

Application Form

1. Full Name (In all Capitals)
2. Date of Birth:
3. Gender :
4. Present Employment details:
5. Full contact address with email:
6. Contact phone number :
7. Academic records (from graduate onwards):
(Degree, University/Institution, Year of Passing, Subjects)
8. Details of publications (3 maximum)
(this information will not influence selection for the course):
9. Statement of purpose: Why do you wish to attend the training?
(250 words maximum)
10. If you are holding a permanent position in an organisation, does your organisation have "no objection" to your participation in the course?
11. Provide name and contact details of two referees:

Paste your
passport
size photo

I hereby declare that the above information provided by me in the application is true. I agree to the terms and conditions of the committee for selection and participation in the training at Zoological Survey of India.

Signature with Date

Application deadline: **February 20, 2018**

Application may be sent to: cdtzi.training@gmail.com

Number of seats: **20**

Course Fee: **There is no course fee however the participants have to arrange for their travel, boarding and lodging.**

For Further Correspondence

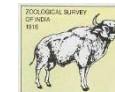
Coordinators

Dr. Vikas Kumar, Scientist-D & Officer-in-charge, Centre for DNA Taxonomy, vikaszsi77@gmail.com

Dr. Shelley Acharya, Scientist-D & Officer-in-charge, Training & Extension Division, acharya.shelley@gmail.com

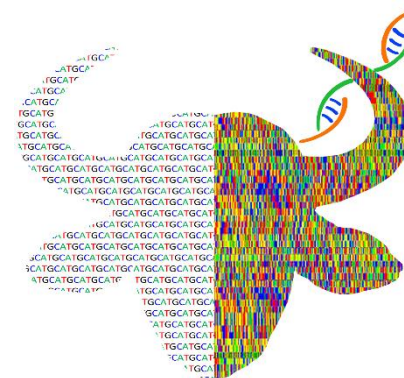


मूलमेव जयते



Zoological Survey of India Ministry of Environment Forest and Climate Change Government of India

Hands on Training on
"DNA Barcoding in Assessment of Faunal Diversity"
March 5-9, 2018



Organized by
Centre for DNA Taxonomy, Molecular Systematics Division
&
Training and Extension Division
Zoological Survey of India, Kolkata

Prelude

DNA barcoding has been widely used as a tool for rapid and accurate species identification in a wide variety of taxa across the globe since 2003. Parallel studies revealed that DNA barcoding data can be effectively used in resolving taxonomic ambiguities, detection of cryptic diversity, invasion biology, description of new species, identification of seized material for better implementation of Wildlife Protection Act, etc. This requires a comprehensive database of DNA barcode sequences library of targeted taxa specially indigenous, endangered and ecologically important biodiversity elements. Zoological Survey of India (ZSI) with sixteen regional centres throughout the country has been rendering taxonomic information on Indian fauna since its inception in 1916. Scientists at ZSI are engaged in exploring, naming, describing, classifying and documenting animals from all over India. ZSI has passionately established the DNA lab at HQ Kolkata and four regional centres at Chennai, Dehradun, Hyderabad and Pune to generate DNA barcodes of Indian faunal elements. The integration of morphology and DNA barcodes data will foster a clear understanding on faunal diversity of India.

However, DNA barcoding studies is still in its infancy in India and DNA barcode data even for the taxa which are important in terms of economy, ecology, conservation, etc is unavailable. One of the foremost reason for this is the lack of expertise in DNA barcoding techniques and data analysis.

This "Hands on Training on DNA Barcoding" will provide an opportunity to learn the basics of DNA barcoding methods and its applications in faunal research. The training include theory, lab procedures, and data analysis.

Applications are invited from early to mid-career researchers in universities, colleges, and research institutes, postdoctoral fellows, Ph.D. Students and government officials in India. Interested candidates may send their application through email (cdtzi.training@gmail.com) in the prescribed format along with a covering letter addressed to the Director, Zoological Survey of India, Prani Vigyan Bhawan, M Block, New Alipore, Kolkata-700 053, West Bengal, India on or before application deadline. Selected candidates will be informed by email.

Chief Guest Secretary, MoEF&CC, New Delhi

Guest of Honour

Additional Secretary, MoEF&CC, New Delhi
Prof. Rup Lal, University of Delhi
Joint Secretary, MoEF&CC, New Delhi
Advisor, MoEF&CC, New Delhi

Convener

Dr. Kailash Chandra, Director, ZSI HQ, Kolkata

Co-Convener

Shri. K. C. Gopi, Additional Director, ZSI HQ, Kolkata

Coordinators

Dr. Vikas Kumar, Scientist D, ZSI HQ, Kolkata
Dr. Shelley Acharya, Scientist D, ZSI HQ, Kolkata

Resource Persons

Dr. Mukesh Thakur, ZSI HQ, Kolkata
Dr. Kaomud Tyagi, ZSI HQ, Kolkata
Dr. Shantanu Kundu, ZSI HQ, Kolkata

In house Speakers

Dr. Archana Bahuguna, NRC, ZSI, Dehradun
Dr. Boni Amin Laskar, FBRC, ZSI, Hyderabad
Dr. K. P. Dinesh, WRC, ZSI, Pune
Dr. Ranjana Bhaskar, SRC, ZSI, Chennai
Dr. Devi Shankar Suman, ZSI HQ Kolkata
Dr. Santosh Kumar, ZSI HQ, Kolkata

Course Contents

- ❖ Basics of DNA barcoding
- ❖ Application of DNA barcoding (Integrated Taxonomy, Metabarcoding, Wildlife Forensics, etc.)
- ❖ Preparation of Reagents/Media for DNA barcoding.
- ❖ Basics of DNA Isolation and PCR
- ❖ Basics of Electrophoresis and DNA Quantification
- ❖ Basics of DNA sequencing
- ❖ Barcode sequence analysis
- ❖ Barcode data management at BOLD & GenBank
- ❖ Species Delimitation Methods
- ❖ Next Generation Sequencing (NGS)