

VIRTUAL WORKSHOP ON DNA BARCODING



1 DAY 1 : 24.08.2020

Time: 11 AM
Session 1
All batches

Technical Session
Batch 1 : 2.00 PM
Maximum Participants: 35

2 DAY 2 : 25.08.2020

Technical Session
Batch 2 : 10:30 AM
Maximum Participants : 35

Technical Session
Batch 3 : 1.30 PM
Maximum Participants : 35

Time: 3.45 PM
Session 2
All batches

ABOUT THE WORKSHOP

DNA barcoding involves sequencing a short fragment of gene as "DNA barcodes". It is an upcoming tool widely in real-world problems in all areas where society interacts with species identification, surveillance, pest and disease control, food production and safety, resource management and conservation.



RESOURCE PERSON

Dr. R. Satishkumar
Professor
Department of Biotechnology
Bharathiar University
Coimbatore 641 046
Tamil Nadu, India.

Technical Session by
Ms. Mahima K
Dept. of Biotechnology,
Bharathiar University

Note

1. Prerequisite Laptop/Desktop for technical session.
2. Batch number and registration link will be mailed to participants prior to the workshop.

ORGANIZER & MODERATOR

Dr. Umamaheshwari S
Department of Microbiology
School of Life Sciences
JSS Academy of Higher Education &
Research, Mysuru



Department of Microbiology School of Life Sciences, Mysuru

“Virtual Workshop on DNA Barcoding”

Day 1

Time: 11 AM

Opening Remarks followed by session

Session 1: "DNA Barcoding – What, How and Why?"
(All Batches)

Technical Session : Max 35 Participants/Batch
Hands-on session in “Application of Bioinformatics tools in DNA Barcoding for Species identification and Phylogeny”

Time : 2 PM - Technical Session : Batch 1

Day 2

Time: 10:00 AM - Technical Session : Batch 2

Time: 1.30 PM - Technical Session : Batch 3

Time: 3.45 PM - Session 2 : “Case Studies in DNA Barcoding”
(All batches)

Valedictory address

Note:

1. Prerequisite of Laptop/Desktop for technical session.
2. Batch number and link will be mailed prior to Workshop
3. Participants should attend Session 1, 2 and allotted technical session & submit assignment to avail E-Certificate

Patrons



Dr Suresh Bhojraj
Pro Chancellor
JSS AHER



Dr Surinder Singh
Vice Chancellor
JSS AHER



Dr Manjunatha B
Registrar
JSS AHER



Dr Kushalappa PA
Director(Academics)
JSS AHER



Dr Balasubramanian S
Director (Research)
JSS AHER



Prof Raveesha K A
Head
Dept. of Water & Health

REPORT ON “VIRTUAL WORKSHOP ON DNA BARCODING”

24th and 25th August 2020

Department of Microbiology, School of Life Sciences,
JSS Academy of Higher Education & Research, Mysuru.

Organizer:



Dr. Umamaheshwari S

Assistant Professor
Department of Microbiology
School of Life Sciences,
Mysuru.

Resource Person:



Dr. R Sathish Kumar

Professor,
Department of Biotechnology
Bharathiar University
Coimbatore 641046
Tamil Nadu



Ms. Mahima K

Research Scholar
Department of Biotechnology
Bharathiar University
Coimbatore 641046
Tamil Nadu

DNA Barcoding is an upcoming tool used to identify or “barcode” the organism to make a distinction from other species for specimen identification and species discovery. To enrich our knowledge on DNA Barcoding tool, a **Virtual Workshop on “DNA Barcoding”** was organized for faculties, research scholars and postgraduate students on 24th and 25th of August 2020 by Department of Microbiology, School of Life Sciences, JSS Academy of Higher Education & Research, Mysuru.

The program started with an opening remarks on 24.08.2020 by Prof Balasubramaniyan, Dean, and Director Research, who specified the importance of the upcoming technology along with traditional taxonomical studies for identifying and differentiating species, and its role in different branches of science. Prof K A Raveesha, Head, School of Life Sciences, JSS AHER, highlighted the need of blending traditional biology with technology. **Dr. R Sathish Kumar**, Resource person, shed the light on DNA Barcoding with his lucid presentation which covered, what is Barcoding? How it works? When can the technique be applied? and also application of DNA barcoding in various fields from agriculture to food adulteration.

In the technical sessions scheduled on 24.08.2020 at 2:30 pm and on 25.08.2020 at 10 AM and 1:30 PM, **Ms. Mahima K**, Research scholar and a team member of Dr. Sathish Kumar lab, gave Hands-on training on bioinformatics tools used in barcoding to all participants in batches.

Totally 85 members participated in the workshop. On 25.08.2020, in second plenary session at 3.45pm, Dr. Sathish Kumar presented “**Cases on DNA Barcoding**” – in which he highlighted the applications of DNA Barcoding in different industry sector and how barcoding tool can monitor environmental species. Dr. Sathish clarified queries raised by the participants in both of his sessions and inspired participants, that DNA Barcoding tool can be extended to different branches of biology i.e., for microbes, animals and to detect adulteration. He insisted that taxonomical identification cannot be ruled out but it should be a prerequisite and suggested that phytochemical profiling with DNA Barcoding plays

an important role in identifying variations among the species, exposed to different environmental stress conditions.

E certificates have been mailed to all participants.

Valedictory session was witnessed by Dr. Balasubramaniyan, Dean and Prof Raveesha K A, Head, Department of Water and Health, JSS AHER.

Dean and Dr. Sathish Kumar were eager in extending DNA barcoding technology for food and nutrition and to pharmacy college, Ooty, JSS AHER.

The program was witnessed by the attendees from various Universities;

School of Life Sciences, JSS AHER, Mysuru, **Karnataka**

School of Life Sciences, JSS AHER, Ooty, **Tamil Nadu**

Yuvarajas College, University of Mysore, Mysuru, **Karnataka**

Sri Siddartha Institute of Medical Sciences and Research Centre, Tumkur, **Karnataka**.

Ravenshaw University, Cuttack, **Odisha**.

Andhra University, Visakhapatnam, **Andhra Pradesh**.

Kurukshetra University, Kurukshetra, **Haryana**

University of Bangalore, Bengaluru, **Karnataka**

Thrissur, Pondicherry University, **Kerala**;

School of Life Sciences, MG University, Kottayam, **Kerala**

Dr.N.G.P Arts and Science College, Coimbatore, **Tamil Nadu**

Few glimpses of the event:

