

MILAD-E-SHERIEF MEMORIAL COLLEGE



Accredited by NAAC with 'B' Grade

KAYAMKULAM-690502

KERALA STATE- SOUTH INDIA

(A Minority Community Educational Institution)

Affiliated to the University of Kerala

Web site: www.msmcollege.in, E-mail: msmcollege@rediffmail.com

Fax: 0479-2445594, Tel. No: 0479-2442111

SUPPORTING DOCUMENT FOR 3.2.2

NUMBER OF WORKSHOPS/SEMINARS CONDUCTED ON RESEARCH METHODOLOGY, INTELLECTUAL PROPERTY RIGHTS (IPR) AND ENTREPRENEURSHIP DURING THE YEAR 2020-2021

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3.2.2. Number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship during the year 2020-2021

Research Methodology


1. Name of the activity: DNA Barcoding and Fingerprinting	
Date and time	12.9.2020; 4.00pm to 5.30pm
Platform	Online. Google Meet
Resource person	Dr. Sanil George Scientist E-II, Rajiv Gandhi Centre for Biotechnology (RGCB), Thiruvananthapuram
Number of participants	190
Organizing Unit	Department of Zoology & IQAC M.S.M. College, Kayamkulam
Program Link	https://drive.google.com/file/d/1Rz5mp5K0vzjQM6dydMe-1iR045FGzNdx/view?usp=sharing
Report	<p>In Research methodology the molecular analysis has a major role. In the present scenario all the taxonomic research includes DNA Barcoding for species confirmation. So it is essential to give baseline informations about this molecular technique to UG, PG and Research students. Dr. Sanil George, Scientist E-II, Rajiv Gandhi Centre for Biotechnology (RGCB), Thiruvananthapuram was actively doing research in DNA barcoding and fingerprinting and his area of research including DNA barcoding of amphibians (especially western Ghats frogs), marine mollusks, mammals etc. He is actively involved in biodiversity conservation and environmental monitoring studies and also developed mtDNA database of several mammals for wildlife forensics. Dr. Bindu L. of the Department of Zoology extend a warm welcome to the resource person and all the participants. Dr. B. Girishkumar, Head of the Department of Zoology, MSM College gave the presidential address and Dr. K. Geethakumari, Principal, M.S.M. College, Kayamkulam inaugurated the webinar. The Resource Person explained each and every step involved in PCR, barcoding, finger printing etc. More than 200 participants from various disciplines and also from various universities in and outside the state. The class ends after 2.30 hours including a serious Discussion and queries for 1.30 hours. Dr. Deepa R. Pillai, Assistant Professor, Department of Zoology, MSM College extend vote of thanks and Ms. Fathima H. & Ms. Aparna G. Kumar, PG student representatives extend deep gratitude from student side.</p>

Proof


Milad-E-Sherief Memorial College
 Kayamkulam, Alappuzha, Kerala- 690502
 Affiliated to the University of Kerala
 Website: <https://www.nsmcollege.in>
 Email: nsmcollege@rediffmail.com

Al-Haj P.K. Kunju Sahib Memorial Webinar
Series 2020- 2021
Webinar
Date:- 12/09/2020
Time:- 4.00 pm- 5.30pm

DNA Barcoding and Fingerprinting



Dr. Sanil George
 Scientist E-II
 Rajiv Gandhi Centre for Biotechnology
 Thiruvananthapuram

For Registration
<https://forms.gle/GP7FJLd5iAQ1TbMe9>

PG Department of Zoology
 in association with
IQAC , MSM College , Kayamkulam
<https://chat.whatsapp.com/DrEvsli33fA4r79f5kt58>
<meet.google.com/yza-swcu-hko>

Allele sharing

Locus	MOTHER	CHILD	ALLEGED FATHER
D8S1179	12	12	12, 13
D21S11	20	20	21.2, 21.3
D7S820	9	9	9, 11
CSF1PO	10	10	11, 12
D3S1358	14	17	16, 18
TH01	8	7	8, 9
D13S317	8	8	8, 12
D16S539	11	11	10, 14
D19S433	10	10	10, 14
D2S1338	10	14	10, 14
D18S51	11	11	10, 14
VWA	17	17	16, 18
TPOX	9	9	9, 10
D18S51	11	11	10, 14
D5S818	11	11	10, 13
FGA	20	21	20, 24
Amelogenin (Gender marker)	2	1	1, 2

Alleged Father is the biological father of the child

Webinar on DNA Barcoding and Fingerprinting | Meet - tuf-gfst-cut

Dr.Sanil George is presenting

STEPS.....03


PCR amplification

Goal: To get the required region amplified

Locus
D8S1179
D21S11
D7S820
CSF1PO
D3S1358
TH01
D13S317
D16S539
D2S1338
D19S433
VWA
TPOX
D18S51
D5S818
Amelogenin (Gender marker)

Components of a PCR Reaction

- ✓ Buffer (containing Mg⁺⁺)
- ✓ Template DNA (Targeted amount 1 nanogram (billionth of a gram))
- ✓ 2 Primers that flank the fragment of DNA to be amplified (fluorescent primers)
- ✓ dNTPs
- ✓ Taq DNA Polymerase (or another thermally stable DNA polymerase)



Arsha Ravi and 62 more

2:14 PM

Dr.Sanil George

Jaimsha Rani, V.K

Maya George

Anuraha Rajendran

aparna J

Jeesan saji

simirose Sebastian

Parvathy Ajjikumar


Speaker/Headphone (Realtek High Definition Au...)

Go to Settings to activate Windows.

