

Report of Botany Department (2018-19)



Mehr Chand Mahajan
DAV College for Women
Sector-36, Chandigarh

www.mcmdavcwchd.edu.in

Department Name: **Botany**

Session: **2018-19**

Names of Programmes /Courses /offered: **B.Sc. Medical**

Faculty Publications/Awards/Achievements/Activities:

FacultyActivity1: Faculty Development Programme

1. Workshop Series on Fun with Science @ Foldscope, Sponsored by Foldscope Project, Department of Biotechnology (DBT), Government of India on 11.8.2018. Organized by Department of Food Science, MCM DAV College, Chandigarh. **(Dr. Gunjan Sud, Dr. Jasleen Kaur)**
2. Participated in Maggi @Kitchen Journeys, organized by Department of Food Science, MCM DAV College, Chandigarh on 29.1.2019. **(Dr. Gunjan Sud, Dr. Jasleen Kaur)**
3. Participated in one day workshop, conducted by IQAC that depicts the 'Filling up of faculty and students data in the google sheets' on 13.03.2019 in MCM DAV College, Chandigarh. **(Dr. Gunjan Sud and Dr. Purnima Bhandari)**

Faculty Activity 2 : OUTREACH ACTIVITIES CONDUCTED

1. **Activity:** Lecture delivered on "World of the Medicinal Herbs" at Govt. Senior Secondary School, Maloya on 4.2.2019 by **Dr. Purnima Bhandari**, as per government initiative under the adolescent program.
2. **Activity:** Lecture delivered on "Child Sex Abuse" at Govt. Senior Secondary School, Maloya on 6.2.2019 by **Dr. Purnima Bhandari**, as per government initiative under the adolescent program.
3. **Activity:** Weeding and cleaning of Botanical Garden and Rishi Vatika on 2.8.2018 by B.Sc. 1st and 2nd year students
4. **Activity:** Plantation of saplings on 4.8.2018. Students of B. Sc. 3rd year planted saplings of medicinal plants such as *Catharanthus rosea* (L.) G. Don

(Sadabahar), *Cymbopogon citrates* (DC.) Stapf., *Sphagneticola calendulacea* (L.) Pruski etc. in Rishi Vatika.

5. **Activity:** Knowing your plants on 15.9.2018. On the occasion of Shramdan Divas students of B.Sc 3rd year medical contributed by placing plates mentioning scientific name of plant along with family and common name in front of respective plants in Rishi Vatika.
6. **Activity:** Sparkle Lab Excellence Award-18 competition on 29.11.2018. The Botany department took another step in the direction of our commitment to strengthen the Swachhta Abhiyan by participating in the “Sparkle Lab Excellence Award-18” competition organized by the Swachhta Committee for the Science Departments.

Faculty Activity 3 : Publications/Awards/Achievements

1. Dr. Gunjan Sud

Presentation in National/International Conference

- | S.No | Title |
|------|--|
| 1. | KashikaThanta & Gunjan Sud . 2019. Wild edible plants in Kotkhai (Shimla hills). <i>In:</i> 13 th Chandigarh Science Congress (CHASCON), 13.3.2019-15.3.2019. Organized by Panjab University, Chandigarh with Chandigarh Region Innovation and Knowledge cluster (CRIKC). Poster presentation |
| 2. | Ina Sharma & Gunjan Sud . 2019. Spring weeds in Compositae(Sunder Nagar town/ <i>In:</i> 13 th Chandigarh Science Congress (CHASCON), 13.3.2019-15.3.2019, 2019. Organized by Panjab University, Chandigarh with Chandigarh Region Innovation and Knowledge cluster (CRIKC). Poster presentation |
| 3 | Diksha & Gunjan Sud . 2019. Pteridophytes of Chandigarh. <i>In:</i> 13 th Chandigarh Science Congress (CHASCON), 13.3.2019-15.3.2019. Organized by Panjab University, Chandigarh with Chandigarh Region Innovation and Knowledge cluster (CRIKC). Poster presentation. |

2. Dr. Purnima Bhandari

Presentation in National/International Conference

- | S.No | Title |
|------|---|
| 1. | Chakshu, Navneet and Purnima Bhandari . 2019. Supplementation of glucose modulates salt stress in <i>Cicer arietinum</i> L. genotypes. <i>In: 13th Chandigarh Science Congress (CHASCON), 13.3.2019-15.3.2019. Organized by Panjab University, Chandigarh with Chandigarh Region Innovation and Knowledge cluster (CRIKC). Poster presentation</i> |
| 2. | Garima and Purnima Bhandari . 2019. Exogenous nitric oxide alleviates salinity stress in chickpea plants. <i>In: 13th Chandigarh Science Congress (CHASCON), 13.3.2019-15.3.2019. Organized by Panjab University, Chandigarh with Chandigarh Region Innovation and Knowledge cluster (CRIKC). Poster presentation</i> |
| 3. | Gupta, P., Kaur, A. and Purnima Bhandari . 2019. Microbes as bio-fertilizers – future for sustainable agriculture: An overview. <i>In: MICROCON & PUNJAB STARTUP FEST 2019, International conference on Microbial Biotechnology, 6.3.2019-8.3.2019. Organized by Department of Microbial Biotechnology & Cluster innovation centre in biotechnology BIONEST, Panjab University, Chandigarh-160014. Poster presentation</i> |
- **Recipient of TRAVEL GRANT** - sponsored by **International Union of Biological Sciences (IUBS), Paris** for presenting research work in **ICPEP- 6** (Sixth International Conference on Plants & Environmental Pollution in CSIR-National Botanical Research Institute Lucknow, India. 26th-30th November 2018.

