




DESHBANDHU COLLEGE
(UNIVERSITY OF DELHI)
KALKAJI, NEW DELHI - 110019
Faculty Details Proforma for College Website

Title	Dr.	First Name	Preeti	Last Name	Rawat	Photograph
Designation	Assistant Professor					
Address	C-73, Saket Court Residential Complex, Saket, New Delhi-110017					
Phone No. Office						
Residence	9968244988					
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Email	prawat2k@gmail.com					
Web-Page						
Educational Qualifications						
Degree	Institution				Year	
Ph.D.	Department of Genetics, University of Delhi South Campus				2010	
M.Phil.	Department of Botany, University of Delhi				2003	
PG	Department of Botany, University of Delhi				2002	
UG	Maitreyi College, University of Delhi				2000	
Any other qualification	CSIR-NET-JRF				2002	
Career Profile						
<ul style="list-style-type: none"> • Jan 2020 - till date: Assistant Professor, Department of Botany, Deshbandhu College, University of Delhi • Aug 2010 - Nov 2019: Assistant Professor, Department of Botany, Daulat Ram College, University of Delhi • June 2010 - Aug 2010: Research Associate, Department of Genetics, University of Delhi South Campus. • Jan 2004 - June 2010: Ph.D. Scholar (1year, Junior Research Fellow; 5.5 years, Senior Research Fellow), Department of Genetics, University of Delhi South Campus. • Jan 2003 - Dec 2003: Junior Research Fellow, Department of Botany, University of Delhi 						
Administrative Assignments						
<ul style="list-style-type: none"> • Member, Garden Committee, Daulat Ram College, 2018-19 • Member, Women Development Cell, Daulat Ram College, 2016-19 • Staff Advisor, Department of Botany, Daulat Ram College, 2017-18 • Member, Student's Amenities, Daulat Ram College, Sep 2015-2017 						

<ul style="list-style-type: none"> • Member, Students Advisory Board, Daulat Ram College, 2016-17 • Garden Committee, Daulat Ram College, Aug 2015-2016
Areas of Interest/Specialization
Plant Biotechnology, Genetics, Molecular Biology, Plant Physiology, IPR
Subjects Taught
<p>V and VI Semester: Plant Biotechnology (CC), Plant Physiology (CC), Plant Metabolism (CC), Analytical Techniques in Plant Sciences (DSE), Industrial and Environmental Microbiology (DSE), Bioinformatics (DSE)</p> <p>III and IV Semester: Genetics (CC), Molecular Biology (CC), Ecology (CC), Intellectual Property Rights (SEC), Plant Physiology and Metabolism (GE)</p> <p>I and II Semester: Biomolecules and Cell Biology (CC), Mycology and Phytopathology (CC), Archegoniatae (CC), Biodiversity (GE), Environmental Science (AEC)</p>
Research Guidance
<p>List against each head (If applicable):</p> <ol style="list-style-type: none"> 1. Supervision of awarded Doctoral Thesis 2. Supervision of Doctoral Thesis, under progress 3. Supervision of awarded M.Phil. dissertations 4. Supervision of M.Phil. dissertations, under progress
Publications Profile
<p>List against each head (If applicable) (as Illustrated with examples)</p> <ol style="list-style-type: none"> a) Books/Monographs (Authored/Edited) - b) Research papers published in Refereed/Peer Reviewed Journals <ul style="list-style-type: none"> • Rawat P (2016). Insect resistant Bt Cotton. Swadeshi Vigyan. Vol 1 Issue 3, www.swadeshivigyan.com/btcottonprawat, ISSN 2456-0855. • Rawat P et al (2011). Detrimental effect of expression of Bt endotoxin Cry1Ac on <i>in vitro</i> regeneration, <i>in vivo</i> growth and development of tobacco and cotton transgenics. Journal of Biosciences 36(2): 363-376; ISSN: 0250-5991. • Rawat P, Kumar S, Pental D and Burma PK (2009). Inactivation of a transgene due to transposition of insertion sequence (IS136) of <i>Agrobacterium tumefaciens</i>. Journal of Biosciences 34(2): 199-202. ISSN: 0250-5991. • Rawat P, Ray K, Pental D and Burma PK (2008). Mutant <i>acetolactate synthase</i> gene conferring resistance to the herbicide "Imazethapyr" is an efficient <i>in vitro</i> selection marker for genetic transformation of cotton. Current Science 95:1454-1458; ISSN: 0011-3891. c) Research papers published in Academic Journals other than Refereed/Peer Reviewed Journals – <ul style="list-style-type: none"> • Rawat P (2018). High Value Nanoparticlces from Agricultural and Horticultural Waste. Liana 2017-18.

