



ICAR-NIVEDI News

Volume 11, Issue 1

January-June 2021



Director's Desk

New Year Greetings to all!


ICAR-NIVEDI had pitched its sincere efforts for the sustainable scientific activities, although the regular institute activities were hampered because of COVID-19 pandemic second wave lockdown during April to June, 2021. The 13th RAC meeting was held on 6th March 2021 to guide and refine the research agendas and way forward with necessary recommendations. Hon'ble Dr. B.N. Tripathi, Deputy Director General (Animal Science), ICAR, New Delhi visited ICAR-NIVEDI on 25th January, 2021 and inaugurated Rain Water Harvesting structure. He appreciated the multifaceted progress of the institute and applauded the contributions made by scientists in control of various animal diseases including FMD and Brucellosis. ICAR-NIVEDI participated and exhibited research activities and diagnostic services in National Horticultural Fair-2021 held during 8-12th February, 2021 at IIHR, Bengaluru. A training cum health awareness programme on "Effective Health Management for Enhancing Work Efficiency" was organized on 8th January, 2021 with lecture by Dr. K. Jayanna, Dean, Faculty of Life and Allied Health Sciences, Ramaiah University of Applied Sciences. National Science day was celebrated on 28th February, 2021 with the theme "Future of STI: Impact of Education, Skills and Work" and Dr. Mahesh A.S., Joint Commissioner & Director, CPDO, Hessarghatta shared his thoughts and experience. International women's day was celebrated on 8th March, 2021 with chief guest Mrs. Kavitha Mishra, Managing Director, Sandal Farm, Raichur and felicitation of women farmers for their significant contributions was done. Dr. Rajeswari Shome, Principal Scientist was felicitated for her significant professional contribution including development and patenting of diagnostic technologies, excellent outreach to farmers and highest revenue generation to the Institute on this occasion. Under Development Action Plan for Scheduled Caste (DAPSC) scheme, goat units (2 Females +1 Male) were distributed to 40 beneficiaries in coordination with KSWDCL, Tumkur on 21st March, 2021 at Pemmavarahalli, Tumkur. Around 700 farmers including women were trained on Scientific Animal Husbandry practices and allied sectors viz., apiculture, mushroom cultivation, horticulture to ensure doubling farmer's income. An awareness programme on Zoonotic diseases under OPZD was also conducted. ICAR-NIVEDI staffs participated in World Water Day celebrations on 22nd March, 2021 by participating in the special lecture by Dr. Mark Smith, Director General, International Water Management Institute and an essay competition on "Innovative solutions for the water crisis" among staffs was organized. Farewell function of Shri Narayanaswamy, AAO who has superannuated on 30th June, 2021 was organized.

Hon'ble Dr. B.N. Tripathi, DDG (Animal Science), ICAR, New Delhi, visit to ICAR-NIVEDI




Hon'ble Dr. B.N. Tripathi, DDG (Animal Science), ICAR, New Delhi visited ICAR-NIVEDI and interacted with the Scientists on 25th January, 2021. During the visit, DDG (AS) inaugurated the Rain Water Harvesting structure and released a book on "Pig Diseases and Management" and a CD on "Sampling Plan software".

Research Achievements





Sampling Plan for Seromonitoring of Brucellosis in India under National Brucellosis Control Programme




ICAR-National Institute of Veterinary Epidemiology and Disease Informatics (NIVEDI)

Dr K P Suresh, Principal Scientist
 Dr S S Patil, Principal Scientist
 Dr Divakar Hemadri, Principal Scientist
 Dr Parimal Roy, Director





Sampling Plan for Seromonitoring of FMD in India under National Animal Disease Control Programme (NADCP) Round – II



ICAR-National Institute of Veterinary Epidemiology and Disease Informatics (NIVEDI)

Dr K P Suresh, Principal Scientist
 Dr S S Patil, Principal Scientist
 Dr D Hemadri, Principal Scientist



ICAR-Directorate of Foot and Mouth Disease (DFMD)

Dr Saravanan S, Sr. Scientist
 Dr J K Madhupratna, Sr. Scientist
 Dr R P Singh, Director

Sampling plans for seromonitoring of Foot and Mouth Disease (FMD) and Brucellosis in India were prepared by ICAR-NIVEDI under National Animal Disease Control Programme (NADCP). The sampling plans were provided to the Department of Animal Husbandry and Dairying, Ministry of Fisheries, Animal Husbandry and Dairy, Government of India, New Delhi and further circulated to various states and union territories in India for sample collection.

