

Resume

Name : Dr Priyanka Sharma

Designation: Assistant Professor

Qualification: M.Sc. (Hons. School) in Botany, Ph.D in Botany (spz: Plant Physiology & Secondary Metabolites)

Experience: 10 years Research, 3 years teaching

Father's Name: Shri Rajender Prashad; **Nationality:** Indian;

Date of Birth : 22-10-1980

Sex: Female; **Marital Status:** Married; **Language Proficiency:** English, Hindi.

E-mail: priya_agn@yahoo.com

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ACADEMIC BACKGROUND

DBT BioCARE Scientist (2012—2015) at Department of Biotechnology, Savitribai Phule Pune University, Pune, India, with mentor of **Prof. W.N. Gade**.

Postdoctoral Fellowships (2009-20012):

UGC-Dr. D.S. Kothari Post Doctoral Fellow (From 6th Jan, 2009 to 5th Jan 2012) at Department of Biotechnology, Savitribai Phule Pune University, Pune, India, with mentor of **Prof. W.N. Gade**. **Title: Gene expression analysis of brassinosteroid regulated stress proteins in rice under heavy metals stress**

Ph. D. in Botany : 2008—Degree in subject of Botany (Life Sciences) has been awarded (Specialization in: Biochemistry, Toxicology, Genotoxicity and Phytoremediation, Plant Physiology, Plant Growth Regulation,)-Place: Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar (India)

M. Sc. (Hons School) in Botany – 2003, Guru Nanak Dev University, Amritsar, India

B. Sc. (Hons School) in Botany – 2001, Guru Nanak Dev University, Amritsar, India

Senior Higher Secondary – 1998, CBSE

Matriculation - 1995, H.P. Board, Merit in Board

Research/Teaching experience

- ✓ Served as, **Botany Lecturer** in Hindu College of Amritsar, Punjab (From July, 2006 to March, 2007).
- ✓ Served as **Teaching Research Associate** in Department of Biotechnology, University of Pune, Pune, India (From 18th Feb, 2008 to 31st Dec, 2008). **Taught**

- various subjects (Theory as well as practicals) to M.Sc. Biotechnology (JNU students): **Plant Molecular Biology, Cell Biology, Plant Tissue Culture and Plant Biotechnology**).
- ✓ Served as **Assistant Professor in Department of Biotechnology**, Modern College of Arts, Science & Commerce, Ganeshkhind, Pune. (From **7th July 2017 to continue..**). Taught various subjects (Theory as well as practicals) to B.Sc. Biotechnology: Botany, Biodiversity, Environmental Biotechnology, Biochemical & Biophysical Techniques, Recombinant DNA Technology

Awards/Honors:

- ✓ **Postdoctoral Fellowships (2009-2012):UGC-Dr. D.S. Kothari Post Doctoral Fellow** (From 6th Jan, 2009 to Jan 2012..) at Department of Biotechnology, University of Pune, Pune, India, with mentor of Prof. W.N. Gade.
- ✓ **DBT BioCARE Scientist (2012—September, 2015)** Department of Biotechnology, New Delhi **awarded a 40.6 Lakh Project under BioCARE Scheme; at Dept. of Biotechnology, SPPU, Pune, India**, with mentor of Prof. W.N. Gade for the implementation of project entitled “**Anti-inflammatory and Apoptosis –promoting activities of Brassinosteroids isolated from medicinal plant**”

Technical Expertise

Spectrophotometer, Atomic Absorption Spectrophotometer, Mercury Analyzer, Gel Documentation, ELISA, Electrophoresis, Plant Tissue Culture, Animal Tissue Culture Techniques, DNA & RNA isolation, PCR, **Real Time-PCR, SDS, native- PAGE, 2D, Western Blot**, Chromosomal aberration assay, Ames assay, **HPLC, GC-MS, LC-MS, Flow Cytometer.**

List of Extramural Projects

1. Department of Biotechnology (DBT), New Delhi under BioCARE-Women Scientist Scheme **sanctioned a project entitled “Anti-inflammatory and Apoptosis-promoting activities of Brassinosteroids isolated from medicinal plant”** for 3.6 years (March, 2012 to September, 2015). **Total Cost of Project: Rs. 40,61,550/-**

Membership of Societies and other academic bodies

- ✓ Member, Aagaaz- Earth & Resources Care Group, Amritsar
- ✓ Member, International Journal “Bioscience Reporter”(Journal of Current Bioscience)
- ✓ Member of The Indian Botanical Society

Reviewer:

1. Acta Physiologiae Plantarum - Springer
2. Ecotoxicology and Environmental Safety - Journal - Elsevier
3. International Journal of Green Pharmacy

Project Students supervised:

