Refresher Course
on
Vistas in Zoological Teaching
Sponsored by
Indian Academy of Sciences, Bangalore (IASc)
Indian National Science Academy, New Delhi (INSA)
The National Academy of Sciences, India, Allahabad
(NASI)
in collaboration with
University of Allahabad, Allahabad

Prof. U. C. Srivastava
Course Director
Department of Zoology
University of Allahabad
Allahabad – 211002
1. A Scientific Report

The Refresher Course on “Vistas in Zoological Teaching” was inaugurated by Dr. V. P. Sharma FNA, in the auditorium of NASI, Allahabad on 30th Jan., 2008. In his inaugural lecture Dr. Sharma informed that small pox has been completely eliminated from the world. Plague, Dracunculosis, Leprosy, Yaws and Onchoceriasis are at the verge of elimination. Polio and Leprosy are at the advanced stages of elimination. Efforts are being made for the elimination of Lymphatic Filariasis, Japanese Encephalitis, Kala Azar, Schistosomiasis and Malaria. He also discussed developments related to public health. Prof. R. Ramamurthi FNA, who was the Guest of Honour spoke on the importance of classical Zoology in Modern Zoological teaching. He emphasized that teachers should give all the basic informations of Zoology to their students.

Prof. C.B.L. Srivastava FNASC, spoke on “General trends and theories in evolution”. He discussed mainly about the different trends of evolution in lower metazoans. Dr. Niraj Kumar giving an evolutionary sketch of man explained the importance of hypothesizing any problem and its solution before testing it experimentally and how this method could be utilized in concept building in Zoology.

On Jan. 31st, 2008, Dr. Vimlesh Chandra spoke on “Analytical appraisal of linkages between traditional and modern concept of evolution”. Dr. Chandra discussed the organic evolution, Lamarkism, Darwinism, theories of somatoplasm and germplasm, Mutation theory; and finally Synthetic theory (Modern concept) at length. He further discussed the factors responsible for evolution including Isolation and Genetic drift.

Prof. U. C. Srivastava FNASC, spoke on the “Systematic division of animal-diversity”, taking into account the division of animals from acellular (Protista) level to the complex mode of radial and bilateral symmetry. Thus every aspect of division and diversity was discussed.

On Feb. 1st, 2008, Dr. Vimlesh Chandra spoke on “Evolution through the Ages”. Origin and evolution of animals in different biological eras were discussed with the participants. On the same day Prof. Krishna Kumar gave illustrative account of “Radiation and its causes, in context of animal kingdom”. A lot of discussion took place during his presentation.

Feb. 2nd, 2008 was the day of experimentation on specimen preparation, preservation, and demonstration of neuronal classes in vertebrate brains; slides were shown by the Course Director Prof. U. C. Srivastava. Live frog Rana tigrina was perfused in M.Sc. Final lab of Department of Zoology to show the preservation / fixation of specimen by Prof. U. C. Srivastava.

On the same day a special lecture on “Antioxidants – a boon for the life of human beings” was delivered by Prof. U. C. Srivastava, to warn the participants about the adverse effects of junk food and present day health problems in life. Importance of antioxidants for eliminating free radicals from the body was discussed.

On the 5th day of this Refresher Course (Sunday Feb. 3rd, 2008) a special lecture was arranged on exotic fishes of Allahabad on the demand of many participants. Dr. Banalata Mohanty spoke on “Ultrastructure of cytoplasmic inclusions”. On the same day “HRP-TMB
reactions” was practically demonstrated. A participant Dr. Subha Srivastava spoke on the events of reaction of HRP-TMB in the Nervous System of Vertebrates.

On Feb. 4th, 2008, Prof. Pratima Gaur spoke at length on “Genome organization: the book of life”. All the participants performed experiments on cytology and cytogenetics as to see Mitochondria by vital stain in buccal epithelium, Barr bodies in female buccal epithelium and Random amplified Polymorphic DNA – Polymerase Chain reaction (PCR) (demonstrated by Prof. R. R. Tiwari). Arbitrary random primers were used to amplify genomic DNA of Sarcophaga by polymerase chain reaction (PCR). Amplification resulted in specific products of different length. The amplified products were demonstrated under UV light on the Gel – documentation system. This experiment was continued on Wednesday Feb. 6th, 2008. After completing this, somatic and reduction divisions in grasshopper testis were observed by all participants. Thus a practical experience of cytological and cytogenetic processes and forms was gained by participants performing all these aforesaid experiments.