3. Dr. Aditi Shreeya Bali

Publications

- | S.No | Title |
|------|---|
| 1. | Sidhu, G. P. S., Aditi Shreeya Bali ., Singh, H. P., Batish, D. R., &Kohli, R. K. (2018). Ethylenediaminedisuccinic acid enhanced phytoextraction of nickel from contaminated soils using <i>Coronopusdidymus</i> (L.) |

- Sm. *Chemosphere*, 205, 234-243.
2. Sidhu, G. P. S., **Aditi Shreeya Bali**, Singh, H. P., Batish, D. R., & Kohli, R. K. (2018). Phytoremediation of lead by a wild, non-edible Pb accumulator *Coronopus didymus* (L.) Brassicaceae. *International journal of phytoremediation*, 20(5), 483-489.
 3. Kumar, V., Sharma, A., Kaur, P., Sidhu, G. P. S., **Aditi Shreeya Bali**, Bhardwaj, R., Thukral, A.K. & Cerda, A. (2019). Pollution assessment of heavy metals in soils of India and ecological risk assessment: A state-of-the-art. *Chemosphere*, 216, 449-462.

4. Dr. Ruby Singh

Presentation in National/International Conference

S.No	Title
1.	Ruby Singh and Bimal, R. 2018. In Vitro Plant Regeneration in Tuberose. <i>In: Bio-cAMP 2018, a National Symposium on "Current Trends and future prospects in Biotechnology organised by Department of Biotechnology, UIET, Panjab University, Chandigarh November 1-2, 2018. Poster presentation.</i>

Students Publications/Awards/Achievements/Activities:

1. **Ritu Singh and Deepika Khatri** of B.Sc. (III) Medical **bagged second prize in *Pictionary*** in Environment Fest organized by Post Graduate Government College of Girls, Sector-42, Chandigarh on 2.2.2019.
2. **Simran Nagpal and Anupampreet Kaur** of B.Sc. (III) Medical **bagged first prize in *Rangoli making*** in Environment Fest organized by Post Graduate Government College of Girls, Sector-42, Chandigarh on 2.2.2019.
3. **Prachi Gupta** of B.Sc. (III) Medical **bagged first prize in *Tile Painting*** in Environment Fest organized by Post Graduate Government College of Girls, Sector-42, Chandigarh on 2.2.2019.
4. **Simran** of B.Sc. (III) Medical **bagged appreciation award in *Painting*** in Scifeista-2019 organized by Doaba College, Jalandhar on 16.2.2019.

5. **Prachi** of B.Sc. (III) Medical **bagged overall best painting award** in Scifeista-2019 organized by Doaba College, Jalandhar on 16.2.2019.
6. **Payal** of B.Sc. (II) Medical **bagged best awareness award** in Gastrofest in Scifeista-2019 organized by Doaba College, Jalandhar on 16.2.2019.
7. **Harleen** of B.Sc. (II) Medical **bagged best overall Scientoon award** in Scifeista-2019 organized by Doaba College, Jalandhar on 16.2.2019.
8. **Sweety Bisla** of B.Sc. (III) Medical cleared IITJAM 2019 (Biological Sciences and Biotechnology) with AI rank 546 and 415.
9. **Prachi Gupta** of B.Sc. (III) Medical cleared JGEEBILS/TIFR and IITJAM 2019 Biological Sciences with AI rank 112.
10. **Shweta** of B.Sc. (III) Medical qualified JGEEBILS/TIFR and cleared IITJAM 2019 Biological Sciences and biotechnology with AI rank 363 and 438.
11. **Gurpreet Kaur** of B.Sc. (III) Medical cleared IITJAM 2019 Biological Sciences with AI rank 451.

Workshops/Lectures

S.No	Title of lecture	Date	Speaker	Designation	No of beneficiaries
1.	Grow your own food	1.8.2018.	Mr. Rahul Sharma	Computer Engineer	B.Sc. 2 nd and 3 rd year medical students attended
2.	Art of Bonsai making	12.10.2018	Dr. Jaspreet Kaur	Assistant Professor, Department of Botany, Panjab University, Chandigarh	52 students of B.Sc. Medical, 11 malis and 5 teachers
3.	Inter-College Declamation and Essay writing competition on Genetically modified crops: Boon or Bane?	4.10.2018	Chief guest Prof. Promila Pathak	Professor, Deptt. of Botany, Panjab University, Chandigarh	6 teams from different colleges participated in the event.

Guest lectures (details like name of scientist, topic, no. of students) number of students

S. No	Speaker's Name	Designation	Title of the lecture	No. of Students attended	Date
1.	Dr S.P. Khullar	Professor Emeritus, Department of Botany, Panjab University, Chandigarh	Plant in Everyday Life	B.Sc I and II (Med.) 100 Students attended	25.2.2019

VISITS TO INDUSTRIES, INSTITUTES (name of place, duration of visit and no. of students)

S.No.	Name of Place	Duration of Visit	No. of students
1.	Dr. Y.S. Parmar University of Horticulture and Forestry, Nauni, Solan	1 day (28.1.2019)	38 students of B.Sc. I, II and III (Med.) visited the university
2.	Field visit to Kausauli hills	1 day 19.11.2018	49 students of B.Sc. I, II and III (Med.) visited the area