1. Anju Meshram (JRF in DBT Biocare Project)
2. Sarita Tripathi (JRF in DBT Biocare Project)
3. B.Sc Biotechnology students under DBT star Scheme program

Computer Literacy

Operating system	DOS, WINDOWS-NT, 98, Xp
Application software	OFFICE 2000
Language	Fortran77, Lotus and Database

WORKSHOPS/ / TRAINING PROGRAMMES

1. “On Job Training” on Seed Technology at Seed Technology Department of Punjab Agricultural University, Ludhiana, Punjab, June – July, 2001.
2. 51st BRNS- IANCAS National Workshop On Radiochemistry & Applications of Radioisotopes held at Department of Physics, Guru Nanak Dev University, Amritsar, November 10-17, 2003.
3. Sixth (Fulbright)- SAARC IAELP International Workshop on Water Saving Technologies held at Dept. of Botanical & Env. Sciences, G.N.D.U, Amritsar (Punjab), February 22-24, 2006.
4. **5 Days Hand-on Workshop** 5 days Hands-on Workshop on Molecular Biotechnology and **Bioinformatics**, held at **International Center for Stem Cells, Cancer and Biotechnology (ICSCCB), Pune, India, December 24-28, 2012.**
5. International Interdisciplinary Science Conference (I-ISC, 2012) On Protein Folding and Diseases”, organized by the Centre for Interdisciplinary Research in Basic Sciences, Jamia Millia Islamia, New Delhi, on December 8-10, 2012
6. UGC Sponsored National Seminar on “Biodiversity and Environment” organized by Shahzada Nand College, Amritsar, on January 24-25, 2013
7. UGC Sponsored National Conference on “Medical Biotechnology (NCMB-13)” held at DAV College, Jalandhar, on February 02, 2013.
8. DST Sponsored Indo-Mexico Workshop on Bioechnology : Beyond Borders organized at NCL, Pune on 7-9 September,2013.
9. **Priyanka Sharma**, AnjuMesharam, **SaritaTripathi***, Renu Bhardwaj and W.N. Gade. (2014). **Isolation of Brassinosteroids from medicinal plant *Bacopamonnieri L.* and their cytotoxic effects on human cancer cell lines.** Presented a poster at National Seminar on ‘Medicinal Plants: Bioprospecting, Agrotechniques& Enhancement of Secondary Metabolites ’ organized at Department of Botany, University of Pune, Pune from 13-14 Februrary,2014

10. Tripathi, S., Sharma, P. and Gade, W.N. (2015). Apoptosis promoting activities of brassinosteroids isolated from *Bacopa monnieri* L. in human cancer cell lines. Presented a poster at **International Symposium on “Current Advances in Radiology, Stem Cells and Cancer Research’** organized at JNU, 19th to 21st Feb, 2015.
11. DBT Sponsored short term **Hands on training course on “Methodologies used in gene expression analysis”** held at **Department of Botany, SPPU, Pune, from September, 29 to October 20, 2015**

Full List of Publications:

1. **Sharma, P.** and Bhardwaj, R. (2007). Effects of 24-epibrassinolide on growth and metal uptake in *Brassica juncea* L. under copper stress. *Acta Physiologiae Plantarum* **29(3):** 259-263. **IF: 1.65**; Citations: 43. ISSN: 01375881
2. **Sharma, P.,** Bhardwaj, R., Arora, N. and Arora, H.K. (2007). Effect of 28-homobrassinolide on growth, zinc metal uptake and antioxidative enzyme activities in *Brassica juncea* L. seedlings. *Brazilian Journal of Plant Physiology*. **19: 203-210. IF: 1.12**, Cited by 13; ISSN:16770420, 16779452
3. **Sharma, P.** and Bhardwaj, R. (2007). Effect of 24-epibrassinolide on seed germination, seedling growth and heavy metals uptake in *Brassica juncea* L. *J. ‘General and Applied Plant Physiology’* **33: 59-73. Citation:5**
4. Bhardwaj, R. **Sharma, P.,** Arora, H.K. and Arora, N. (2008). 28-Homobrassinolide regulated Mn-uptake and growth of *Brassica juncea* L. *Canadian Journal of Pure and Applied Sciences*. **2(1): 149-154. IF 2**, citation: 5; ISSN 1715-9997
5. **Sharma, P.,** Bhardwaj, R., Arora, N., and Arora, H.K. and Kumar, A. (2008). 28-Homobrassinolide - regulated effects of nickel on metal uptake, protein content and antioxidative defence system in *Brassica juncea* L. *Biologia Plantarum*. **52(4): 767-770. Impact factor 1.8; Citation : 19; ISSN: 0006-3134**
6. Arora, N., Bhardwaj, R., **Sharma, P.** and Arora, H.K. (2008). Effect of 28-homobrassinolide on growth, lipid peroxidation and antioxidative enzyme activities in seedlings of *Zea mays* L. under salinity stress. *Acta Physiologiae Plantarum*. **30(6): 833-839. Impact factor: 1.5, Citations: 23; IF: 1.65; Citations: 43. ISSN: 01375881**
7. Arora, N., Bhardwaj, R., **Sharma, P.** and Arora, H.K. (2008). 28-Homobrassinolide alleviates oxidative stress in salt treated maize (*Zea mays* L.) plants. *Brazilian Journal of Plant Physiology*. **20(2): 153-157. Impact factor: 1.12; ISSN:16770420, 16779452**

