

The course will be a combination of hands-on experiments, lectures, on-line computer workshops and demonstrations.

Hands-on experiments

DNA extraction
Polymerase chain reaction (PCR)
Restriction fragment length polymorphism (RFLP)
SNP detection
Sequencing
Sequence Analysis with Seqscape
Construction of phylogeny tree
GeneMapper analysis of STR data
GeneMapper analysis of SNaPshot data
Real Time PCR for SNP detection and Gene Expression

Bioinformatics

NCBI
Ensembl
Primer3 (primer design)
BLAST (NCBI)
Net Primer

Lectures

Role of DNA polymorphisms (mtDNA, Y Chromosome and Autosomes) in understanding the Human origin, Evolution and Diseases.

Course Director
Prof. K.K. Mishra
Director, An.S.I., Kolkata.

Course Co-ordinators
Dr. B. Francis Kulirani
OIC iSA
Dr.C.R.Satyanarayanan
DD, An.S.I., S.R.C
Dr. A. Chandrasekar
OIC DNA lab, An.S.I., S.R.C

Senior Faculties
Dr. PBSV. Padmanabham
Dr. B.N. Sarkar
Sri. J. Srinath
Dr. A. Chandrasekar

Junior Faculties
Venugopal.P.N
I. Arjun Rao



**International School of Anthropology
(iSA)
Anthropological Survey of India**

“DNA polymorphisms in Anthropological research”

A ten-day refresher course with hands-on experimentation in modern molecular Anthropological techniques and bioinformatics

**To be held:
21st May - 30th May 2012**

**International School of Anthropology
(iSA)
Anthropological Survey of India
Southern Regional Centre
Bogadi 2nd stage North
Mysore--570026
Karnataka.**

Registration

Title: First Name:

Last Name:

Affiliation(Comp/ Dept):

.....

.....

Position:

Address:

.....

..... Pin code:.....

E-mail:

Phone (Daytime):

Fax:

Special Dietary Needs?

Contact/ Enrolment Address

Officer-in-Charge

International School of Anthropology,

Anthropological Survey of India,

Southern Regional Centre,

Bogadi 2nd stage North,

Mysore-570026.

Telephone No. 0821-2512666

E-mail : fkulirani@yahoo.com

oicisa@ansi.gov.in

Workshop Details

When?

Monday 21st May to Wednesday 30th May 2012.

Where?

International School of Anthropology,
Anthropological Survey of India, Southern
Regional Centre, Mysore.

Who can apply?

The course is open to Anthropology Faculty members from Universities and research organisations. Application by women, minorities and persons with disabilities are encouraged.

Course Fee

Rs.12000/-

Hospitality

Selected candidates will be provided twin sharing moderate accommodation, boarding and local transport (accommodation to venue and back) for complete course.

Early Bird Registration

Registrations will be closed Friday 20th April 2012.

Course Limit

The course is limited to 30 participants.

Course Includes

Study material.

DNA Polymorphisms in Anthropological Research

Decoding the DNA of human genome contributes in understanding human evolution, the causation of disease, and the interplay between the environment and heredity in defining the human condition. Information on human DNA polymorphisms reveals aspects of human evolution such as the reconstruction of the history of human populations and peopling processes, the characterization of DNA in extinct humans and the role of adaptive processes in shaping the genetic diversity of our species. Extensive research is required to understand human evolutionary aspects, gene - gene interaction and gene - environment interaction to comprehend human adaptations and etiology of diseases.

In the light of above back ground Anthropological Survey of India started DNA polymorphism studies in 2003. To disseminate the knowledge it is organising a series of Training programmes to all researchers. Anthropological Survey of India craving to share this research expertise with the faculty of Anthropology to encourage, guide their young scholars and to collaborate with An.S.I in the advancement of Anthropological research in India.