



Miranda House

UNIVERSITY OF DELHI

Departmental Annual Report - 3

Departmental Activities: Curriculum and Beyond

Department: Zoology

Year: 2017-18

Department Society and its Office Bearers:

Synapse, Zoology Society created an event-filled environment of learning beyond classrooms. It organized various seminars and workshops, activities also includes arranging Freshers' Welcome, Farewell party and Student Excursions. Zoology Society released Department magazine 'Evolvere' that embodies the potential and the literary skills of our students.

Office Bearers for 2017 -18:

President	Vice President	General Secretary	Treasurer	Editors	Co-Editors	Event Manager
Avni Gupta	Palvi Gotra	Vartika Srivastava	Bhavya Sirohi	Shruti Acharya and Arshia Bhat.	Shriti Kumar, Noor and Anubhuti Krishna	Nishtha and Shazia Akhtar

Staff Advisors:

Dr. Monika Sharma



Miranda House UNIVERSITY OF DELHI

Part B.1

Seminars/conferences/workshops conducted by the Department

DBT- Star sponsored workshop on **Understanding our Environment: Human Interference** conducted by Department of Zoology under the aegis of D. S. Kothari Centre for Research and Innovation in Science Education (DSKC), Miranda House on August 18, 2017. The workshop was well attended by over forty students across various disciplines and universities in and around Delhi. This workshop aimed to introduce and motivate students about the stressed environment and how interaction among different organisms of various strata impact human health. The focus of the workshop students was on developing an understanding of the contemporary research on xenobiotic degradation and how they can contribute to Swachh and Swasth Bharat Abhiyan. The programme was coordinated by Dr. Rekha Kumari and Dr. Simran Jit from the Department. Participants-40.

Department of Zoology
Miranda House
Under the aegis of
DBT STAR COLLEGE SCHEME
Organizes
Under Graduate Pre-Conference Workshop
**Understanding our Environment:
Human Interference**
AUGUST 18, 2017
INSIRC International Conference 2017

This workshop aims to introduce and motivate students about the stressed environment and how interaction among different organisms of various strata impact human health. After this workshop students will have a better understanding of the contemporary research on xenobiotic degradation and how they can contribute to Swachh and Swasth Bharat Abhiyan.

REGISTRATION DEADLINE: 14 August, 2017
REGISTRATION FEE: Rs. 200

SCIENTIFIC PROGRAM:

10:30 am-10:20 am	Keynote Address Prof. H.C. Agarwal, INSIRC Environmental Toxicology	
10:30 am-11:15 am	Prof. Tanu Jindal, Amity Institute of Environmental Sciences Xenobiotic Interactions	
11:15 am-12:00 noon	Dr. Sanjukta Subudhi, TERI Emerging Pollution Issues and it's Associated Health Risk in Urban Environment	
12:00 noon-12:45 pm	Dr. Chirashree Ghosh, Dept. of Environmental Studies	

Workshop: Environmental Health and its Monitoring Strategies
Dr. Chirashree Ghosh
Environmental Pollution Laboratory, Dept. of Environmental Studies
1:30 pm-3:30 pm

TECHNICAL SESSION I
Hands on Practical Session:
 Practical 1: Indexing Water Quality
 Practical 2: Indexing Soil Quality
 Practical 3: Technical Demonstration of Aerosol Monitoring

TECHNICAL SESSION II
 Screening of Documentary

Coordinators: Dr. Rekha Kumari, Dr. Simran Jit, Department of Zoology, MH
E-mail ID: medbio.miranda@gmail.com
FORMS ARE AVAILABLE AT <http://www.mirandahouse.ac.in/>

DBT Star College Scheme
D.S. Kothari Centre for Research and Innovation in Science Education
Miranda House, University of Delhi

Workshop on
"Immunoinformatics for Rational Vaccine Design"

Venue: Room No 145/248, Miranda House
Dates: 18to 22 September, 2017
Time: 11 am to 5 pm

