interviewer to pursue their internship at their shrimp farm.

#### Important visitors:



Dr. Martin Guerin, Regional Technical Manager Aquaculture, ADISSEO, Malaysia visited the campus on 28.04.2022. On this occasion, the activities

of DIVA about Aquafeed mill, Recirculating Aquaculture System (RAS), shrimp farming, Bio-floc and indoor aquaculture complex have been explained.

#### Directorate of Incubation And Vocational Training in Fisheries



The Institute of Industrial Fishing Technology, DIVE, Ramanathapuram have organized the "Distribution of

Nilavembu water and Tree plantation Programme" at Government Primary School, Sathakkonvalasai, Ramanathapuram District on 28.04.2022 by taking part of 75<sup>th</sup> Independence day of India under the guidance of Principal, Capt.S.Viswanathan. The Head Master, Government Primary School, Sathakkonvalasai distributed the Nilavembu drinks to Students, Teaching Staff, Non-

Teaching Staff and Contractual Staff of the School. Mr.M.Kalaiarasan, Assistant Professor inaugurated the programme by planting a tree sapling.

#### Research Publications:

1. Rakesh Nirmalkar, E. Suresh, N. Felix, A.Kathirvelpandian, Mir Ishfaq Nazir and Amit Ranjan (2022). Synthesis of Iron Nanoparticles Using *Sargassum wightii* Extract and Its Impact on Serum Biochemical Profile and Growth Response of *Etroplus suratensis* Juveniles. Biological Trace Element Research. (NAAS: 9.27; IF: 3.738)
2. N. Hemamalini, S.A. Shanmugam, A. Kathirvelpandian, Deepak Agarwal, V.Kaliyamurthi, E. Suresh and S. Ezhilmathi (2022). Prevalence, Antimicrobial Susceptibility and Resistance Gene Detection in Bacteria Isolated from Goldfish and Tiger Barb from Ornamental Fish Farms of Tamil Nadu. Indian Journal of Microbiology. (NAAS : 8.46; IF: 2.461)
3. Nagarajan Manimozhi, Rani V, Sudhan C, Manimekalai D, Shalini R. Krishna Moorthy Abarna: Spatiotemporal occurrence, distribution, and characterization of microplastics in salt pans of the coastal region of the Gulf of Mannar, southeast coast of India. Regional Studies in Marine Science, <https://doi.org/10.1016/j.rsma.2022.102350> 2022 Vol – 53 Page no. 102/350 (NAAS: 7.62 Scopus index: 0.46)

"சோதனை கடந்து சுதந்திரம் அடைந்தோம்  
சாதனை புரிந்து சரித்திரம் படைப்போம்."