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Five Days International Level Seminar on “Methods in Molecular Ecology”

DATE: 22nd September-26th September, 2019

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

LIST OF EMINENT RESOURCE PERSONS

1. Dr Anita Malhotra (UK)
2. Mr. Vishal Santra

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:

- Dr. Sachchidananda Bhattacharya; Dept. of Zoology
Mr. Bishnupada Pradhan; Dept. of Zoology
Mr. Debasish Maity; Dept. of Zoology
Mrs. Sanchita Nayak; Dept. of Zoology
Mr. Chandan Nandi; Dept. of Zoology
Mr. Santosh Bera; Dept. of Zoology
Mr. Santu Paria; Dept. of Zoology
Ms. Debopriya Roy Mahapatra; Dept. of Zoology
Dr. Nirmal Kumar Hazra; Dept. of Chemistry
Dr. Dipak Bisai; Dept. of Geography
Mr. Prosenjit Murmu; Dept. of Geography
Dr. Bablu Samanta; Dept. of Mathematics
Dr. Chayan Ranjit; Dept. of Mathematics
Mr. Maniklal Pati; Dept. of Botany
Ms. Mamtaj Khatun; Dept. of Botany
Dr. Pradip Mondal; Dept. of Physics
Dr. Aloy Chand Biswas; (IQAC Co-ordinator)
Mr. Gopal Nayak, Dept. of Zoology

ABOUT THE SEMINAR

The Department of Zoology at Egra SSB College is poised to host an international-level workshop on "Methods in Molecular Ecology," igniting a spark in students across the globe. This immersive experience, designed to sensitize participants to the intricacies of basic molecular techniques, promises to be a game-changer for budding ecologists. From the delicate art of DNA isolation and purification to the awe-inspiring power of PCR amplification, students will unravel the secrets hidden within the genetic code of organisms. Under the guidance of renowned experts, they'll master the tools that bridge the gap between ecological observation and genetic understanding, paving the way for groundbreaking research and a deeper appreciation for the intricate dance of life at the molecular level. This workshop transcends geographical boundaries, fostering a spirit of collaboration and knowledge exchange between young minds eager to explore the boundless possibilities of molecular ecology. So, if you're an aspiring ecologist with a thirst for discovery, be sure to join this journey into the microscopic world where DNA whispers tales of evolution, adaptation, and the interconnectedness of all living things.

AIMS / OBJECTIVES OF THE SEMINAR

Aims:

Empower students: To equip students with practical skills in fundamental molecular ecology techniques, enabling them to apply them in research and future studies.

Spark interest: To ignite a passion for molecular ecology by immersing students in the dynamic and fascinating world of genetic analysis.

Bridge knowledge gaps: To bridge the gap between traditional ecological observation and the powerful insights offered by molecular tools.

Promote international collaboration: To foster a platform for knowledge exchange and collaboration among students from diverse backgrounds and countries.

Objectives:

Hands-on training: Deliver comprehensive hands-on sessions on basic molecular techniques such as DNA isolation, purification, and PCR amplification.

Theoretical understanding: Provide in-depth lectures covering the principles and applications of these techniques in various ecological fields.

Data analysis and interpretation: Equip students with skills to analyze and interpret the data generated from their experiments, drawing meaningful conclusions.

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

Career guidance: Offer career guidance sessions from renowned experts in molecular ecology, outlining potential career paths and research opportunities.

Networking and collaboration: Facilitate networking opportunities for students to connect with peers and experts from international institutions, fostering future collaborations.

NO OF PARTICIPANTS: 10

NO OF ABSTRACTS PUBLISHED:

OUTCOME:

Skills and Knowledge Acquisition:

All 10 participating students now possess practical skills in basic molecular ecology techniques like DNA isolation from various tissue samples, DNA purification, and PCR amplification.

Participants gained theoretical understanding of the principles and applications of these techniques in different ecological research areas, including population genetics, conservation biology, and evolutionary studies.

They learned data analysis and interpretation skills, enabling them to effectively analyze and draw conclusions from their own experimental data.

Through workshop sessions and discussions, students developed critical thinking and problem-solving abilities to design and troubleshoot molecular ecology experiments.

Professional Development:

Professor Anita Malhotra and Mr. Vishal Santra's expert guidance provided valuable insights into career opportunities in molecular ecology research and academia.

Students benefited from networking opportunities with peers and experts from different institutions, fostering potential future collaborations.

The workshop experience enhanced participants' resumes with practical skills, theoretical knowledge, and international exposure, making them more competitive for research positions and higher education opportunities.

Impact and Dissemination:

Participants expressed an increased interest in pursuing research projects in molecular ecology, potentially leading to significant contributions to the field.

The workshop is expected to generate interest in molecular ecology amongst other students at Egra SSB College and other institutions, leading to increased participation in future programs.

The knowledge gained will be disseminated through presentations, seminars, and research publications by the participating students, further spreading awareness and interest in molecular ecology throughout the scientific community.

Overall:

The international level workshop on "Methods in Molecular Ecology" successfully achieved its goal of sensitizing students to basic molecular techniques and inspiring them to pursue research in this field. The program equipped participants with valuable skills, knowledge, and connections, contributing to their professional development and the advancement of molecular ecology research.

