



NBFGR News



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From the Director's Desk....

NBFGR has been working on development of *in vitro* cellular models for assessment of innate immunity in Indian major carps. In this direction, a macrophage cell line was successfully developed from *Catla catla*. Cell line was also developed in an important catfish *Horabagrus brachysoma*. A couple of focused training programmes were conducted for researchers and state fisheries officers. Most important one was organisation of a NAIP-sponsored training programme on 'Allele Mining in Natural Genetic Resources for Targeted Trait Improvement and their Conservation' in which Dr. Rene Guyomard, Directeur de Recherches, INRA, UMR Genetique Animal et Biologie, France was invited as an external resource person. I expect that visit of Dr. Rene Guyomard would help in developing collaborative research programmes of common interest in coming years. We also had the pleasure of having our RAC meeting chaired by Prof. T.J Pandian. The RAC chairman and members gave valuable suggestions to improve and sharpen our research programmes. Compliments go to all my colleagues for their involvement and dedication in achieving the targets.



J.K. Jena
Director

In this issue...

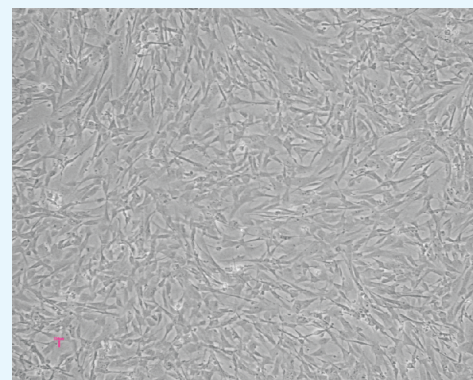
Research Highlights	1
Important Events	3
Awards & Honours	5
Extension Activities	6
Participation in Workshops/ Trainings/Meetings	6
Hindi Version	8

RESEARCH HIGHLIGHTS

Macrophage cell line developed from *Catla catla*

A cell line designated as *Catla catla* macrophage (CCM) has been developed from adherent peripheral blood mononuclear cells of *C. catla*. The cells have been subcultured for more than 90 passages. The cultured cells are avidly phagocytic as revealed by ingestion of yeast cells and fluorescent latex beads. The CCM cells

showed increased production of reactive oxygen and nitrogen intermediates following stimulation with lipopolysaccharide and phorbol esters. The culture supernatant from CCM cells revealed lysozyme-like activity. The CCM cells had Fc receptors on their surface in fluorescent antibody test. Moreover, the cells were positive for alpha-naphthyl acetate esterase enzyme and took up acridine orange, indicating that CCM cells are of macrophage lineage. This cell line was successfully employed for cytotoxicity

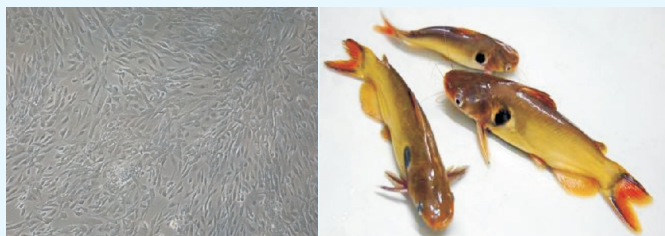


Photomicrograph of CCM cell line
derived from adherent peripheral blood
leukocytes of *Catla catla*

assay, as revealed by uptake of neutral red. This cell line can be useful tool to study the role of macrophages in teleost immune response and development of markers for macrophages.

Development of cell lines in *Horabagrus brachysoma*

Cell lines are indispensable for development of precise diagnostics and isolation of the viral pathogens in fish. *Horabagrus brachysoma*, popularly known as "yellow catfish" is an excellent table fish with high market demand and consumer preference in Kerala. Its omnivorous feeding habit, high fecundity and nutraceutical properties make it a potential species for commercial aquaculture. Juveniles of this species are in great demand in the aquarium trade. Healthy juveniles of yellow catfish with an approximate body weight of 15-50 g were maintained in water containing 500 IU/ml of penicillin and 500 µg/ml of streptomycin at room temperature (25-30°C). A total number of 30 caudal fin explants were taken aseptically, minced into small pieces (approximately 1 mm³ in size) and washed three times in Phosphate Buffer Saline (PBS) containing antibiotics. The tissue fragments were inoculated into 25 cm² cell culture flasks containing 5 ml of complete growth medium (L-15 supplemented with 20% Fetal Bovine Serum (FBS) and antibiotics (penicillin, 100 IU/ml, streptomycin, 100 µg/ml) and Fungizone (2.5 µg/ml). Two cell lines were developed from caudal fin and the current passage level is 12 and 14, respectively. The characterised cell lines will be useful in viral isolation in the species.