On Feb. 7th, 2008, Physiological adaptation and explanation was started with and illustrative lecture by Prof. Y. S. Shouche on “Microbial gut interaction”. The concept was further elaborated by Prof. U. C. Srivastava, who dealt with evolution of receptors in animals: anatomical evolution with physiological adaptation. Dr. Niraj Kumar spoke on “Physico-chemical evolution of nutritional pattern in man” and Anthropometric measurements were performed for all participants and discussed its physico-biochemical role in human health.

On Feb. 8th, 2008 Dr. Abhay Pandey spoke on “Biochemical evolution” and practically demonstrated blood groups. Prof. Anita Gopesh delivered two lectures, one on “Diversity in fishes” and other on “Transition of life from water to land”.

On Feb. 9th, 2008 an interesting lecture was delivered by Prof. K. Muralidhar FNA, on “Educational philosophy of biology: Lessons from studies on Molecular Endocrinology of water buffaloes”. His address was the landmark in understanding the philosophy of Zoological teaching. On the same day Prof. Krishna Kumar delivered detailed lecture on “Reproductive physiology of male and female organs”. A lot of questions were put forward by participants after his lecture and discussed. A special lecture on bioinformatics was delivered by Prof. Krishna Mishra to correlate the physiological processes with the advancements taking place in methodological tools on molecular level; which was an eye opener for the participants on account of the role of bioinformatics in Zoological teaching. In continuation of this view on Feb. 10th, 2008, Prof. Pratima Gaur discussed about Molecular biology and its implications in teaching. Dr. M. Tripathi described the physiology of vector borne diseases and its control.

Feb. 11th, 2008, was devoted to theme “Biome”. Prof. J. S. Singh FNA, spoke at length on “Biodiversity and conservation” with particular reference to animals. Physical and biological parts of global worming were discussed by Prof. S.L. Srivastava. On the demand of participants Dr. Anjana Pandey practically demonstrated DNA probe and slicing on Feb. 12th, 2008. She continued practical demonstration even after valedictory function on Feb. 13th, 2008.

Prof. Santosh Kumar was the chief guest in the valedictory function. He distributed Books and Certificates to the participants. He delivered two lectures, one on “Bali Conference” and other on “Modern trends in Molecular Biology”, before the valedictory function.
<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>Participants</th>
<th>Address</th>
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<tbody>
<tr>
<td>1.</td>
<td>Ms. Arya Jyoti</td>
<td>Dr. Bhim Rao Ambedkar University, Khandari Campus Agra - 282002</td>
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<td>2.</td>
<td>Ms. Kankan Nimisha</td>
<td>C/o- Dr. Shubha Srivastava, Reader, Department of Zoology, Govt. P.G. College, Saidabad - 221508 (U.P)</td>
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<td>3.</td>
<td>Dr. Khanikor Devabrat</td>
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<td>4.</td>
<td>Dr. Nandi Rupa Guha</td>
<td>Asst. Professor, Biotechnology, Sri Satya Sai College, Bhopal, - 462016, (M.P)</td>
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<td>Dr. Prakash Sri</td>
<td>Head, Department Of Zoology, B.S. Metha College, Bharawari, Kaushambi – 212201 (U.P)</td>
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<td>Dr. Rauthan J.V.S</td>
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<td>20.</td>
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<td>1.</td>
<td>Prof. Pratima Gaur</td>
<td>Head, Department of Zoology, University of Allahabad, Allahabad – 211002</td>
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<td>2.</td>
<td>Prof. U. C. Srivastava</td>
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<td>3.</td>
<td>Prof. Krishna Kumar</td>
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<td>Prof. Anita Gopesh</td>
<td>Department of Zoology, University of Allahabad, Allahabad – 211002</td>
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<td>5.</td>
<td>Prof. R. R. Tiwari</td>
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<td>6.</td>
<td>Dr. Banlata Mohanty</td>
<td>Department of Zoology, University of Allahabad, Allahabad – 211002</td>
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<td>7.</td>
<td>Dr. Niraj Kumar</td>
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<td>8.</td>
<td>Dr. Vimlesh Chandra</td>
<td>Retired from Department of Zoology, C.M.P. College, University of Allahabad, Allahabad – 211006</td>
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<td>9.</td>
<td>Dr. Abhay Pandey</td>
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<td>10.</td>
<td>Dr. Anjana Pandey</td>
<td>Department of Biotechnology, University of Allahabad, Allahabad – 211002</td>
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</table>
Professors invited for special lectures

