

## ICAR short course on Advanced virological techniques in fish disease diagnosis

Fisheries and aquaculture is presently growing rapidly with production of 8.3 million tons/year and projected target of 16 million tons by 2025. Viral diseases are the major cause of economic loss in aquaculture with an estimated loss of up to 40 % of tropical shrimp production. Different DNA and RNA viral diseases are similarly causing large-scale economic losses in finfish aquaculture. Diagnosis of the aetiological agent is the foremost step in addressing the management of viral infection in fishes. Since fish viral disease research is developing in our country, it is our endeavour to impart the knowledge gathered in this line to the scientists and researchers working in the area of fish disease diagnosis and control

Fisheries College and Research Institute established in 1977 at Thoothukudi is currently functioning under the Tamil Nadu Fisheries University. Fish disease management section earlier working in the Department of Aquaculture has been elevated as an independent Department of Fish pathology and Health management since 01-10-2013. The department has well equipped laboratories for Virology, Fish Cell culture, Bacteriology and Histopathology. The Department handled several externally funded research projects investigating important fish and shrimp pathogens such as white spot syndrome virus, piscine neuropathy nodavirus, koi ranavirus, *Vibrio harveyi* and *Aeromonas hydrophila* for their virulence, strain variability and control measures. Currently the Department is a part of the National Surveillance Programme for Aquatic Animal Diseases.

**Duration: 10 days (10.09.2014 to 19.09.2014)**

### Course content

- Fish & shell fish viral diseases and emerging viral infections
- Sample processing for viral disease diagnosis
- Molecular techniques for viral disease diagnosis including PCR, RT PCR, qPCR
- Immunological methods for viral disease diagnosis
- Characterisation of fish and shrimp viral pathogens
- Development of fish cell lines
- Virus isolation and identification in cell culture systems
- Application of bioinformatics in viral pathogen characterisation
- Management strategies for viral infections in fish and shrimp aquaculture
- Visit to shrimp/ fish farms

### Eligibility

Asst. Professors/ Scientists/ Lecturers in aquaculture and related fields in Agricultural or Veterinary Universities/ Research Institutes/ Colleges working in similar areas affiliated to Universities can apply. The applicants should have a Master's degree in Fisheries Science/ Life Sciences or equivalent qualification and at least two years experience. The number of participants will be limited to **25**.

### Nominations

Directors of ICAR Institutes, Vice Chancellors of Agricultural / Veterinary Universities / Heads of University Depts. and Principals of affiliated colleges can nominate two participants for final

approval by the Dean, FCRI, Thoothukudi. The last date for receiving the nomination is **14<sup>th</sup> August 2014** and the selected candidates will be intimated on or before **18<sup>th</sup> August 2014**.

### Registration

A registration fee of Rs. 50/- (Rupees Fifty only) per participant is fixed as per ICAR guidelines. The registration fee in the form of DD/Indian postal order drawn in favour of **The Dean, FCRI, Thoothukudi** should be sent along with the filled in application form completed in all respects to the **Course Director, ICAR short course, Fisheries College and Research Institute, Thoothukudi – 628 008 Tamil Nadu**.

### TA & DA

The participants will be paid to and from travel fare by shortest route for journey by rail, bus or other means of transport as per their entitlement, restricting to 2 tier AC. Participants are requested to produce a copy of the ticket for reimbursing the travel expenditure. Travel DA will be disbursed as per ICAR rules *in lieu* of incidental charges.

### Boarding and lodging

Participants will be provided with boarding and lodging as per rules. Local participants will be provided with lunch & refreshments only

### Location

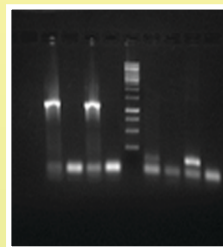
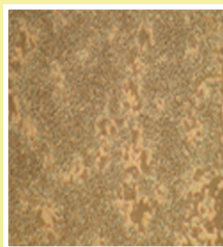
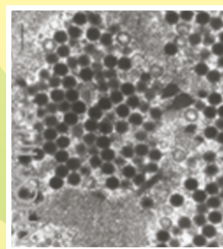
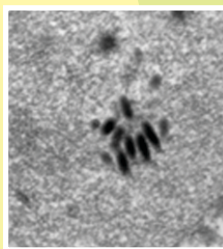
Thoothukudi is a coastal port town and district headquarters situated about 600 km south of Chennai with warm climate during September having temperature ranging between 34-36°C. The town is connected by air, rail and road.

Application form for participation in Short Course  
(Print and send to Director, ICAR Short Course)

1. Full Name (in block letters):
2. Designation:
3. Present Employer & Address:
4. Address for Correspondence:
  - a. Email:
  - b. Contact telephone no.
5. Permanent Address:
6. Date of Birth:
7. Sex:
8. Marital Status:
9. Teaching / Research / Professional Experience (Mention post held during last 5 years):
10. Mention if you have participated in Seminars/Winter or Summer schools/Short Courses, etc. during the previous years under ICAR/other organizations (last 3 years):
11. Postal order/DD. No & Date for Rs. 50/- (Not refundable) for registration of application:
12. Academic records from Graduation level onwards (Include details regarding Subjects, Year of passing, Rank, University, etc):
13. Signature of the applicant:
14. Recommendations of the Head of the forwarding Institute with Signature, Designation, Address and Office Seal.

### Important dates

Last date of receipt of applications : 14.8.2014  
Intimation of selection : 18.8.2014



For further information please contact:

**Dr. M. Rosalind George**

Course Director

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Management, Fisheries College and Research  
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**Dr. G. Sugumar**

Dean i/c

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Tamil Nadu Fisheries University  
Thoothukudi, Tamilnadu.

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**ICAR SHORT COURSE ON**

**ADVANCED VIROLOGICAL TECHNIQUES  
IN FISH DISEASE DIAGNOSIS**

**10.09.2014 to 19.09.2014**



**Dr. M. Rosalind George**

Course Director

ICAR Short Course

**Coordinators**

Dr. K. Riji John

Dr. M. J. Prince Jayaseelan

**Department of Fish Pathology  
and Health Management**

**Fisheries College and Research Institute**

**Tamil Nadu Fisheries University**

**Thoothukudi - 628 008**

**Tamil Nadu**