Scientific Activities



Dr . B.R. Shome, Director (A), ICAR-NIVEDI met Hon'ble Dr. Trilochan Mohapatra, Secretary, DARE & DG, ICAR on 20th March, 2021 at ICAR-NIANP, Bengaluru and discussed about the EFC of the institute.



Virtual 13th Research Advisory Committee (RAC) meeting of ICAR-NIVEDI was held under the Chairmanship of Hon'ble Dr. C. Balachandran, Vice Chancellor, TANUVAS, Chennai on 6th March, 2021 and the progress made in the research activities by the scientists during the year 2020-21 was reviewed. The other RAC members present were Prof. Gaya Prasad, Vice Chancellor, Sardar Vallabhbhai Patel University of Agriculture and Technology, Meerut, Dr.K. Prabhudas, Former Director, PD_ADMAS, Dr. Ashok Kumar, ADG (AH), ICAR, Dr. Manoj V. Murhekar, Director, ICMR-National Institute of Epidemiology, Chennai, Dr. V. V. S. Suryanarayana, Former Principal Scientist, IVRI, Dr. Manoj Raje, Chief Scientist, CSIR-Institute of Microbial Technology, Chandigarh, Dr.B.R.Shome, Director (A), ICAR-NIVEDI, Shri Ashok Allapur, Farmer's representative, Vijayapura, and Dr. V. Balamurugan, Principal Scientist and Member Secretary, ICAR-NIVEDI.



The 17th Institutional Animal Ethics Committee (IAEC) meeting of ICAR-NIVEDI was held on 30th January, 2021 under the Chairmanship of Dr. B.R. Shome, Director (A). Dr. R.K. Shakthi Devan, CPCSEA Main Nominee, Dr. Jagadish Sanganal, CPCSEA Link Nominee, Dr. Shiva Kumar, Scientist from outside the Institute, Dr. R.G. Prakash, socially aware Nominee and other IAEC members from ICAR-NIVEDI attended the meeting



ICAR-NIVEDI celebrated the National Science Day on 28th February, 2021 and guest lecture was delivered by Dr. Mahesh A.S., Joint Commissioner & Director, CPDO, Bengaluru.



Institute Technology Management Committee (ITMC) meetings of ICAR-NIVEDI were held on 12th February and 10th March, 2021 under the Chairmanship of Dr. B.R. Shome, Director (A)

and discussed the various ITMU activities. The Evaluation Committee members were Dr. B.P. Sreenivasa, ICAR-IVRI, Bengaluru, Dr. D. Hemadri, Dr. P.P. Sengupta, Dr. K.P. Suresh, and Dr. M. Nagalingam, Scientists, ICAR-NIVEDI.



Dr. Monal Daptardar, Consultant Public Health and Ms. Trishala Sharma, Data Manager, NCDC, New Delhi visited ICAR-NIVEDI and had discussion with the Director, ICAR-NIVEDI on 25th March, 2021.

Important Events



ICAR-NIVEDI organized a health awareness programme on 8th January, 2021. Dr. K. Jayanna, Dean, Faculty of Life and Allied Health Sciences, Ramaiah University of Applied Sciences delivered a lecture on “Effective Health Management for Enhancing Work Efficiency”.



The 72nd Republic day was celebrated by ICAR-NIVEDI on 26th January, 2021 and Dr. B.R. Shome, Director (A) addressed the staff on this occasion.



ICAR-NIVEDI participated in the National Horticultural Fair held during 8-12th February, 2021 organized by Indian Institute of Horticultural Research, Bengaluru and exhibited the research activities carried out by the institute for the benefit of the farmers.



ICAR-NIVEDI celebrated the International Women's Day on 8th March, 2021 and Mrs. Kavitha Mishra, Managing Director, Sandal Farm, Raichur was the Chief guest for the function. On the occasion, Dr. B.R. Shome, Director (A) felicitated the progressive women farmers for their significant contributions.



Institute Joint Staff Council meeting of ICAR-

NIVEDI was held under the Chairmanship of Dr. B.R. Shome, Director (A) on 29th June, 2021 and other IJSC members attended the meeting.