Monolayer of fin cells from *Horabagrus brachysoma*

First distribution record of an Eel-loach *Pangio pangia* (Hamilton, 1822) in Ganges River Basin, Northern India

A total of 39 individuals of an eel loach *Pangio pangia* (Hamilton, 1822) were captured recently during a fish biodiversity exploration in River Ganges at Narora, Uttar Pradesh. Long back in 1822, Hamilton had described this species from East India in the River Ganges. However, it has never been reported subsequently, resulting in difficulty in determining not only its locality but also the reason for their non-availability in the Ganges Basin. Therefore, this may be

considered as the first evidence of a broader distributional range of this species which could be more widely distributed than previously acknowledged. From the taxonomic point of view, the genus *Pangio* is particularly important under which only four species (*P. bashai*, *P. pangia*, *P. goaensis* and *P. longipinnis*) were documented in India and generally distributed in Kerala, Goa, Northern Bengal, Assam, Manipur and Myanmar. So far, no definite information on the abundance, distribution and biological aspects of *P. pangia* exists at present.

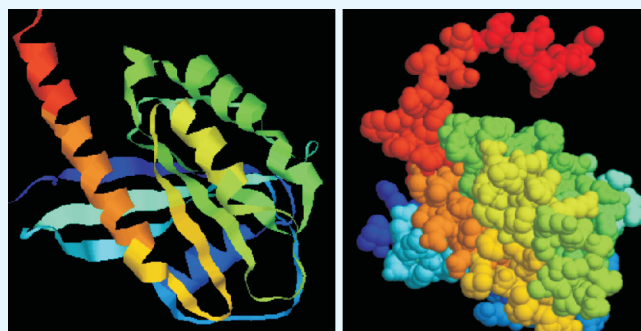
The average total length of 39 specimens was 50.41 mm and ranged between 44.2 to 62.2 mm with average body depth 5.64 mm. Head was very short and its length measured 3.34 times in head width. Standard length was 8.16 ± 0.14 times in body depth. During the netting for small sized fishes at Narora, this species was caught as a by-catch and the fishermen were not much aware of this species because of their very small size and smooth body which can be easily deformed. The conservation status of this species is listed as Least concern (LC) as per IUCN (2010).



Lateral view of *Pangio pangia* (47.41mm SL)

Molecular modelling of envelop protein VP28 of White Spot Syndrome Virus

The bioinformatics work on molecular modelling of proteins of shrimp, *Penaeus monodon* and White Spot Syndrome virus (WSSV) was initiated under the NAIP sponsored project entitled 'Establishment of National Agricultural Bioinformatics Grid in ICAR' to understand the interaction between proteins of the host and parasite. In order to understand the molecular mechanism of disease, the proteins of virus and shrimp involved in the disease were identified.



Cartoon model of protein describing different groups in different colour

Space fill model of protein describing different groups in different colour

Further, the 3D structure of viral envelop protein of WSSV (VP28) has been designed using molecular modelling software Modeller 9v8. The 3D model generated was further checked for its stability by in-built parameters of Modeller9v8 as DOPE score, GA341 score as well as by validation servers as PROCHECK, ERRAT, VERIFY 3D, PROSA and

Ramachandran plot. Validation of the structures yielded high quality energy stabilized structure that can be utilized for investigation of disease mechanism in White Spot Syndrome. The information could further be used to have greater insight into the host-parasite interaction that may eventually help in designing suitable drugs against WSS.

IMPORTANT EVENTS

Training on Conservation and Management of Indigenous Fish Resources and Impact of Exotics

NBFGR organized a five days training programme on Conservation and Management of Indigenous Fish Resources and Impact of Exotics for officers of the state fisheries departments during 6-10 February, 2012. The programme was inaugurated by Shri B.K. Patnaik, IFS, Former Principal Chief Conservator of Forest and Head of Forest Force, Govt. of Uttar Pradesh. Fourteen officers from seven state fisheries departments of the country namely, Arunachal Pradesh, Tripura, West Bengal, Odisha, Chattisgarh, Madhya Pradesh, Punjab, and NFD, Hyderabad attended the programme. The Valedictory Function was graced by the Chief Guest Dr. S. Solomon, Director, Indian Institute of Sugarcane Research, Lucknow.