TOPICS	SPEAKERS
Immunoinformatics and vaccine design:	Prof. GPS Raghava Indraprastha Institute of Information Technology, (IIT) Delhi
Epitope based vaccine design	Dr. Kaustuv Nayak ICGEB
MHC based vaccination approach	Dr. Gurvinder Kaur Dr B.R. Ambedkar Institute Rotary Cancer Hospital, AIIMS, New Delhi
Protein-protein interactions	Dr. Anshu Bhardwaj, IMTECH, Chandigarh
Molecular Docking	Dr. Chinmayee Choudhury IMTECH, Chandigarh

Registration Fee:
MH students: Rs 100/-
Outside students: Rs 500/-
Academia with lunch: Rs 1000/-

Workshop Coordinators
Dr. Sadhna Sharma : sadhna.sharma@mirandahouse.ac.in
Dr. Monika Sharma : monika.sharma@mirandahouse.ac.in

DBT Star College Project Coordinator
Dr. Sadhna Sharma
Department of Zoology, Miranda House

Chairperson
Dr. Pratibha Jolly
Principal, Miranda House
PI, DSKC

Workshop on **"Immunoinformatics for Rational Vaccine Design"** was organised under DBT star College Scheme for students from 18th to 22nd September 2017. It was five days workshop included lectures on Vaccine Designing and Molecular Docking through eminent speakers from AIIMS, IGIB and IIT Delhi, also IMTECH, Chandigarh.

Participants-30.



Miranda House UNIVERSITY OF DELHI

A seven day *National Symposium cum Faculty Development Programme on “Genome Editing Tools”* was conducted on January 15-22, 2018. The primary objective of this symposium was to gain insight on the earlier and latest genome editing tools to understand gene functionality. The lectures from experts in the field, extensive review of literature by participants and demonstrations by suppliers provided the right exposure to biotechnology and genetic engineering. This Symposium cum Faculty Development Programme focused on the recent advances in an area that is highly relevant in the contemporary genomic era. It seeks to provide a platform to teachers and doctoral students to enhance and update their concepts of DNA manipulation by modern molecular tools.

Participants-55.

<p>Registration form</p> <p>Name: _____</p> <p>MF: _____</p> <p>Institute: _____</p> <p>Mailing Address: _____</p> <p>_____</p> <p>Phone/Mobile: _____</p> <p>Email ID: _____</p> <p>Accommodation required: Yes <input type="checkbox"/> No <input type="checkbox"/></p> <p>Registration Type: Research <input type="checkbox"/> scholar <input type="checkbox"/> Faculty <input type="checkbox"/></p> <p>I am enclosing a D/D for Rs. 1500 <input type="checkbox"/> Rs. 2500 <input type="checkbox"/></p> <p>D/D No.: _____ Date: _____</p> <p>Drawn on : _____</p> <p>Signature _____</p>	<p>Organizing Committee</p> <p>Patrons Prof. Y. K. Tyagi Prof. P. Khurana Vice Chancellor Chairperson University of Delhi Governing Body Miranda House</p> <p>Convener Dr. Sadhna Sharma Department of Zoology, Miranda House</p> <p>Organizing Secretary Dr. Monika Sharma Department of Zoology, Miranda House</p> <p>Members Dr. Nisha Vashishta Dr. Rekha Kumari Dr. Jyoti Arora Dr. Simranjit Dr. Pooja Suman Dr. Deepak Yadav Ms. Shweta Yadav Ms. Yasha Yadav</p> <p>Advisory Committee</p>	<p>MIRANDA HOUSE University of Delhi</p>  <p>National Symposium cum Faculty Development Programme on Genome Editing : Tools and Applications (15-01-2018 to 20-01-2018)</p> 
<p>The registration fee is to be paid by demand draft only, drawn in favor of "The Principal, Miranda House"</p> <p>Registration form and DD to be sent to : Dr. Sadhna Sharma Department of Zoology Miranda House, University of Delhi</p>	<p>Dr. Pratibha Jolly, Principal, Miranda House Prof. Y. Singh, Department of Zoology, DU Prof. K. Natrajan, ACBR, DU Dr. Durai Sendar, IIT Delhi</p>	<p>Organized By Department of Zoology, Miranda House and D S Kothari Centre for Research and Innovation in Science Education Miranda House University of Delhi</p>

Part B.2

Extension Activities organized

Department also conducted a Bridge Course on Laboratory Instrumentation: Principle, Usage and Applications for students of B.Sc. (H) Zoology Part I from 16-21 August 2017. The Course has been designed to provide training on basic equipment and techniques used.

