

The course will be a combination of hands-on-training, 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 (Mitochondrial & Nuclear) in understanding the Human origin, Evolution and Diseases.

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

Faculty
Dr. P.B.S.V. Padmanabham
Dr. B.N. Sarkar
Sri. J. Sreenath
Dr. A. Chandrasekar

Laboratory Support
Dr. P.N.Venugopal
I. Arjun Rao

Course Coordinators
Dr. C.R.Sathyanarayanan
Dr. A. Chandrasekar



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

“Genomics of Human Variation”

A ten-day refresher course with hands-on-training in modern Molecular Anthropological techniques and Bioinformatics

18th July - 27th July 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:

Institutional affiliation:

.....

.....

Position:

Address:

.....

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

E-mail:

Phone (Daytime):

Fax:

Contact/ Enrolment Address

Officer-in-Charge

International School of Anthropology,
Anthropological Survey of India,

Southern Regional Centre,
Bogadi 2nd stage North,
Mysore-570026.

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For additional details contact:

adimoolamchandrasekar@yahoo.com

Cell: 08892956202/ 09036607782

Workshop Details

When?

July 18th to 27th , 2012.

Where?

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

Who can apply?

The course is open to Anthropology and life
sciences Faculty/ Scientists and Students
from Universities and research organisations.
Application by women, minorities and
persons with disabilities are encouraged.

Course Fee

Rs.12000/- (For student concession contact
course coordinator) make the payment
through Uncrossed DD in favour of DDO
AnSI, SRC, Mysore. or Crossed DD in favour
of PAO, Department of Culture, Kolkata.

Hospitality

Selected candidates will be provided board-
ing and moderate accommodation on twin
sharing basis.

Last date for registration

5th July 2012

Course Limit

The course is limited to 30 participants

Genomics of Human Variation

The technological revolution in
molecular biology opened new vistas for all
life sciences with far reaching consequences
for Human welfare. Since the beginning of
the present century, decoding the human
genome has brought about a paradigm shift
in our understanding of human evolution,
disease and health in terms of genomic
diversity.

The ensuing training programme,
“Genomics of Human Variation” envisages
to introduce the basic techniques of molecular
biology that are being used to map the
genomic diversity in Biological Anthropology
and other life sciences. Lectures and Hands-
on-training, during the programme, focus on
sequencing and dissecting Human
mitochondrial DNA and nuclear genomic
variation for understanding evolution and its
application in medicine.

For the past Six and half-decades,
Anthropological Survey of India has been
engaged in mapping Physical, Biological and
Genomic diversity of the peoples of India with
the state of the art technologies. Anthro-
pological Survey of India intends to disseminate
the Molecular Anthropological techniques by
organising a series of training programmes to
all researchers of life sciences including
Physical Anthropology/Human Biology.