

# **Departmental Annual Report - 3**

**Departmental Activities: Curriculum and Beyond** 

**Department: Botany** 

Year: 2018-2019

#### **Department Society and its Office Bearers:**

Botanical Society "Antheia"

1. President: Kareena Singh; B. Sc. (H) Botany III year

2. General Secretary: Varsha Singh Solanki; B. Sc. (H) Botany II year

3. CR 3rd Year: Arushi Chib; B. Sc. (H) Botany III year

4. CR 2nd Year: Poonam; B. Sc. (H) Botany II year

5. CR 1st Year: Diksha Patel; B. Sc. (H) Botany I year

**Staff Advisors:** Dr. Neetu Chaudhary and Dr. Rajeshwari (Dr. Somdutta Sinha Roy From 1 January 2019-31 March 2019)

#### Part B.1

### Seminars/conferences/workshops conducted by the Department

Colloquium on Hydrological Modelling for the Ecological Restoration of Loktak Lake, Northeast India by Ms. Khwairakpam Eliza, Guest Assistant Professor in Environmental Studies, Miranda House.

Date: 02 August 2018

Dr. Madhu Bajaj was the Coordinator of the Colloquium.

No. of participants: 70 (approx.)

## Colloquium on

Hydrological Modeling For The Ecological Restoration of Loktak Lake, Northeast India

Speaker: Ms. Khwairakpam Eliza, Guest Lecturer (Miranda House)

Organized by :Department of Botany Venue :Room No. 136

**Date & Time:** August 2, 2018 (Thursday) 2.05-4.05pm



Colloquium on Characterization of the Activity of the Anther-Specific Promoter of Rice by Dr. Reema Mishra, Assistant Professor, Gargi College, University of Delhi, Delhi, and an alumna of the college.

Date: 09 August 2018

Dr. Madhu Bajaj was the Coordinator of the Colloquium.

No. of participants: 70 (approx.)

**Colloquium on :**Characterization of the activity of anther-specific promoter of Rice

Speaker: Dr. Reema Mishra
Assistant Professor, Gargi College
Organized by :Department of Botany
Venue :Room No. 136

Date & Time: 9 August 2018 2:05 -4:05pm

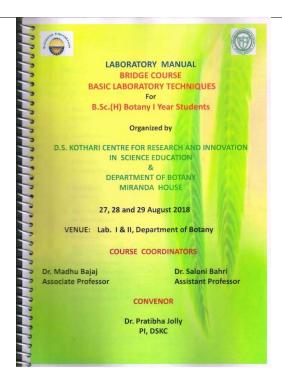
Bridge Course on Basic Laboratory Techniques organized by Department of Botany under the aegis of DS Kothari Centre for Research and Innovation in Science Education, Miranda House, University of Delhi.

Date: For B.Sc. (Honours) Botany I Year students, 27-29 August 2018.

Dr. Madhu Bajaj and Dr. Saloni Bahri were the Coordinators of the Bridge Course.

No. of participants: 28 **Summary Report** 

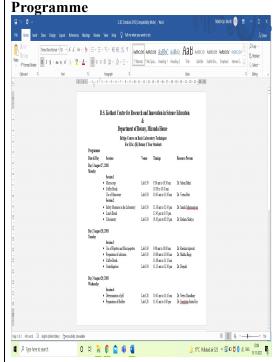
The Department of Botany conducted a Bridge Course on 'Basic Laboratory Techniques' for students of B.Sc. Honours Botany I Year under the aegis of D.S. Kothari Centre for Research and Innovation in Science Education, Miranda House. The objectives of the Bridge Course were to: (i) highlight the importance of safety measures to be followed while working in the laboratory, (ii) familiarize the students with the use of microscopes and handling of glassware, (iii) teach the working of instruments such as



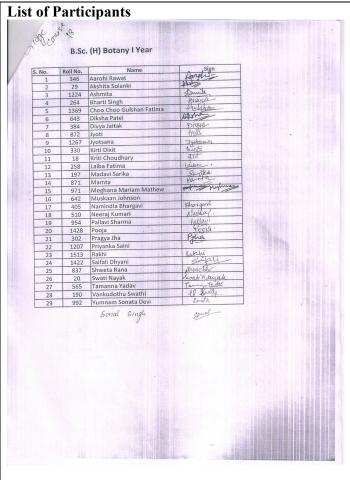


centrifuge, vortex mixer and colorimeter, and (iv) explain the use of micropipettes and preparation of solutions. The Course aimed at augmenting the students' basic knowledge about scientific instruments and laboratory techniques. A laboratory manual was also prepared for the Bridge Course covering all the topics in detail and given to all the students along with a Certificate of Participation.