Participants-46




BRIDGE COURSE MANUAL
LABORATORY INSTRUMENTATION:
PRINCIPLE, USAGE AND APPLICATIONS
A course on basic lab instruments and techniques
For
B.Sc. (H) Zoology Part I Students

16 – 21 August, 2017

Organized by
D.S. KOTHARI CENTRE FOR RESEARCH AND INNOVATION IN
SCIENCE EDUCATION
&
DEPARTMENT OF ZOOLOGY
MIRANDA HOUSE

Course Co-ordinator
Dr. Monika Sharma

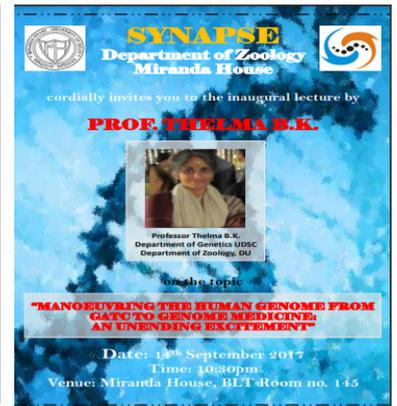
Convener
Dr. Pratibha Jolly
PI, DSKC



Miranda House UNIVERSITY OF DELHI

An inaugural lecture on “*Maneuvering the human genome from GATC to genome medicine an unending excitement*” was organised as a part of Zoology Society “Synapse” on September 14, 2017 by Prof. B.K. Thelma from Department of Genetics, University of Delhi.

Participants-113.



An educational trip to Aravali Biodiversity Park

An educational trip to Aravali Biodiversity Park was organized on November 6, 2017. The objective was to observe the moist deciduous forest community in general, and a Fernary, an Orchids Conservatory, a Butterfly Conservatory along with a herbal garden in particular.

Participants-77





Miranda House

UNIVERSITY OF DELHI

THE MENTORSHIP PROGRAM BY INSPIRE

In December 2017, hands on workshop was conducted in the Department of Zoology by INSPIRE. Various schools from all over India had participated in the workshop. Practical experiences were given to students interested in pursuing science in future. Practical work included slide preparation of different animal tissues, gram staining, DNA isolation and demonstration of enzymatic activity of SDH. There were total 10 students from various schools.



TALK BY PROFESSOR JERRY COYNE AT INSA



On January 4, 2018 students of the zoology department went for a lecture by biologist **JERRY COYNE** on “**Why evolution is true**” at INSA. Professor Jerry is an American biologist currently teaching at the **University of Chicago**. He is well known for his work on speciation and is the author of the text *speciation* and best-selling non fiction book *why evolution is true*.

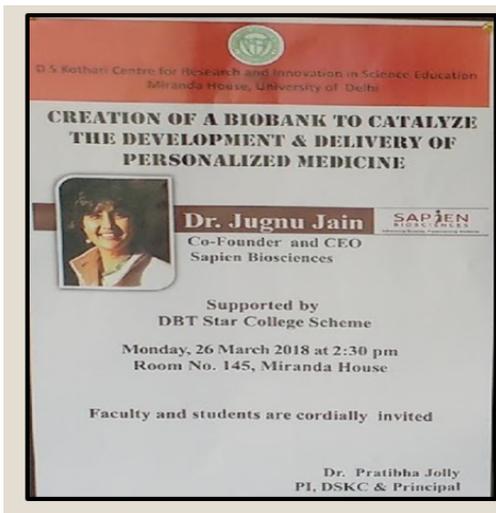
Participants-31



Miranda House UNIVERSITY OF DELHI

Campus Bird Count:

On February 19, 2018 the Department of Zoology organised **Campus Bird Count** in association with the Great Backyard Bird Count. 21 different species of birds were listed during a walk of about 2 hours, in the college premises. The walk **was** followed by a lecture by the 2 experts who conducted the walk. Participants-30.