ICAR-NIVEDI organized farewell to Mr. N. Narayanaswamy, Assistant Administrative Officer on the occasion of superannuation on 30th June, 2021.

Swachh Bharat Abhiyan



As part of Swachh Bharat Abhiyan programme, cleaning and beautification of institute and its surrounding areas were undertaken on regular manner. During the Animal Health Camps conducted by ICAR-NIVEDI, a drive on maintenance of sanitation and solid waste management, cleanliness in the villages were conducted. Special care was taken to ensure the COVID-19 appropriate behaviour among the staff members like provision of sanitizers and face masks, regular temperature monitoring, periodical sanitization of buildings and surrounding areas. The other activities include regular cleaning

of solar panels, diesel generator, air filters, air stacks and cleaning of underground sumps at different places in the institute.



During the period, removal of waste, debris and plants from the pond was undertaken to ensure the storage of the clean water.

**Development Action Plan
for Scheduled Caste
(DAPSC)**



Under the Development Action Plan for Scheduled caste scheme, the Director, ICAR-NIVEDI distrib-

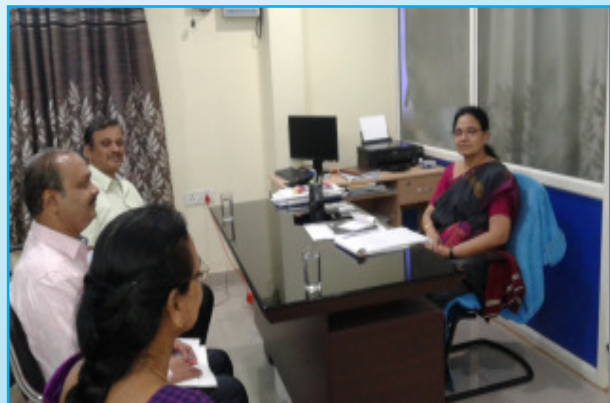


uted goat units (2F+1M) and feed bags to 40 beneficiaries in coordination with KSWDCL, Tumkur at Pemmadevarahalli, Tumkur on 21st March, 2021. ICAR-NIVEDI organized animal health camps for Scheduled caste farmers in collaboration with State Animal Husbandry Department, Alipur, Gauribidanur, Chikkaballapur district during 25-26th March and 21st April, 2021.



ICAR-NIVEDI conducted Training Programme on Skill Development in Scientific Animal Husbandry practices and practical farm visits, in collaboration with ICAR-KVK, Konehalli, Tumkur on 9th March, 2021. Training programme on Livestock production technologies, agriculture and allied activities under SCSP programme was organized at ICAR-Krishi Vigyan Kendra, Hirehalli, Tumukur during 18th, 24-25th March, 2021.

**Livestock Disease Investigations/
Field visits**



Dr. K.P. Suresh, Principal Scientist and Dr. P. Krishnamoorthy, Senior Scientist visited AICRP on

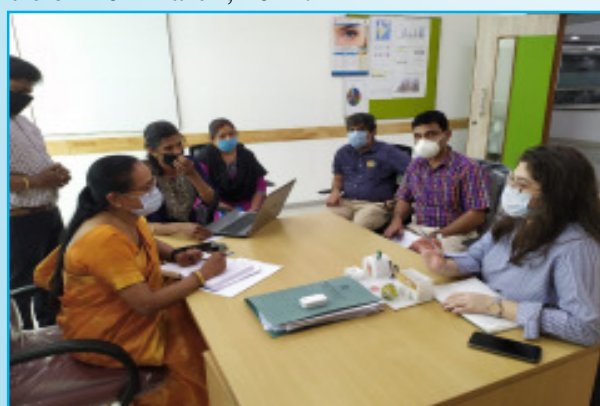
Human Resource Development



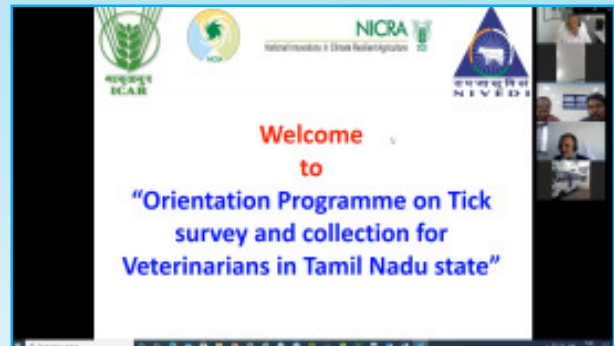
ADMAS centres Vijayawada, Andhra Pradesh and Hyderabad, Telangana states on 16th and 18th February, 2021, respectively and discussed about the implementation of NICRA project work.