**Duration of the Course: 10 Hours** 









**Coordinators** 





## **Contents Page of Manual**

Colloquium on Small RNAs: Master Regulators (?) and Beyond by Dr. Sandip Das, Associate Professor, Department of Botany, University of Delhi, Delhi.

Date: 30 August 2018

Dr. Madhu Bajaj was the Coordinator of the Colloquium.

No. of participants: 70 (approx.)

# COLLOQUIUM ON

"SMALL RNAS: MASTER REGULATOR (?)
AND BEYOND"

Speaker - Dr. Sandip Das

Organised by - Antheia, Department of Botany

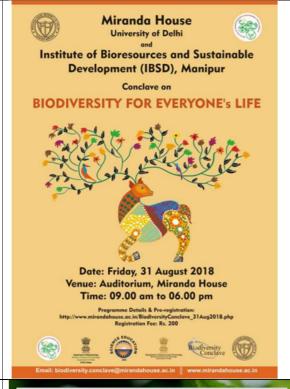
Date- 30th Aug 2018 Time- 2pm Venue- Room 136



Biodiversity Conclave: Biodiversity for Everyone's Life, Miranda House, University of Delhi, Delhi, and Institute of Bioresources and Sustainable Development (IBSD), Manipur.

Date: 31 August 2018

Dr. Saloni Bahri was a Co-Convener and Dr. Janaki Subramanyan was a Member, Organizing Committee.



Colloquium on Innovation in Medicinal Plant Research and Human Welfare by Professor Veena Agrawal, Department of Botany, University of Delhi, Delhi.

Date: 06 September 2018

Dr. Saloni Bahri was the Coordinator of the Colloquium.





Bridge Course on Basic Laboratory Techniques organized by Department of Botany under the aegis of DS Kothari Centre for Research and Innovation in Science Education, Miranda House, University of Delhi.

Date: For B.Sc. Life Science I Year students, 06 and 07 September 2018.

Dr. Madhu Bajaj and Dr. Saloni Bahri were the Coordinators of the Bridge Course.

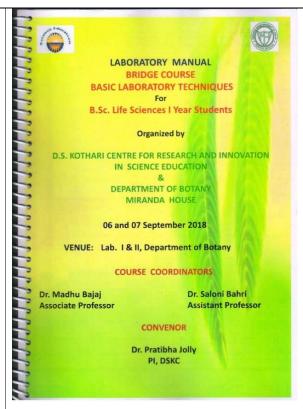
No. of participants: 32

## **Summary Report**

The Department of Botany conducted a Bridge Course on 'Basic Laboratory Techniques' for students of B.Sc. Life Science I Year under the aegis of D.S. Kothari Centre for Research and Innovation in Science Education, Miranda House. The objectives of the Bridge Course were to: (i) highlight the importance of safety measures to be followed while working in the laboratory, (ii) familiarize the students with the use of microscopes and handling of glassware, (iii) teach the working of instruments such as centrifuge, vortex mixer and colorimeter, and (iv) explain the use of micropipettes and preparation of solutions. The Course aimed at augmenting the students' basic knowledge about scientific instruments and laboratory techniques. A laboratory manual was also prepared for the Bridge Course covering all the topics in detail and given to all the students along with a Certificate of Participation.

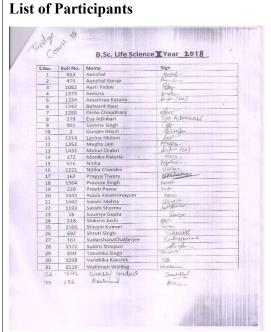
**Duration of the Course: 10 Hours** 

**Programme** 











# Coordinators Contents Page of Manual



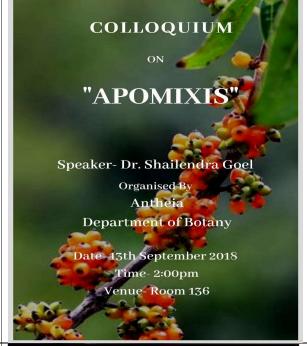


Colloquium on Apomixis by Professor Shailendra Goel, Department of Botany, University of Delhi, Delhi.