87

2:14 PM 7/23/2020

Entrepreneurship Development

Title of the program: Popularizing Ornamental Fish Breeding and Culturing Technologies for Entrepreneurship Development (Science Popularization Programme –KSCSTE)	
1.Name of the activity : Webinar on " Exotic and invasive fishes in the freshwaters of Kerala”	
Date and time	31.10.2020 ; 4.00pm to 5.30pm
Platform	Online. Google Meet
Resource person	Dr. C.P.Shaji Conservation Biologist
Number of participants	70
Organising Unit	Department of Zoology & IQAC M.S.M.College, Kayamkulam under the Science Popularisation Programme of KSCSTE
Program Link	https://drive.google.com/file/d/1Ixxg63YwRcHsxEkthWPzTu5Xk4K6x83Wn/view?usp=sharing
Report	<p>As part of the Science Popularisation programme on entrepreneurship development through ornamental fishculture the Department of Zoology in collaboration with the IQAC of the college conducted a webinar on the Diversity and impact of invasion of exotic fishes in the freshwater bodies of our State. Dr. Bindu L. of the Department of Zoology extend a warm welcome to the resource person and all the participants. Dr. B. Girishkumar , Head of the Department of Zoology, MSM College gave the presidential address and Dr. K. Geethakumari, Principal , M.S.M. College, Kayamkulam inaugurated the webinar. Dr. C.P.Shaji, the renowned taxonomist and conservation biologist, has morethan thirty five years of experience in taxonomy and wildlife management. He delivered a very informative and interesting talk on invasive fishes with beautiful slides. Their native countries, reasons of invasion, existence of our indigenous fish stock etc were discussed. Dr. Deepa R. Pillai , Assistant Professor, Department of Zoology, MSM College extend vote of thanks for the college side and Ms. Ruksana Rahiyanath, UG student representative from student side.</p>
Proof	

Title of the program: <i>Popularizing Ornamental Fish Breeding and Culturing Technologies for Entrepreneurship Development (Science Popularization Programme –KSCSTE)</i>	
2. Name of the activity: Webinar on "Plankton- A birds' eye view on the sampling techniques, analysis and identification"	
Date and time	29.05.2021; 7.00pm to 8.30pm
Platform	Online. Google Meet
Resource person	Dr. Vineetha Gopinath CSIR-Senior Research Associate-Scientist's pool Scheme, Central Marine Fisheries Research Institute (CMFRI), Cochin
Number of participants	100
Organising Unit	Department of Zoology & IQAC M.S.M. College, Kayamkulam under the Science Popularisation Programme of KSCSTE
Program Link	https://drive.google.com/file/d/16ZTf4fJs8WIRLysdZOS-dkH01jDuFp7E/view?usp=sharing
Report	The main objective of the program was to create an awareness among the students and entrepreneurs and farmers about the necessity of protecting out aquatic environment. Planktonic organisms are the primary feed of fish larvae and most of the fishes. As part of the entrepreneurship development program, we aim to promote live feed culture for decreasing the feed cost in the ornamental fish sector. Dr. Bindu L. of the Department of Zoology extend a warm welcome to the resource person and all the participants. Dr. B. Girishkumar, Head of the Department of Zoology, MSM College gave the preidential address and Dr. K. Geethakumari, Principal, M.S.M. College, Kayamkulam inaugurated the webinar. Dr Vineetha Gopinath, CSIR- Senior Research Associate-Scientist's pool Scheme, Central Marine Fisheries Research Institute, Cochin, an eminent scientist in aquatic production and management. The conference was very much encouraging and researchers and students from various institutes and both active fish farmers and entrepreneurs were actively interacted with the resource person. She provides a detailed description of all the field of primary production both phyto and zooplankton, benthic organisms, its collecting methods etc. Dr. Deepa R. Pillai extend vote of thanks.

Proof

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Al-Haj P.K. Kunju Sahib Memorial Webinar
Series 2020- 2021
International Webinar
Date:- 29/05/2021
Time:- 7.00 pm- 8.30pm

Plankton- A birds' eye view on the sampling techniques, analysis and identification



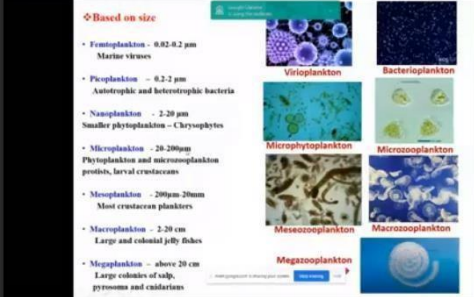
Dr. Vineetha Gopinath
CSIR-Senior Research Associate-Scientist's pool Scheme
Central Marine Fisheries Research Institute
Cochin.

For Registration
<https://forms.gle/QgCF11oP2Mxgdwxu5>

Organized by the Department of Zoology
under the Science Popularization
Programme(KSCSTE) & IQAC M.S.M.College,
Kayamkulam
<https://chat.whatsapp.com/DrEvsI33fA4rf79isk158>
<https://meet.google.com/cui-norp-vhr>



Plankton- A birds' eye view on the sampling techniques, analysis and identification (2021-05-29 at 07:04 GMT-7)



Based on size:

- Femtoplankton - 0.02-0.2 µm
Marine viruses
- Picoplankton - 0.2-2 µm
Autotrophic and heterotrophic bacteria
- Nanoplankton - 2-20 µm
Smaller phytoplankton - Chrysophytes
- Microplankton - 20-200µm
Phytoplankton and microzooplankton protists, larval crustaceans
- Mesoplankton - 200µm-20mm
Most crustacean plankters
- Macroplankton - 2-20 cm
Large and colonial jelly fishes
- Megasplankton - above 20 cm
Large colonies of sulp, pyrosoma and ctenophores

Microscopic images shown: Virioplankton, Bacterioplankton, Microphytoplankton, Microzooplankton, Mesezooplankton, Macrozooplankton, Megaszooplankton.

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