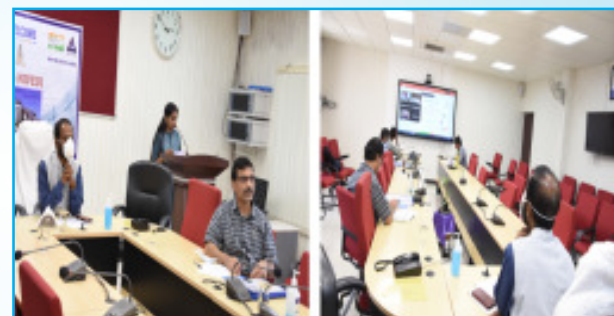
Dr. P. Krishnamoorthy, Senior Scientist visited the Veterinary Epidemiology Centre, Chennai and had discussion on NICRA project work with Chief Epidemiology Officer and PI, AICRP on ADMAS centre on 10th March, 2021.



Dr. D. Hemadri and Dr. V. Balamurugan, Principal Scientists had discussion with State Project Director, IDSP at Health and Family Welfare Department, Bengaluru on 23rd March, 2021.



Dr. P. Krishnamoorthy, Senior Scientist, ICAR-NIVEDI organized Orientation programme on Tick survey and collection for Veterinarians in Tamil Nadu state under NICRA Project through online mode on 6th January, 2021.



ICAR-NIVEDI organized “Sensitization e-workshop on important Zoonotic diseases” for Karnataka and “Meeting of state level zoonosis committee in Kerala” for Kerala states during 10th February and 17th March, 2021, respectively under Intersectoral co-ordination programme sponsored by NCDC, New Delhi.



ICAR-NIVEDI conducted Training Programme on Skill Development in Scientific Animal Husbandry practices and practical farm visits for the benefit of Scheduled caste farmers, in collaboration with ICAR-Krishi Vigyan Kendra, Konehalli, Tumkur on 9th March, 2021.



ICAR-NIVEDI organized awareness programme on Zoonotic Diseases under Outreach Programme on Zoonotic Diseases project at Pemmadevarahalli village, Koratagere, Tumkur, Karnataka on 21st March, 2021.

Patents Granted

1. Recombinant VSG and monoclonal antibody based competitive inhibition enzyme linked immunosorbent assay for the detection of antibodies against *Trypanosoma evansi*. (Patent Number: 361741; Date of filing: 25.01.2015; Date of grant: 18.03.2021; Inventors- Dr. Pinaki Prasad Sengupta, Dr. Ligi Milesh, Dr. Vinayagamurthy Balamurugan and Dr. Habibur Rahman).

2. Monoclonal antibody based double antibody sandwich ELISA for the detection of *Trypanosoma evansi* antigen in animals. (Patent Number: 369790; Date of filing: 20.06.2015; Date of grant: 21.06.2021, Inventors- Dr. Pinaki Prasad Sengupta, Dr. Ligi Milesh and Dr. Habibur Rahman).

New Projects Sanctioned

1. DAHD project on Brucellosis Control Programme (B-CP) (Component: ELISA Kit supply and capacity building) under NADCP - PI: Dr. Rajeswari Shome, Principal Scientist.
2. DAHD project on Sampling plan generation for carrying out sero-surveillance & sero-monitoring and data analytics for FMD and Brucellosis under NADCP - PI: Dr. K.P. Suresh, Principal Scientist.
3. NASF project on Epidemiology and antiviral therapeutic development (Component: Optimal sampling strategies for detecting animal corona viruses, risk analysis and surveillance for porcine respiratory and enteric corona viruses) - PI: Dr. K.P. Suresh, Principal Scientist.
4. DBT project on Advanced Animal Disease Diagnosis and Management Consortium (ADMaC): Phase II- Subproject 3: Validation and field testing of DIVA test developed in ADMaC phase I project for surveillance of brucellosis in North eastern region of India- PI: Dr. Rajeswari Shome, Principal Scientist.
5. DBT project on Advanced Animal Disease Diagnosis and Management Consortium (ADMaC): Phase II- Subproject 5: Upgradation and implementation of Knowledge Based System (KBS) in NER of India (An extended activity of Advanced Animal Disease Diagnosis and Management Consortium) - PI: Dr. K.P. Suresh, Principal Scientist.