Date: 13 September 2018

Dr. Saloni Bahri was the Coordinator of the Colloquium.

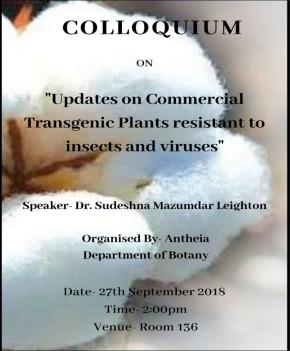
No. of participants: 70 (approx.)



Colloquium on Updates on Commercial Transgenic Plants Resistant to Insects and Viruses by Professor Sudeshna Mazumdar Leighton, Department of Botany, University of Delhi, Delhi, and an alumna of the college.

Date: 27 September 2018

Dr. Saloni Bahri was the Coordinator of the Colloquium.





Colloquium on Sea Buckthorn: an Emerging Model Organism to Study Evolution of Dioecy by Professor Rajesh Tandon, Department of Botany, University of Delhi, Delhi.

Date: 11 October 2018

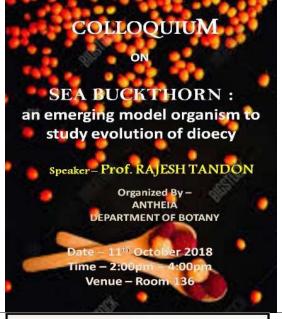
Dr. Saloni Bahri was the Coordinator of the Colloquium.

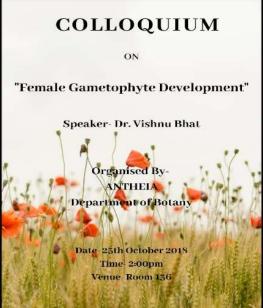
No. of participants: 70 (approx.)

Colloquium on Female Gametophyte Development by Professor Vishnu Bhat, Department of Botany, University of Delhi, Delhi.

Date: 25 October 2018

Dr. Saloni Bahri was the Coordinator of the Colloquium.







Workshop on Biofertilizers for B.Sc. (Honours) Zoology I Year students, DBT Star College Scheme, Department of Botany, Miranda House, University of Delhi, Delhi.

Date: 02 November 2018

Dr. Janaki Subramanyan and Dr. Saloni Bahri were the Coordinators of the Workshop.

No. of participants: 19

**DBT Star College Scheme** 

## A Workshop on Biofertilizers

Date: 02 November 2018 Time: 8.30 a.m. to 4.00 p.m. Venue: Room No. 128, Department of Botany

Lecture on

Arbuscular Mycorrhizae in Sustainable Agriculture

by Professor Rupam Kapoor Department of Botany University of Delhi





Followed by Hands-on Training

Coordinators: Dr Janaki Subramanyan, Dr Saloni Bahri

DBT Star College Project Co-ordinator Dr Sadhna Sharma

Chairperson Dr Pratibha Jolly, Principal, Miranda House

DST INSPIRE Scholars Science Conclave 2019: Research on the Frontiers, Department of Technology, Government of India, and DS Kothari Centre for Research and Innovation in Science Education, Miranda House, University of Delhi, Delhi.

Date: 16-18 January 2019

Dr. Janaki Subramanyan was a Co-Convenor; Dr. Madhu Bajaj and Dr. Saloni Bahri were Members, Organizing Committee.



D S Kothari Centre for Research and Innovation in Science Education Miranda House Presents

DST INSPIRE Scholars



Science Conclave 2019: Research on the Frontiers Wednesday 16 January to Friday 18 January 20 Venue: Auditorium, Miranda House Time: 9.00 am to 5.00 pm

Preamble
These are exciting times. India today is a front ranking country in the field of research in basic science. Indian scientists are respected internationally and are making major contributions to the frontiers of science, participating as equal partners in several multi-nation international projects. The Government recognizes that science is the engine that will drive growth and development, especially in the emerging scenario of competing economies. On one hand the focus is on applying S&T to address national needs; the grand challenges facing communities; and meeting the goals of sustainable development. On the other hand, the thrust is also on pursuit of knowledge and but saky research on the frontiers that will lead to greater understanding and create transformative technologies of the future.

