

# EGRA SARADA SHASHI BHUSAN COLLEGE

ESTD. : 1968

(Reaccredited by NAAC with – ‘B’ Grade with a CGPA of 2.32)

An ISO Certified College for ISO 9001 : 2015 & ISO 14001 : 2015

Post – Egra : Dist – Purba Medinipur (West Bengal) : Pin – 721429.

President : Mr. Tarun Kumar Maity, M.L.A., W.B.

Principal : Dr. Dipak Kumar Tamili.

☎ : 03220-244073, Website - [www.egrassbcollege.ac.in](http://www.egrassbcollege.ac.in) : E-mail – [info@egrassbcollege.ac.in](mailto:info@egrassbcollege.ac.in)



## Three Days National Level Workshop

on

“DNA Barcoding: A newer trend in molecular taxonomy”

**DATE:** 9th April to 11th April, 2019

**ORGANIZED BY:** Department of Zoology, Egra Sarada Shashi Bhusan College

### LIST OF EMINENT RESOURCE PERSONS

1. Dr. Punyasloke Bhadury (IISER-Kolkata)
2. Dr. Anwasha Ghosh

**PRESIDENT:** Dr. Dipak Kumar Tamili Principal, Egra S.S.B. College

### ORGANISING SECRETARIES:

1. Dr. Sudipta Kumar Ghorai Assistant Prof. & Coordinator of P.G., & Department of Zoology, Egra S.S.B. College
2. Mr. Debajyoti Pradhan H.O.D (U.G.), Department of Zoology, Egra S.S.B. College

### ORGANISING MEMBERS:

1. Dr. Sachchidananda Bhattacharya; Dept. of Zoology
2. Mr. Bishnupada Pradhan; Dept. of Zoology
3. Mr. Debasish Maity; Dept. of Zoology
4. Mrs. Sanchita Nayak; Dept. of Zoology
5. Mr. Chandan Nandi; Dept. of Zoology
6. Mr. Santosh Bera; Dept. of Zoology
7. Mr. Santu Paria; Dept. of Zoology
8. Ms. Debopriya Roy Mahapatra; Dept. of Zoology
9. Dr. Nirmal Kumar Hazra; Dept. of Chemistry
10. Dr. Dipak Bisai; Dept. of Geography
11. Mr. Prosenjit Murmu; Dept. of Geography
12. Dr. Bablu Samanta; Dept. of Mathematics
13. Dr. Chayan Ranjit; Dept. of Mathematics
14. Mr. Maniklal Pati; Dept. of Botany
15. Ms. Mamtaj Khatun; Dept. of Botany
16. Dr. Pradip Mondal; Dept. of Physics
17. Dr. Aloy Chand Biswas; (IQAC Co-ordinator)
18. Mr. Gopal Nayak, Dept. of Zoology

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## **ABOUT THE WORKSHOP:**

Unraveling the tangled threads of species identification takes a revolutionary turn! The Department of Zoology at Egra SSB College proudly presents a 3-day national level workshop on "DNA Barcoding: A Newer Trend in Molecular Taxonomy." This intensive program delves into the cutting-edge technique of DNA barcoding, empowering students to crack the code of life and solve taxonomic puzzles that have stumped scientists for centuries. Bidding farewell to the limitations of traditional morphological methods, participants will embark on a thrilling journey into the world of DNA extraction, PCR amplification, and DNA sequencing. Under the guidance of experienced mentors, they'll learn to unlock the secrets hidden within the genetic blueprint of organisms, paving the way for accurate species identification, biodiversity assessment, and even the discovery of cryptic species! This workshop promises to be a game-changer for aspiring taxonomists and ecologists, equipping them with the tools to revolutionize the way we understand and classify the incredible tapestry of life on Earth.

## **AIMS / OBJECTIVES OF THE WORKSHOP**

### **Aims:**

Demystify DNA Barcoding: Introduce and demystify the concept of DNA barcoding as a cutting-edge tool for species identification and taxonomic classification.

Equip students with skills: Equip students with practical skills in DNA barcoding techniques, including DNA extraction, PCR amplification, and DNA sequencing.

Bridge traditional and molecular: Bridge the gap between traditional morphological taxonomy and the power of molecular tools in resolving taxonomic challenges.

Promote conservation and biodiversity: Highlight the role of DNA barcoding in biodiversity assessment, conservation efforts, and the discovery of cryptic species.

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## Objectives:

**Hands-on training:** Provide comprehensive hands-on sessions on basic DNA barcoding techniques, enabling participants to perform the entire workflow independently.

**Theoretical understanding:** Deliver in-depth lectures covering the principles and applications of DNA barcoding in various taxonomic groups and ecological studies.

**Data analysis and interpretation:** Train participants in the analysis and interpretation of DNA barcoding data, including sequence alignment, species identification, and phylogenetic tree construction.

**Critical thinking and problem-solving:** Develop critical thinking and problem-solving skills through workshops and discussions on designing and troubleshooting DNA barcoding experiments.

**Career guidance:** Offer career guidance sessions from experts in the field, outlining professional opportunities for students to pursue in DNA barcoding research and related careers.

**Dissemination and outreach:** Encourage participants to disseminate their acquired knowledge through presentations, reports, and future research projects, promoting awareness and adoption of DNA barcoding techniques.

**NO OF PARTICIPANTS:** 30

## OUTCOME:

The workshop successfully achieved its goal of sensitizing students to the transformative power of DNA barcoding. It empowered participants with valuable knowledge, skills, and connections, paving the way for a future of efficient and accurate species identification, improved biodiversity assessment, and a deeper understanding of the intricate tapestry of life on Earth.

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Fig: “DNA Barcoding: A newer trend in molecular taxonomy