**Participation in Virtual Meetings/
Seminars/Symposia/Trainings**

1. Dr. B. R. Shome, Director (A), attended the Review Meeting of Officers & Staff of DARE & ICAR held under the Chairmanship of Secy. (DARE) & DG, ICAR on 1st January, 2021.
2. Dr. V. Balamurugan, Principal Scientist participated in the one health virtual workshop on 'Tripartite regional workshop on diagnosis, surveillance and control of rabies' organized by Veterinary College, KVAFSU, Hebbal, Bengaluru and NCDC Delhi on 12th January, 2021.
3. Dr. B. R. Shome, Director (A), attended the meeting with Agromet Division of Indian Meteorological Department, New Delhi on 27th January, 2021.
4. Dr. B. R. Shome, Director (A), attended the 92nd Annual General Meeting of the ICAR Society held on 27th January, 2021.
5. Dr. B. R. Shome, Director (A), attended the convergence meeting between DAHD, GOI and ICAR under the Joint Chairmanship of AHC, DAHD and DDG (AS), ICAR pertaining to Disease Control Programmes including NADCP on 10th February, 2021.
6. Dr. B. R. Shome, Director (A), attended the 6th Advisory Board Meeting of INFAAR on 18th February, 2021.
7. Dr. B. R. Shome, Director (A), attended the WHONET Backline training of INFAAR on 23rd February, 2021.
8. Dr. P. Krishnamoorthy, Senior Scientist participated in the Training programme on 'Morphological identification of ticks at genus and species level' organized by Department of Veterinary Parasitology, Madras Veterinary College, Chennai during 18-22nd January, 2021.
9. Dr. V. Balamurugan, Principal Scientist and Dr. R. Sridevi, Senior Scientist participated in the international webinar on 'Alternative therapies to mitigate AMR' organized by ICAR-IVRI, Izatnagar, Bareilly, U.P during 23-24th February, 2021.
10. Dr. P. Krishnamoorthy, Senior Scientist participated in the webinar on 'Agriculture research through knowledge discovery' organized by EBSCO, New Delhi on 23rd February, 2021.
11. Dr. B. R. Shome, Director (A), attended the meeting of the Expert Committee to discuss the National strategic road map for control of PPR on 15th March, 2021.
12. Dr. V. Balamurugan, Principal Scientist and Dr. R. Sridevi, Senior Scientist participated in the international symposium & workshop on 'One health in India: Research informing biosafety, preparedness and response' organized by Indian Council of Medical Research on 12th April, 2021.
13. Dr. V. Balamurugan, Principal Scientist attended 'PPR global research and expertise network (PPR-GREN) thermo-tolerant vaccine meeting' by virtual mode organized by OIE, France on 23rd April, 2021.
14. Dr. R. Sridevi, Senior Scientist attended international webinar on 'One health approach during pandemics' organized by Centre for tropical one health, Rajiv Gandhi Institute of Veterinary Education and Research, Puducherry on 24th April, 2021.
15. Dr. Chethan Kumar H. B, Scientist attended online training on 'Meat frauds and authenticity: Recent analytical approaches' organized by FSSAI and Thermo Fischer Scientific on 26th April, 2021.