Chief Guest Dr. B.K. Patnaik, IFS delivering the Inaugural address

Training on Allele Mining in Natural Genetic Resources for Targeted Trait Improvement and their Conservation

A two weeks training programme on "Allele Mining in Natural Genetic Resources for Targeted Trait Improvement and their Conservation" was organized at NBFGR, Lucknow during 25 February-

9 March, 2012, which was sponsored by NAIP. Eighteen selected participants from various research institutes and universities participated in this training. The programme was inaugurated by Dr. Harsharan Das, Principal Secretary, Animal Husbandry and Fisheries, Govt. of UP and presided over by Dr. Bangali Baboo, National Director, NAIP, New Delhi. Dr. Das said that Indian scientists are doing work of global standards but such good work need to be projected appropriately so that it reaches to the end users. In his presidential address, Dr. Baboo highlighted the efforts that NAIP has made in promoting and supporting innovations and human resources development in frontier areas of agricultural sciences in the country. The course was guided by resource persons from NBFGR, Dr. J.K. Jena, Director, NBFGR; Dr. K.K. Lal, Course Director and Dr. V. Mohindra and Dr. Rajeev K. Singh, Course Co-coordinators.

The focus of the course was on understanding the variation among natural genetic resources at functional genomics by way of tools & techniques of allele mining. The course included five days of lectures by international expert on fish population genetics and genomics Dr. Rene Guyomard, Directeur de Recherches, INRA, UMR Genetique Animal et



Dr. Rene Guyomard, Directeur de Recherches, INRA, UMR Genetique Animal et Biologie, France delivering lecture

Biologie, France. The training programme was also addressed by invited speakers on various issues such as Ecotilling, Bioinformatics tools, Bioprospecting of genes, Bacterial genomics and also IPR issues in genetic resources.

Partners Meet' on "Fish Bioinformatics: Challenges and Opportunities"

A Partners Meet on 'Fish Bioinformatics: Challenges and Opportunities' was organized under National Agricultural Innovation Project, 'Establishment of National Agricultural Bioinformatics Grid in ICAR (NABG)' on 20 March, 2012 at NBFGR, Lucknow. Dr. P.S. Pandey, National Coordinator, NAIP was the Chief Guest of the Meet whereas Prof. H. K. Vardia, Dean, College of Fisheries, Indira Gandhi Agriculture University, Raipur, Chhattisgarh was the Guest of Honour. The meeting was attended by distinguished scientists, professors and researchers from ICAR/CSIR Institutes, SAUs and other Universities. In his welcome address Dr. J.K. Jena, Director, NBFGR, Lucknow expressed his views and activities of the project under fisheries domain. Dr. P.S. Pandey, in his inaugural address, summarized the salient activities of various sub-components of NAIP Component-1 and informed about the extension of NABG project up to March, 2013. Dr. Pandey appreciated the achievements made by the Fisheries Domain and requested nodal scientists from ICAR Fisheries Institutes to take up specific research work in fish bioinformatics during the extended period of the project. Dr. N.S. Nagpure, Principal Scientist, NBFGR and CCPI, Fisheries Domain, NABG Project highlighted the salient achievements of fisheries domain, especially the online databases developed under this project. Participants from various organizations presented on bioinformatics activities of their respective organisations and research issues to be undertaken under this project.



A view of the Partners Meet on Fish Bioinformatics

Research Advisory Committee (RAC) Meeting

The RAC meeting of NBFGR was organized on 31 January – 1 February, 2012 under the chairmanship of Prof. T.J. Pandian, Former National Professor, ICAR, Madurai. Dr. A.D. Diwan, Former Assistant Director General (Marine Fisheries), ICAR, New Delhi; Dr. George John, Advisor, DBT, New Delhi; Dr. Y. Basavaraju, Professor, Fisheries Research Station, Hesaraghatta and Dr. Madan Mohan, Assistant Director General, (Marine Fisheries), ICAR, New Delhi participated as expert members of the RAC. In his introductory remarks, the RAC Chairman, Prof. Pandian appreciated NBFGR's research achievements. He advised the scientists to publish research papers in international journals having high impact factor. He urged the scientists to take up programmes in emerging frontier areas of research.