1. Dr. V. P. Sharma FNA – C5/10, Vasant Kunj New Delhi - 110070

2. Prof. R. Ramamurti FNA – 3-9 Vaikuntapuram Tirupati - 517502

3. Prof. Santosh Kumar – Former V. C., H. S. Gaur University, Sagar, 25B, M. P. Road, Bhopal - 462011

4. Prof. Yogesh S. Shouche – National Centre for Cell Sciences. Pune University, GaneshKhind, Pune - 411007

5. Prof. J. S. Singh, FNA – Department of Environmental Science, B. H. U., Varanasi - 221005

6. Prof. Krishna Mishra – Department of Biotechnology, IIIT, Jhalwa, Allahabad - 211011

7. Prof. S. L. Srivastava, FNASc – Coordinator Science communication, NASI, Allahabad - 211002

8. Dr. M. Tripathi – Department of Health, Allahabad - 211002

9. Dr. P. R. Singh – Scientist, Department of Zoology, University of Allahabad - 211002
Programme

(Programme will begin at 10:30 a.m. everyday)

Wednesday, January 30, 2008

(Venue: NASI Auditorium)

Inaugural Session

- Lighting of the lamp
- Welcome Address: Prof. U. C. Srivastava
- Inaugural Remarks: Prof. Pratima Gaur
- About the Chief Guest: Prof. Krishna Kumar
- Address by the Guest of Honour: Prof. R. Ramamurti FNA
- Address by the Chief Guest: Dr. V. P. Sharma FNA on "Elimination of Communicable Diseases with Particular Reference to Malaria in India"
- Felicitation
- Vote of Thanks: Prof. Anita Gopesh

Tea

Theme: Evolutionary Zoology

- Refresher Lecture 1 by Prof. C.B.L. Srivastava FNASc on "General trends and theories in evolution"

Lunch

Introductory Session

- (Concept building in Zoology): Dr. Niraj Kumar
Thursday, January 31, 2008

(Venue: Department of Zoology, A.U.)

Theme: Evolutionary Zoology (Continued)

- Lecture by Dr. Vimlesh Chandra on "Analytical appraisal of linkages between traditional and Modern concept of Evolution".

Interactive Session

Lunch

- Lecture by Prof. U. C. Srivastava FNASc on "Systemic division of Animal diversity".

Interactive Session

Tea

- Visit to Zoological Museum and discussion with Course Director Prof. U. C. Srivastava.

Friday, February 1, 2008

(Venue: Department of Zoology, A.U.)

Theme: Modern trends in Classification

- Lecture by Dr. Vimlesh Chandra on "evolution through the ages".

Interactive Session

Lunch

- Lecture by Prof Krishna Kumar on "Radiation in animal kingdom".

Interactive Session

Tea

- Visit to aqua – bioreserve and Magh Mela 4 p.m. – 9 p.m.
Saturday, February 2, 2008

(Venue: Department of Zoology, A.U.)

- Practicals on specimen preparation and preservation
- Practical demonstration of neuronal classes in vertebrate's brain.

Lunch

- Practicals continued.

Discussion

- Special lecture by Prof U. C. Srivastava on "Antioxidants: a boon for the life of human beings".

Discussion

Tea

Sunday, February 3, 2008

(Venue: Department of Zoology, A.U.)

Theme: Cell Ultrastructure

- Lecture by Dr. Banlata Mohanty on "Ultrastructure of cytoplasmic inclusions".

Interactive Session

Lunch

- Special lecture by Dr. P. R. Singh on "Exotic fishes of Allahabad".

Tea

- Practical demonstrations of HRP – TMB reaction.
Monday, February 4, 2008

(Venue: Department of Zoology, A.U.)

Theme: Cell Biology

- Lecture by Prof. Pratima Gaur Head, Department of Zoology, University of Allahabad on Gene Organization.
- Practical demonstration of Barr body by Methylene blue and Mitochondria by Janus Green B.