d) *Research papers published in Refereed/Peer Reviewed Conferences*

- **Rawat P (2018)**. Therapeutic and Cosmetics uses of Honey. National Conference on Innovations in Sciences and Emerging Challenges in Health and Environment (NSHE-2018), Conference Proceeding.
- **Rawat P** and Kathal R (2016). Medicinal Plants of Indian Himalayan Region – “An Elixir of Life”. International Conference on Public Health: Issues, challenges, opportunities, prevention, awareness (Public Health 2016). Conference Proceedings, Vol. II: 216- 221, ISBN-978-93-85822-10-0.
- Kathal R and **Rawat P (2016)**. Immunity Booster Herbs and their Conservation – “A Review”. International Conference on Public Health: Issues, challenges, opportunities, prevention, awareness (Public Health 2016). Conference Proceedings, Vol. I: 135 - 140, ISBN-978-93-85822-10-0.

e) *Research papers Published in Conferences/Seminar other than Refereed/Peer Reviewed Conferences:*

- **Rawat P (2019)**. “Tulsi” The Queen of Herbs. Liana 2018-19. Symposium proceedings on “Environment and Sustainable development - New Perspectives (Under IQAC). Books and Books Unlimited. 2019. ISBN-9788193746622.

f) *Other publications (Edited works, Book reviews, Festschrift volumes, etc.):NA*

Conference Organization/ Presentations

List against each head (If applicable)

1. *Organization of a Conference:*

Acted as resource person in the following Conferences/Workshops:

- DST Inspire Science Camp. 17th-21st Dec **2018**. Resource person. Daulat Ram College, University of Delhi.
- Skill Development Workshop on “Food Adulteration”, July **2017**, Department of Botany, Daulat Ram College.
- Workshop on “Conservation of Medicinal Plants by Micropropagation”. Under Star College Project, 28th Sep- 1st Oct **2015**, Department of Botany, Daulat Ram College, University of Delhi, Delhi.

2. **Participation as Paper/Poster Presenter**

- **Poster:** National Conference on Innovations in Sciences and Emerging Challenges in Health and Environment (NSHE-2018). 20th March **2018**. “Therapeutic and Cosmetics uses of Honey”, Daulat Ram College.
- **Poster:** National Conference on Pharmacognosy: Scope of Phytochemically unexplored Medicinal Plants, 12th Jan **2017**, *Saussurea Costus – A Critically Endangered Plant of the Indian Himalayan Region*, Zakir Husain Delhi College.
- **Poster:** Delhi University Convocation Ceremony, Innovation Project Research Display, 19th Nov **2016**, “Zinc oxide nanoparticles from agriculture waste and its antimicrobial and food Packaging application: A green chemistry approach”. University of Delhi.
- **Poster:** International Conference on “Green Chemistry in Environmental Sustainability and Chemical Education”. 17-18 Nov, **2016**. “Agricultural waste mediated synthesis of zinc oxide

nanoparticles: A green chemistry approach". Department of Chemistry, Daulat Ram College, University of Delhi. Delhi.

- **Poster:** "National Conference on Combating Industrial Pollution for Sustainable Environment-A Fusion of Industrial and Scientific Efforts (CIPSE-2016), Sep 22-23, **2016**. Department of Chemistry, Gargi College, University of Delhi.
- **Oral:** Medicinal Plants of Indian Himalayan Region - An Elixir of Life". International Conference on Public Health: Issues, challenges, opportunities, prevention, awareness. Jan 15-16, **2016**, Daulat Ram College, university of Delhi, Delhi, India.
- **Oral:** Immunity Booster Herbs and their Conservation - A Review. International Conference on Public Health: Issues, challenges, opportunities, prevention, awareness. Jan 15-16, **2016**, Daulat Ram College, university of Delhi, Delhi, India.
- **Poster:** Expression of *cry1Ac* Gene is Detrimental to Regeneration and Development of Transgenics: A Study in Tobacco and Cotton. In Vitro Biology Meeting **2009**, June 6-10, Charleston, South Carolina, USA.
- **Poster:** Expression of *cry1Ac* Gene is Detrimental to Regeneration and Development of Transgenics: A Study in Tobacco and Cotton. 30th Annual meeting of Plant Tissue Culture Association (India) and National Symposium on Plant propagation, Conservation, Modification and Characterization. April 3-4, **2009**, IHBT, Palampur, India.
- **Plenary lecture:** Why achieving high levels of Cry1Ac protein is difficult in cotton? International Conference on Plant Biotechnology and Molecular Biology. Aug 15-17, **2008**, Dept. Of Biotechnology, Warangal, AP, India.
- **Poster:** Development of a genetic transformation protocol for cotton (*Gossypium hirsutum*L. cv. Coker 310FR) using double mutant acetolactate synthase (*ALS^{dm}*) gene as a selection marker. National Symposium on Plant Biotechnology. Oct 12-14, 2006, FRI, Dehradun, India.