A TALK BY Dr. JUGNU JAIN

On 26th march, 2018, the students attended a talk on **Creation Of A Biobank To Catalyze The Development And Delivery Of Personalized Medicine** by Dr. Jugnu Jain at room no- 145. Dr. Jugnu Jain is the Co-Founder and CEO of Sapien Biosciences.

Sapien Biosciences is India's largest high quality biorepository that integrates ethically obtained human samples with associated medical, pathological and diagnostic data.

Participants-60

There was a field visit to Asola Bhatti Wildlife Sanctuary. Students from the III and II year Zoology Hons course were taken to this visit for the study of Behavioral pattern of wildlife in the sanctuary on 4th April 2018.

Participants-67.

FIELD VISIT TO ASOLA BHATTI WILDLIFE SANCTUARY





Miranda House UNIVERSITY OF DELHI

Part B.3

Any other event organized as part of students' activities (not listed above)

Zoological society “Synapse” celebrated its annual festival Impulse on 26-27 February 2018, the theme was *Wild life conservation*. During the festival a Bird walk in our college campus was organized under the guidance of Delhi based naturalists specializing in nature trails. During this bird walk 21 resident bird species were spotted in our college. This was followed by a very interesting lecture *Birds and Beasts: a talk on bird conservation, reptiles and amphibians* by Kaustabh Srikant, a programme officer –Eco trails WWF, India. Another important feature of the festival was A Poly Cystic Ovarian Syndrome (PCOS) awareness camp where Dr. Manika Khanna a renowned gynecologist from INTAS Pharmaceuticals created awareness about PCOS among young students. This was followed by a panel discussion themed on *A Road Less Taken* with alumni of the Department of Zoology. There were 55 students.

IMPULSE
SYNAPSE- The Zoological Society of Miranda House presents

BIRDS AND BEASTS
A talk on Bird Conservation, Reptiles and Amphibians

BY **KAUSTABH SRIKANTH**

A Programme Officer- Eco trails at WWF-India, New Delhi.

Editor and Wildlife photographer with Wildlife Welfare Association (WWA)

26 February 2018
11:15 am
Department of Zoology

Prati Gotra (Vice President)
9873475442

SYNAPSE
Zoological Society, Miranda House presents

IMPULSE'18
26 February, 2018

Formal Events:

Movie Screening	9:15 AM
Talk on PCOS by Dr. Manika Khanna	10:00 AM
Talk on bird conservation by Kaustabh Srikant	11:15 AM
Panel on: A Road Less Taken...	12:30 PM

VENUE: Department of Zoology

Further details: www.facebook.com/synapse.mh

Arni Gupta (President) 8130134955 | Prati Gotra (Vice President) 9873475442 | Varsha Srivastava (General Secretary) 9873473750

IMPULSE
SYNAPSE, the Zoological Society, Miranda House presents

A panel discussion by our alumnae

A ROAD LESS TAKEN...

ZARA HAROON
Producer to major media houses of India and the US

MEGHA MITTAL
Image Consultant and a soft skills trainer

PRATIMA SINGH
Officer trainee in Ministry of Communications

ANSHIKA GARG
National Institute of Fashion Technology, Master of Design

26 February, 2018
9:30 am
Department of Zoology

Arni Gupta (President) 8130134955 | Prati Gotra (Vice President) 9873475442



Miranda House UNIVERSITY OF DELHI

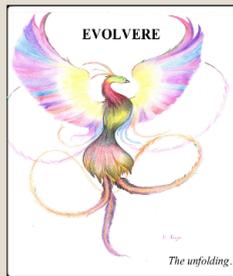
The Department hosted the **Fresher's Party** for the incoming batch on 23th August of 2017-18 at room no-248. The event saw huge participation. There were 92 students.



LAUNCH OF THE DEPARTMENT MAGAZINE AND T-SHIRTS



EVOLVERE IS THE ANNUAL MAGAZINE OF THE DEPARTMENT OF ZOOLOGY.



On 13th April 2018, room no- 248, Department Students organized Farewell for their seniors and event also included launch of Department Magazine and T-Shirts. There were 86 students.





Miranda House

UNIVERSITY OF DELHI