Dr. J.K. Jena, Director, NBFGR welcomed the Chairman and members of RAC and apprised the Committee on the salient achievements made during 2011-12. Based on the recommendations of previous RAC meeting held on 15 March, 2011, an action taken report was presented by Dr. K.K. Lal, Head, PME Cell, NBFGR. The Heads of the Divisions presented salient achievements made under different identified research themes during the year. The RAC reviewed progress of all the ongoing research projects of the Institute and provided significant inputs to improve the research programmes.



RAC meeting Chaired by Prof. T.J. Pandian

National Workshop on Frugal Innovations for Sustainable Solutions in Fisheries and Agricultural Sectors

A National Workshop on "Frugal Innovations for Sustainable Solutions in Fisheries and Agricultural Sectors" was conducted on 24 March, 2012 at NBFGR, Lucknow. Dr. S. Maurya, ADG (IP & TM), ICAR, New Delhi was the Chief Guest of the programme,

whereas, Shri Jayant Krishna, Principal Consultant, Tata Consultancy Services, Lucknow, presided over. Dr. M.K. Awasthi, Faculty IIM, Lucknow and Dr. T.P. Trivedi, Project Director (DKMA), ICAR, New Delhi were Guests of Honour. Dr J.K. Jena, Director, NBFGR, welcomed the delegates and opined that it is a new beginning on a new subject and felt that there is a strong need to take it forward for the benefit of grass root innovators. Dr Mauria, while praising efforts made by NBFGR said the IPR issued should be taken care of in a positive spirit for helping the grassroots innovators. Dr. Mauria expressed that and proper documentation of innovations is need of the day. Dr T.P. Trivedi said that mass media should take active role in diffusion of innovations.



Workshop participants with Guests, Director and Staff of NBFGR

Republic Day Celebrated

A flag hoisting ceremony was observed on the Republic Day. Dr. J.K. Jena, Director hoisted the National Flag in the presence of other staff members of the Bureau. In his address, the Director highlighted the achievements of NBFGR during the year 2011 and shared glimpses of upcoming programmes. Dr. Jena while complimenting the efforts of the staff members also reminded the staff about their rights and duties towards growth of the institute. The programme was followed with a small cultural programme in which large number of children of the NBFGR family participated.



Dr. J.K. Jena, Director addressing the Staff on Republic Day

AWARDS AND HONORS

Dr. A. Gopalakrishnan, Principal Scientist and Incharge, NBFGR Kochi Unit was elected as the Chairman/ Member of the following Committees of various external institutions:

Chairman, Genetics & Biodiversity of the E-Consultation of Task Force Members for Development of Network of Aquaculture Centers in Asia-Pacific (NACA), Bangkok Regional Thematic Work Programs (2012-2016).

Member, Scientific Advisory Committee and Member, Evaluation Committee of the Rajiv Gandhi Centre for Aquaculture, Sirkazhi, Tamil Nadu

Dr. A. K. Pandey, Principal Scientist was conferred with Dr. Ananad Prakash Award of the Applied Zoologists Research Association (AZRA) during the 13th AZRA conference on Applied Zoological Researchers for National Food Security of Environmental Protection held during 15-16 February, 2012 at CRRI, Cuttack.

Sh. Rajesh Dayal T-7-8 awarded the Distinguish Service Award 2012 by the Bioved Research Society, Allahabad during 14th Indian Agricultural Scientists' and Farmers' Congress on 19 February, 2011 at Allahabad. Sh. Dayal was also awarded the Honorary



Dr. V.S. Basheer, Sr. Scientist, NBFGR Kochi Unit receiving the first prize for the Best Exhibit (Black Paraiba Angel fish) during "International Aqua show 2012" at Kochi

Fellowship of the Society of Life Sciences, Satna, M.P.
 NBFGR stall was awarded first prize for the Freshwater Angel Fish display in the "International Aqua Show 2012" conducted by Department of

Fisheries, Government of Kerala, at Kochi, during 10 - 15 February, 2012. The prize was presented by Additional Chief Secretary and Secretary of Department of Fisheries, Govt. of Kerala.