Research Projects (Major Grants/Research Collaboration)

- **Principal Investigator in Innovation Project, DR 302**, (Project Code DRC-302) awarded in the year 2015, with an annual grant of Rs 5.5 Lakh from University of Delhi. The topic of research was "Zinc oxide nanoparticles from agricultural waste and its Antimicrobial and Food Packaging Application: A Green Chemistry Approach".

Awards and Distinctions

- **Second Prize for poster presentation** at "National Conference on Combating Industrial Pollution for Sustainable Environment-A Fusion of Industrial and Scientific Efforts (CIPSE-2016), Sep 22-23, 2016. Department of Chemistry, Gargi College, University of Delhi.
- **Innovation project** (Project Code DRC-302) awarded in the year 2015, with an annual grant of **Rs 5.5 Lakh** from **University of Delhi**.

- **International Travel Grant** from Department of Biotechnology (**DBT**) and Indian National Science Academy (**INSA**), Govt. of India for attending “**In Vitro Biology Meeting 2009**” held at Charleston, South Carolina, **USA**, 6th-10th June 2009.
- **CSIR (NET-JRF) Fellowship** by Council and Industrial Research (CSIR), Ministry of Human Resource and Development, Govt. of India (2002-2007).
- **Prize for poster presentation** at “30th Annual meeting of Plant Tissue Culture Association (India) and National Symposium on Plant propagation, Conservation, Modification and Characterization” April 3-4, 2009, IHBT, Palampur.
- **Prize for poster presentation** at “National Symposium on Plant Biotechnology” Oct 12-14, 2006, FRI, Dehradun, India.
- Merit certificate for standing **1st in University of Delhi (UDSC) in B.Sc. (Honours) Botany II year** (1999).
- Merit certificate for standing **1st in B.Sc. (Honours) I, II and III year** in Maitreyi College (1997-2000).

Association with Professional Bodies

- Society of In Vitro Biology (USA), 2009-2010
- Plant Tissue Culture Association (India), 2007-2010
- Indian Society of Cell Biology (India), 2004-2005

Other Activities

- As a **Principal Investigator (PI)**, 2015-16, guided undergraduate students of B.Sc (Hons) Botany and B.Sc. (Hons) Chemistry under the Innovation project DRC-302.
- As a **staff advisor of Botanical Society**, Daulat Ram College, 2017-18, conducted various academic, cocurricular and extracurricular activities for the students throughout the year. Organized lectures of eminent scientists to familiarize students with the latest development in the field of science and technology. Towards the end of the session organized inter-college botanical festival and edited and released the botanical magazine.
- As a **member of Women Development Cell**, Daulat Ram College, **2016-2019**, was actively involved in organizing various seminars, workshops and other events issues pertaining to women empowerment and social justice.
- As a **member of Garden Committee**, Daulat Ram College, was actively involved in taking care of the College garden, nursery and potted plants. Helped the Convener Garden Committee, 2015-16, Dr N.P. Malkani, in labelling numerous plants growing in the College premises to familiarize students with the flora of the College.
- As a **member of Students Amenities Committee**, Daulat Ram College, helped in conducting interviews for fee concession for students who belong to economically weaker sections. In order to ensure students, get financial aid from the University to pursue their studies.

- As a **member of Student Advisory Board**, Daulat Ram College, was actively involved in organizing various extracurricular events in the college in the academic year 2016-17.

Preeti Rawat

Signature of Faculty Member

- You are also requested to give your complete resume as a Word or PDF file to be attached as a link on your department page.