DST INSPIRE Scholars Science Conclave 2019: Research on the Frontiers

DST INSPIRE Scholars Science Conclave 2019: Research on the Fronuers

This three day programme has been carefully crafted to give an opportunity to young students to internat with scientists who are with great passion and dedication working in areas of contemporary interest and are reputed for path breaking research. It includes expositions on areas of research that have been awarded the Nobel Prize in recent times. Path Preaking research presented will include areas of contemporary interest such as Laser Physics, Soft Matter, Nano Bioscience, Human Genetics, Drug Discovery, Medical Imaging, Caneer Therapy, Neuroscience, Cognitive Science, Artificial Intelligence, Machine Learning, Quantum Computers. The touchstone of the programme will be talks by the DST Sceretary, Principal Scientific Advisor to Govt. of India, Secretary DBT, Director ITI Delhi and Director IGIB. The talks will urnavel the complete beauty of the process of science, scientific research, knowledge generation and product development, emphasizing the breaking of boundaries between disciplines, multidisciplinary synergy and intersectionality of ideas.

Sufficient time has been allocated for interaction after each talk to promote deep thinking. The interaction with the distinguished speakers will give not just a panoramic view of the changing landscape of Indian Science but also trigger greater interest and spirit of enquiry for the



20th Manasi Ram Memorial Lecture Plant Sciences and Changing Climatic Conditions by Professor Paramjit Khurana, Head, Department of Plant Molecular Biology, University of Delhi South Campus, New Delhi, organized by Department of Botany, Miranda House, University of Delhi.

Date: 11 February 2019

Dr. Saloni Bahri was the Coordinator of the Lecture.

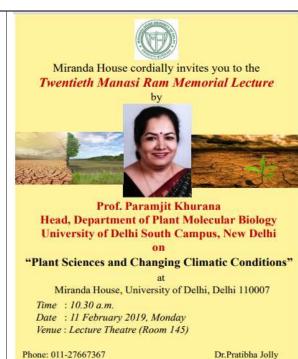
No. of participants: 110 (approx.)

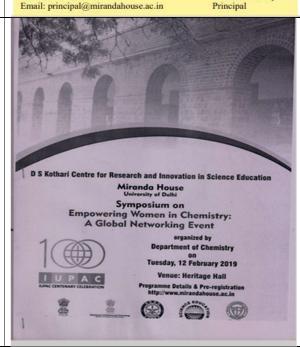
Symposium on Empowering Women in Chemistry: A Global Networking Event, IUPAC Centenary Celebration, DS Kothari Centre for Research and Innovation in Science Education, Miranda House, University of Delhi, Delhi.

Date: 12 February 2019

Dr. Janaki Subramanyan and Dr. Saloni Bahri were Members, Organizing Committee.

No. of participants: 174





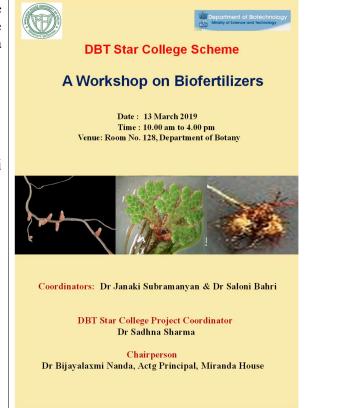


Workshop on Biofertilizers for B.Sc. Life Science II Year students, DBT Star College Scheme, Department of Botany, Miranda House, University of Delhi, Delhi.

Date: 13 March 2019

Dr. Janaki Subramanyan and Dr. Saloni Bahri were the Coordinators of the Workshop.

No. of participants: 7





### Part B.3

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

Botanical Society Inaugural Lecture on Conquering the Kingdom of Ice--Opportunities for Participation in Antarctic Programs by Dr. H. N. Dutta, Director (Research & Development), Roorkee Engineering & Management Technology Institute, Shamli.

Date: 20 September 2018