EXTENSION ACTIVITIES

The Institute participated in the following exhibitions/ farmers fairs at different places of the country:

Exhibition in connection with the International Aqua show 2012 at Kochi during 10-15 February 2012.

Exhibition in connection with the National Conference on New Vistas in Indian at CIBA, Chennai during 10-15 February, 2012.

Fish Festival during 4-6 February, 2012 at Bhopal.

Science Expo 2012 during 1-5 Feb 2012 at Regional Science City, Lucknow

Exhibition in connection with the National Conference on Aquaculture: Fish for Billion at CIFA, Bhubaneswar during 16-17 March, 2012.

Exhibition for Showcasing of Agricultural Technologies organized by CISH, Rehmankheda, Lucknow at Thawar Village, Lucknow on 22 March, 2012.

National Sugar Fest at IISR, Lucknow during 23-24 March, 2012.

Dr. A.K. Singh, Principal Scientist delivered a Radio talk on "*Machhali palan*" for Akashvani Lucknow on 2 February, 2012.



Visitors at NBFGR stall in exhibitions



PARTICIPATION IN WORKSHOPS/SEMINARS/MEETINGS/TRAININGS

Abroad:

Dr. Ravindra Kumar, Senior Scientist participated in a NAIP sponsored international training on Transgenic Animals (Fisheries) at Fish Developmental Biology Lab, Institute of Molecular and Cell Biology, A*STAR, Biopolis, Singapore, during 5 October, 2011-2 January, 2012.

Dr. Neeraj Sood, Senior Scientist participated and made a Country Presentation on The Status and Issues Associated with Brackish Water Aquaculture Systems in India during Regional Expert Group Workshop on Transboundary Aquatic Animal Health Issues in the Bay of Bengal held at Bangkok, Thailand during 12-13 January, 2012.

In India:

Dr. J.K. Jena, Director participated in the following meetings/ seminars/ workshops:

Indian Science Congress at Bhubaneswar during 3-6 January, 2012.

National Consultation on Prioritization of Research programmes for XII Plan at CIFRI, Barrackpore on 18 January, 2012.

Participated and delivered a lecture on Fish Biodiversity and its Management in Fish Festival at Bhopal on 5 February, 2012.

DBT Task Force meeting on Fish genomics at Chennai on 6 February, 2012.

Brainstorming session on DBT sponsored Biotechnology based Development of Fisheries and Aquaculture Sciences in North east India at Lembuchera, Tripura on 11 February, 2012.

Directors – Vice-Chancellors Interface and Directors' Conference at NASC, New Delhi during 17-18 February, 2012.

Participated and delivered a lead lecture on Diversification of Species, Culture systems and Practices in National Conference on New Vistas in Indian Aquaculture at CIBA, Chennai on 23 February, 2012.

Meeting of the Expert Committee on Agro-biodiversity at NBA, Chennai on 24 February, 2012.

Meeting of the Network project on Fish Genetic Stocks at CIFA, Bhubaneswar on 27 February, 2012.

Workshop on Sustainable livelihood and Food Security at CARI Regional Center, Bhubaneswar on 28 February, 2012 as Chief Guest.

National Conference on Aquaculture: Fish for Billion at CIFA, Bhubaneswar during 16-17 March, 2012.

Ist Meeting of Expert Committee for North eastern region Biotechnology Programme in Aquaculture & Fishery at DBT, New Delhi on 26 March, 2012.

Dr. Vindhya Mohindra, Principal Scientist participated in the following meetings/ workshops:

6th Task Force meeting of DBT on Aquaculture and Marine Biotechnology at University of Madras, Chennai during 6-7 February, 2012.

Stakeholders' interaction meeting of NAIP project on Harmonizing biodiversity conservation and agricultural intensification at CCSHPKV, Palampur, HP on 27 March, 2012.

Dr. A. Gopalakrishnan, Principal Scientist and Incharge, NBFGR Kochi Unit attended the following meetings/ workshops:

Institute Management Committee Meeting of Central Agricultural Research Institute, Port Blair on 7 March, 2012.

A Meeting to identify critical research problems in Indian agriculture for prioritization of research issues on 14 March, 2012 at Krishi Bhawan, New Delhi.

23rd Meeting of the Scientific Advisory Committee of Rajiv Gandhi Centre for Aquaculture on 23 March, 2012 at MPEDA, Kochi, Kerala.