8. Arora, N., Bhardwaj, R., **Sharma, P** and Arora, H.K. (2008). Amelioration of Zn toxicity by 28-homobrassinolide in *Zea mays L.* **Canadian Journal of Pure and Applied Sciences.** **2(3):503-509, Impact factor: 2.6; Citations: 9; ISSN 1715-9997**
9. Bhardwaj, R. **Sharma, P.**, Arora, N. and Arora, H.K. (2011). Amelioration of Mn toxicity by brassinosteroids in *Brassica juncea L.* **International Journal of Environment and Waste Management.**8(1-2): 114-122 Impact Factor: 1.06
- 10 Kanwar, M.K., Bhardwaj, R., Arora, P., Chowdhary, S.P., **Sharma, P.** and Subodh Kumar (2012) Plant steroid hormones produced under Ni stress are involved in the regulation of metal uptake and oxidative stress in *Brassica juncea L.* **Chemosphere.**86(1): **41-49 Impact Factor: 4.25 Citations 10; ISSN: 0045-6535**
11. Mukesh Kumar Kanwar, Renu Bhardwaj, Sikandar Pal Chowdhary, Priya Arora, **Priyanka Sharma** and Subodh Kumar (2013) Isolation and characterization of 24-epibrassinolide from *Brassica juncea L.* and its effect on growth, Ni ion uptake, antioxidant defense of Brassica plants and in vitro cytotoxicity. **Acta Physiol Plant.** (35): 1351-1362 **IF: 1.5;** ISSN: 01375881
12. **Sharma,P*.,** Anil K., and Bhardwaj, R. (2016). Plant steroidal hormone epibrassinolide regulate – Heavy metal stress tolerance in *Oryza sativa L.* by modulating antioxidant defense expression. **Environ. Exp. Bot.** **122, 1–9 Impact Factor: 4.4; ISSN :0098 8472 (Corresponding Author)**
13. Tripathi, S. and **Sharma, P.*** (2015).Characterization of Brassinosteroid isolated from *Bacopa monnieri L.* and their free radical scavenging activity. International Journal of Science and Research. 4(4): 2738-2743. Impact Factor 4.4.; ISSN: 2229-5518 **(Corresponding Author)**
14. Bhardwaj, R., Arora, N., **Sharma, P.**, Arora, H.K., Thukral, A.K. (2013). Stress protective properties of brassinosteroids. In: Prof. S.B.Saksena Commemoration Volume -Ecorestoration and Biodiversity Conservation (Eds. G.P. Mishra and Asha Gupta), Aavishkar Publishers, Jaipur. pp. 55-71. ISBN: 978-81-7910-418-7
15. Sharma, P*; Tripathi, S. Meshram A.and Bhardwaj, R. (2016). The pharmacology of *Bacopa monnieri*: As an Emerging Medicinal Plant. Communicated.
16. Sharma P* and Malpathak, N.P.K. (2018). Novel drug delivery systems: The potential agrochemical activity of polymer conjugates covalently attached to hormones with. Current Drug Discovery Technology (communicated).

17. Tripathi, S. Meshram A; Bhardwaj, R. and Sharma, P* (2018). Brassinosteroids-caused apoptosis of human cervical cancer cells (HeLa) is mediated via modulation of apoptotic pathways. Journal of Ethanopharmacology (Communicated)
18. Sharma, P*; Tripathi, S. Meshram A. and Bhardwaj, R. (2018). Induction of antiproliferative effect by natural brassinosteroids through activation of apoptosis and modulation of caspase activity in HepG2 cell lines. Food Chemistry. Communicated.

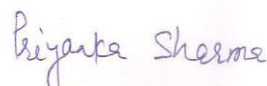
Interest & Activities: Reading, Debate, Writing, Cooking

Strength: Good at time and resource management, analytical, quick learner

Addresses for correspondence:

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Dr. Priyanka Sharma Department of Biotechnology Modern College Ganeshkhind Pune-411016 Maharashtra Mob: 9850822529	Dr. Priyanka Sharma W-601, Topaz Park, Park Street Wakad, Pune-411057 Maharashtra Mob: 9850822529

I, hereby declare that all the above-mentioned particulars are correct.



(Dr. Priyanka Sharma)