Interactive Session

Lunch

- Practical demonstration of RAPD-PCAR (Random Amplified Polymorphic DNA - Polymerase Chain Reaction) by Prof. R. R. Tiwari (Molecular lab of Department of Zoology, University of Allahabad)

Tea

Special Dinner (8:30 PM)

(In the lobby of NASI)

Tuesday, February 5, 2008

- Picnic: visit to Varanasi (120 Km. away from Allahabad) - Only outstation participants.
- Local participants visited Company Bag, Allahabad for Picnic.
Wednesday, February 6, 2008
(Venue: Department of Zoology, A.U.)

- Practical demonstration of RAPD-PCAR continued
  Lunch
- Preparation of chromosomal slides: Study of somatic and reduction division in grasshopper testis.
  Tea
- Practical demonstration for specimen preservation / Fixation as perfusion in frog – *Rana tigrina*

Thursday, February 7, 2008
(Venue: NASI, Auditorium)

**Theme: Physico-biochemical aspects of animals**

- Lecture by Prof. Yogesh S. Shouche, National Centre for cell Sciences, Pune University, Ganeshkhind, Pune – 411007 on “Microbial gut interaction”
  Discussion
  High Tea
- Lecture by Prof. U. C. Srivastava on “Evolution of Receptors in animals: Anatomical evolution with physiological adaptation”
  Discussion
  Lunch
- Lecture by Dr. Niraj Kumar on “Physico-chemical evolution on nutritional pattern in man”
- Demonstration of Anthropometric measurements and BMI interpretation in terms of health index.
  Discussion
  Tea
Friday, February 8, 2008
(Venue: Department of Zoology, A.U.)

- Lecture by Dr. Abhay Pandey, Biochemistry Department, Allahabad University on "Biochemical Evolution"
- Practical demonstration of blood groups. It was mandatory to get the test of blood group of all participants.

Lunch

- Lecture by Prof. Anita Gopesh on "An example of Diversity in fish" and second lecture on "Transition of Life from water to land"

Discussion

Tea

Saturday, February 9, 2008
(Venue: NASI, Auditorium)

- Special Prof. U. S. Srivastava memorial Award Lecture (2007) by Prof. K. Muralidhar FNA on Educational Philosophy of Biology: Lessons from studies on Molecular Endocrinology of water Buffaloes (Bubalus bubalis)

Interactive session

Lunch

- Lecture by Prof. Krishna Mishra, FNASc, IIT Jhalwa, Allahabad on "Bioinformatics in Biology"

Discussion

- Lecture by Prof. Krishna Kumar, Department of Zoology, University of Allahabad on "Reproductive Physiology" — Structure and Physiology of male and female reproductive organs

Group discussion with Course Director and Participants
Sunday, February 10, 2008
(Venue: Department of Zoology, A.U.)

Theme: Molecular Genetics

- Lecture by Prof. Pratima Gaur on "Molecular biology"
  Discussion
  Lunch
- Demonstration of Preparation of karyotype by Prof. R. R. Tiwari
  Tea
- Lecture by Dr. M. Tripathi on "New dimensions of vector born diseases and its control"
  Discussion

Monday, February 11, 2008
(Venue: NASI, Auditorium)

Theme: Biome

- Lecture by Prof. J. S. Singh, FNA on "Biodiversity and Conservation"
  Interactive Session
  Lunch
- Lecture by Prof. S. L. Srivastava, FNASc, Former Prof. and Head, Department of Physics, Allahabad University, Coordinator, Science Communication programme NASI, Allahabad on "Global Warming"
  Discussion
- Film Show on Global Warming
  Tea

Tuesday, February 12, 2008
(Venue: Auditorium, IIIT, Allahabad)

- Lecture by Prof. Santosh Kumar, Former Vice Chancellor, Barkatullah University, Bhopal and H. S. Gaur University Sagar, M. P., on "BALI Conference"
  Discussion
  Lunch
- Practical demonstration on DNA probe and slicing by Dr. Anjana Pandey, Department of Biotechnology, University of Allahabad.
  Tea
Wednesday, February 13, 2008

(Venue: Department of Zoology, A.U.)

Valedictory Function

- Welcome address by Prof. Pratima Gaur
- Presentation of report by Prof. U. C. Srivastava
- Feedback responses by participants
- Address by the Chief Guest Prof. Santosh Kumar, Former Vice Chancellor, Barkatullah University, Bhopal and H. S. Gaur University Sagar, M. P., on “Modern trends in Molecular Biology”
- Distribution of Certificates by the Chief Guest Prof. Santosh Kumar
- Vote of Thanks by Prof. R. R. Tiwari
- Group Photograph followed by High Tea.