Dr. T.R. Swaminathan, Scientist (SS) and Mr. A. Kathirvelpandian, Scientist attended the National Conference on New Vistas in Indian Aquaculture at CIBA, Chennai during 10-15 February, 2012.

Dr. V. S. Basheer, Sr. Scientist attended the National Conference on Aquaculture: Fish for Billion at CIFA, Bhubaneswar during 16-17 March, 2012.

Dr. S. Raizada, Principal Scientist attended the following meetings/ seminars:

Inception Meeting of ICAR Mega Seed Project at M.P. University of Agri. & Tech., Udaipur during 16-17 January, 2012.

National Seminar on Management of salt-affected Soils and Waters: Challenge of the 21st Century at CSSRI Regional Research Station, Lucknow during 16-17 March 2012.

Dr. L.K. Tyagi, Scientist (SS) participated in the following meetings/workshops:

Stakeholders' interaction meeting of NAIP project on Harmonizing biodiversity conservation and agricultural intensification at NBPGR Regional Station, Hyderabad on 22 February, 2012.

Sensitization-cum-Training Workshop on Half Yearly Performance Monitoring of Scientist (HYPM) for the PME Cell at IASRI, New Delhi on 3 March, 2012.

Stakeholders' interaction meeting of NAIP project on Harmonizing biodiversity conservation and agricultural intensification at CCSHPKV, Palampur, HP on 27 March, 2012.

Dr. A.K. Singh, Principal Scientist gave technical lectures as invited speaker in the following seminars:

International Symposium on Comparative Endocrinology and Stress Physiology (CESP-2012) at Kerala University, Thiruvanthapuram on 16-18 February, 2012.

XXIII National Symposium on Chronobiology and Seminar on Diversity and Physiology of Desert Fauna at Jai Narayan Vyas University, Jodhpur during 1-3 March, 2012.

Dr. S. Raizada, Pr. Scientist, Dr. P.K. Varshney, Sr. Scientist; Shri A.K. Yadav, Technical Officer (T-7-8), Shri S.K. Singh, Technical Officer (T-5) and Dr. Vikas Sahu, T-3 attended a National Seminar on "Management of Salt Affected Soils and Waters: Challenges of the 21st Century at Central Soil Salinity Research Institute, Regional Research Station, Lucknow during 16-17 March, 2012.

समाचार सारांश

अनुसंधान समाचार

कतला कतला से मैक्रोफेज कोशिका लाइन

संस्थान ने कतला मछली की मोनोन्यूक्लियर कोशिकाओं से एक मैक्रोफेज कोशिका लाइन विकसित की जिसके 90 से अधिक पसाज कल्चर किए जा चुके हैं। इस कोशिका लाइन का सायटोटोक्सिक ऐसे हेतु सफलतापूर्वक प्रयोग किया गया।

होराबैग्रस ब्रैकीसोमा से कोशिका लाइन का विकास

संस्थान ने होराबैग्रस ब्रैकीसोमा के काडल फिन से दो कोशिका लाइन विकसित की जिनकी उपयोग इस प्रजाति से विषाणुओं के पृथक्करण में किया जा सकता है।

गंगा नदी बेसिन में ईल लोच मछली का उत्तर भारत से पहला अभिलेख

ब्यूरो द्वारा किए जा रहे शोध सर्वेक्षण के दौरान, गंगा नदी में नोरा, उ.प्र. से ईल लोच मछली के 39 नमूने पाए गए। इस प्रजाति का वर्णन वर्ष 1822 में हैमिल्टन ने गंगा नदी में पूर्वी भारत से किया था किन्तु उसके बाद यह प्रजाति, गंगा नदी बेसिन से दोबारा कभी रिपोर्ट नहीं की गई थी जिससे गंगा नदी में इसकी उपलब्धता व प्राप्ति स्थल निर्धारित करने में कठिनाई थी। इस प्रकार इस अध्ययन को, इस प्रजाति के वृहत वितरण रेंज को जानकारी की दिशा में पहला प्रमाण माना जा सकता है। चूंकि इस प्रजाति को गंगा नदी बेसिन में बहुत लम्बे अंतराल के बाद पाया गया है, इसलिए यह सुनिश्चित नहीं है कि इस प्रजाति की जनसंख्या गंगा नदी की निवासी है अथवा नहीं, अतः, इसके निर्धारण हेतु गंगा नदी बेसिन की विभिन्न धाराओं व उपनदियों में और अन्वेषण की आवश्यकता है।