16. Dr. V. Balamurugan, Principal Scientist participated in the webinar on 'European Leptospirosis' organized by European Leptospirosis Society, Scientific direction infectious diseases in animals, Belgium on 6th May, 2021.
 17. Dr. Chethan Kumar H. B, Scientist participated in the international e-symposium on 'One health concept: Opportunities and perspectives in present scenario' & XVII annual conference of IAVPHS organized by Centre for one health, Guru Angad Dev Veterinary and Animal Sciences University, Ludhiana, Punjab during 28-29th May, 2021.
 18. Dr. Chethan Kumar H. B, Scientist attended webinar on 'Safe food today for a healthy tomorrow' organized by Mumbai Veterinary College, Mumbai, Maharashtra Animal and Fishery Sciences University, Nagpur on 7th June, 2021.
6. ICAR-NIVEDI organized training program on 'Skill development in scientific animal husbandry practices' under DAPSC in collaboration with ICAR-KVK, Konehalli, Tumukur on 9th March, 2021.
 7. ICAR-NIVEDI organized training programme on 'Role of kitchen garden in achieving nutritional security' under DAPSC in collaboration with DATC, Tumukur on 16th March, 2021.
 8. ICAR-NIVEDI as South regional co-ordinator organized 'Meeting of state level zoonosis committee in Kerala' sponsored by NCDC, New Delhi under intersectoral co-ordination programme on 17th March, 2021.
 9. ICAR-NIVEDI organized training programme on 'Organic farming for doubling farmers' income' under DAPSC in collaboration with DATC, Tumukur on 17th March, 2021.

Trainings/Workshops/Animal Health Camps Organized

1. ICAR-NIVEDI organized training programme on 'Effective health management for enhancing work efficiency' on 8th January, 2021.
2. ICAR-NIVEDI organized DST sponsored virtual training program on 'Technology-Based Entrepreneurship Development Program (DST-TEDP)' during 11th January to 2nd March, 2021.
3. ICAR-NIVEDI organized 'RKVY-RAFTAAR Agripreneurship orientation, training, and mentorship program' during 23rd January, 2021 to 25th March, 2021.
4. ICAR-NIVEDI organized webinar on 'Entrepreneurship opportunities in Post-Harvest Technologies' on 29th January, 2021.
5. ICAR-NIVEDI as South regional co-ordinator organized 'Sensitization e-workshop on important zoonotic diseases of Karnataka state' sponsored by NCDC, New Delhi under intersectoral co-ordination programme on 10th February, 2021.
10. ICAR-NIVEDI organized training on 'Livestock production technologies, agriculture and allied activities' under DAPSC in collaboration with ICAR- KVK, Hirehalli, Tumukur during 18th, 24-25th March, 2021.
11. ICAR-NIVEDI organized training programme on 'Integrated farming system (IFS) for sustainable income' on 20th March, 2021.
12. ICAR-NIVEDI organized 'Awareness programme on zoonotic diseases' at Pemmadevarahalli, Korategere Taluk, Tumkur District for SC farmers under OPZD on 21st March, 2021.
13. ICAR-NIVEDI organized training program on 'Modern animal husbandry practices' at Sheep Breeding and Training Center, Kudapura farm, Challekere under DAPSC in collaboration with KSWDL, Chitradurga and Veterinary Dispensary, Purlahalli, Chitradurga District on 23rd March, 2021.

14. ICAR-NIVEDI organized training programme on 'Creating awareness on development schemes of agriculture, horticulture and animal husbandry departments' under DAPSC in collaboration with DATC, Tumukur on 25th March, 2021.
15. ICAR-NIVEDI organized animal health camp cum training programme on 'Modern animal husbandry practices' under DAPSC at Dyaavarahahalli, Chitradurga district on 25th March, 2021.
16. ICAR-NIVEDI organized training programme on 'Bee farming (Apiculture) for increasing farmer's income under DAPSC in collaboration with DATC, Tumukur on 26th March, 2021.
17. ICAR-NIVEDI organized training programme on 'Zero budget natural farming: minimum cost and maximum profit' under DAPSC on 26th March, 2021.
18. ICAR-NIVEDI organized animal health camp cum training programme on 'Modern Animal Husbandry Practices' at Rajeevanagara, Chitradurga district, Karnataka on 26th March, 2021.

Joining/Promotion/Transfer

1. Shri. N. Narayanaswamy, Assistant Administrative officer was superannuated from service on 30th June, 2021.

Distinguished visitors

1. Dr. B.N. Tripathi, Deputy Director General (Animal Science), ICAR, New Delhi
2. Dr. Mahesh A.S., Joint Commissioner & Director, CPDO, Hessarghatta, Bengaluru
3. Mrs. Kavitha Mishra, Managing Director, Sandal Farm, Raichur, Karnataka
4. Mrs. Suseela Santhosh, Director, Vishwa Vidyapeeth group of schools, Bengaluru
5. Dr. Meera Uday, Professor, National School of Business, Bengaluru

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