व्हाइट स्पॉट सिन्ड्रोम वायरस की एनवेलप वीपी 28 प्रोटीन की मालीकुलर माडलिंग

संस्थान में व्हाइट स्पॉट सिन्ड्रोम वायरस तथा झींगा की प्रोटीन्स की मालीकुलर माडलिंग पर कार्य प्रारम्भ किया गया। WSSV झींगा (पीनीयस मोनोडोने) की एक बहुत ही घातक बीमारी है जोकि इसकी उपज को बहुत हानि पहुँचाती है। इस अध्ययन द्वारा अधिक तकनीक की मदद से इस बीमारी और इसके रोगजनक वायरस की कार्यप्रणाली को समझने हेतु इनकी विभिन्न प्रोटीन्स की पहचान की गई। इस अध्ययन के परिणामों से, इस बीमारी के विरुद्ध औषधि डिजाइन करने में मदद मिल सकती है।

महत्वपूर्ण कार्यक्रम

संस्थान में 'देशज मत्स्य संसाधनों के संरक्षण एवं प्रबंधन तथा विदेशी मछलियों के प्रभाव' पर 6-10 फरवरी, 2012 को एक प्रशिक्षण कार्यक्रम का आयोजन किया गया जिसमें सात राज्यों के 14 राज्य मात्स्यिकी विभाग के अधिकारियों ने प्रशिक्षण प्राप्त किया। कार्यक्रम में कुल 18 तकनीकी व्याख्यान दिए गए। यह कार्यक्रम राष्ट्रीय मात्स्यिकी विकास बोर्ड, हैदराबाद द्वारा वित्त पोषित था।

संस्थान ने देश के विभिन्न भागों में आयोजित 7 प्रदर्शनियों/ किसान मेलों में भाग लिया।

संस्थान में 'एलील माइनिंग इन नेचुरल जेनेटिक रिसोर्सेज फार टारगेटिड ट्रेट इम्प्रूवमेंट एण्ड देअर कन्जर्वेशन' पर 25 फरवरी - 9 मार्च, 2012 के दौरान एक प्रशिक्षण कार्यक्रम का आयोजन किया गया। एनएआईपी द्वारा प्रायोजित इस कार्यक्रम में देश के विभिन्न भागों से आए 18 चयनित शोधार्थियों ने भाग लिया।

संस्थान ने एनएआईपी की एनएबीजी परियोजना के अन्तर्गत 20 मार्च, 2012 को 'फिश बायोइंफारमेटिक्स : चुनौतियाँ एवं अवसर' विषय पर एक पार्टनर्स मीट का आयोजन किया जिसमें देश के विभिन्न भागों से आए परियोजना सहयोगियों ने भाग लिया।

संस्थान की शोध सलाहकार समिति की बैठक दिनांक 31 जनवरी-1 फरवरी, 2012 को प्रो.टी.जे. पांडियान की अध्यक्षता में आयोजित की गई।

संस्थान में 26 जनवरी, 2012 को गणतंत्र दिवस धूमधाम से मनाया गया।

पुरस्कार एवं अन्य सम्मान

डा. ए. गोपालकृष्णन, प्रधान वैज्ञानिक व प्रभारी, एनबीएफजीआर, कोची यूनिट को एन.ए.सी.ए., बैकाक, थाईलैंड; राजीव गांधी सेन्टर फॉर एक्वाकल्चर, सिरकाजी, तमिलनाडु; सीएआरआई, पोर्टब्लेअर और एन बी ए जी आर, करनाल की विभिन्न तकनीकी/प्रबंध समितियों का सदस्य नामित किया गया।

श्री राजेश दयाल, टी-7-8 को बायोवेद रिसर्च सोसायटी, इलाहाबाद द्वारा 'विशिष्ट सेवा पुरस्कार 2012' प्रदान किया गया।

एनबीएफजीआर को कोची, केरल में 10-15 फरवरी, 2012 को आयोजित 'अन्तर्राष्ट्रीय एक्वा शो 2012' में मीठाजल एंजल मछली के प्रदर्शन हेतु, 'सर्वश्रेष्ठ प्रदर्शन' पुरस्कार प्रदान किया गया।

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