




Shivaji College Faculty Details Proforma

Title	Dr.	First Name	Kiran	Last Name	Bamel	Photograph
Designation		Assistant Professor				
Address		Department of Botany Shivaji College University of Delhi				
OfficePhone No.		011-25116644				
Residence		011-27058922				
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Email		kbamel@yahoo.in				
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Educational Qualifications						
Degree		University/Institute			Year	
Ph.D.		University of Delhi, Delhi*			2003	
M.Phil./M.Tech.		-				
PG		MDU, Rohtak, Haryana**			1997	
UG		MDU, Rohtak, Haryana			1994	
Any Other Qualification B. Ed		MDU, Rohtak, Haryana			1995	
*		CSIR fellowship (JRF: 1998-2000; SRF: 2001-2003)				
**		Gold-Medalist				
Career Profile						

2007- onwards : Assistant Professor in Department of Botany, Shivaji College, DU, Delhi
2006-2007: Department of Botany (Guest Lecturer), Lady Irwin College, University of Delhi, Delhi, India
2003-2006: Department of Botany (Contract Lecturer), MDU, Rohtak, Haryana

Administrative Assignments

Areas of Interest/Specialisation

Physiology and Biochemistry of Plant Growth & Development
Plant Tissue Culture

Subjects Taught

At post-graduate level (M. Sc. Botany):

Plant Biotechnology
Plant Systematics
Plant Resource Conservation and Utilization

At undergraduate level (B. Sc. Hons Botany, B.Sc Prog Life Sciences):

Plant Biotechnology
Genetics
Molecular Biology
Plant Physiology
Plant Biochemistry and Metabolism
Analytical Techniques in Plant sciences
Ecology
Environment Sciences (B. A. Prog in Annual mode)

Innovation Project/Research Projects (Major Grants/Research Collaboration)

INNOVATION PROJECT, 2014-15, code: SH 204 (Completed)
Water Harvesting Techniques for Development in Nagaur District, Rajasthan

INNOVATION PROJECT, 2015-16, code: SH 313 (Completed)
“Comparative analysis of heavy metal toxicity and pesticide contamination in vegetables collected from local sites and organic stores in Delhi”

Publications Profile (Research Papers/Books)

RESEARCH PAPERS

Kiran Bamel, Shrish C. Gupta and Rajendra Gupta. 2007. Acetylcholine induces root formation in *in vitro* cultured leaf explants of tomato, *Lycopersicon esculentum* Miller var Pusa Ruby. *Life Science* (80): 2393-2396

Kiran Bamel, Rajendra Gupta, and Shrish C. Gupta. 2015. Nicotine promotes rooting in leaf explants of *in vitro* raised seedlings of tomato, *Lycopersicon esculentum* Miller var Pusa Ruby. *International Immunopharmacology* (29): 231-234

Kiran Bamel, Rajendra Gupta, and Shrish C. Gupta. 2016. Acetylcholine suppresses shoot formation and callusing in leaf explants of *in vitro* raised seedlings of tomato, *Lycopersicon esculentum* Miller var Pusa Ruby. *Plant Signaling and Behaviour*.11:6,e1187355
<http://dx.doi.org/10.1080/15592324.2016.1187355>

Tejbir Singh Rana, Bharat Ratnu, Kiran Bamel. 2015. Fluoride Toxicity of Ground Water in Makrana Tehsil, Nagaur District, Rajasthan. *DU Journal of Undergraduate Research and Innovation*; 1 (2): 386-394

REVIEW ARTICLES

Kiran Bamel, Seema Talwar and Pamil Tayal. 2016. Science and Gender: a Retrospective. Alleviation- *International Journal of Nutrition, Gender and Social Development*; 3(3): 71-76. p-ISSN 2348-9340.

Gurjeet Kaur, V. Prabhavathi, Kiran Bamel, and Maryam Sarwat. 2017. Phosphate Signaling in Plants: Biochemical and Molecular Approach. In: *Stress Signaling in Plants: Genomics and Proteomics Perspective*, Volume 2, Sarwat et al. (eds.), Springer International Publishing Switzerland, pp-83-110, DOI 10.1007/978-3-319-42183-4_4

Kiran Bamel, Pamil Tayal and Prabhavathi V. 2016. Reproductive Biology for Conservation of Medicinal Plants. In: *Medicinal Plants*.(ISBN: 978-81-8030-474-3) Edited by Suresh Kumar, Campus Books International Publications, New Delhi, pp. 93-102

Kiran Bamel , Aeshna Nigam, Shashi Nijhawan, Priyanka , Shalu Dagar, Himanshu Dalal, Shashank and Aniket Walia. 2016. Heavy Metal Toxicity Affects Male Reproductive Health. *Proceedings of the National Seminar on Water and Air Quality in Urban Ecosystem*, New Delhi, 22, March-2016. Pp. 1-6 ISBN:978-93-5267-493-0

Aeshna Nigam, Kiran Bamel, Shashi Nijhawan, Shivani Bharti, Shallu Dogra, Himanshu Dalal, Priyanka, Shashank and Aniket Walia. 2016. Effect of Heavy Metals on Reproductive Health of Women: Health Alarm!. *International Journal of Basic and Applied Biology*, Volume 3(4): 247-251. p-ISSN:2394-5820, e-ISSN: 2349-2539

Aeshna Nigam, Kiran Bamel, Darshan Malik and Shashi Nijhawan. 2016. Heavy Metal Contamination in Vegetables: Source of Nutrition or Health Hazard? *Journal of Basic and applied Engineering Research*- (p-ISSN: 2350-0077; e-ISSN: 2350-0255). 3(1): 60-65

Prabhavathi V, Kiran Bamel and Seema Talwar. 2015. Polyamines: Role in Transgenic Plants. *Contemporary Plant Sciences* (ISSN: 2393-8676), 2(1): 4-12

Seema Talwar, Pamil Tayal, Sanjeev Kumar, Kiran Bamel and Prabhavathi V. 2015. Climate change: A Threat to Biodiversity. *Proceedings of the National Conference on Climate Change: Impacts, Adaptation, Mitigation Scenario and Future Challenges In Indian Perspective*, New Delhi, 2-3 March. pp. 84-93

Conference/Seminar/Faculty Development Programme/Workshop

National Symposium on Frontiers and Avenues in Plant Sciences 2011, held in Shivaji College, University of Delhi, from 20-21st January.

National Symposium on Molecular Cell Biology- CATENANES 2009, held in Shivaji College, University of Delhi, from 24th-25th November

A symposium on Molecular Biology Current Innovations and Future Trends-SYNTENY 2007, held at Shivaji College, University of Delhi, October, 26-27, 2007.

2nd International Congress of Plant Physiology on 'Sustainable Plant Productivity Under Changing Environment', 2003, held at IARI, Delhi.

6th All India Conference on Cytology and Genetics held at MDU, Rohtak, from March 8-10, 1996.

Workshops Attended

Workshop on 'DNA Fingerprinting' at Hindu College, University of Delhi, Delhi on 22nd January, 2016.

IPR Workshop: Training the Trainers organised by Miranda House, University of Delhi, Delhi in collaboration with MHRD IPR CHAIR (TECHNICAL), University of Delhi, Delhi on 15th January 2016.

One Day 'Workshop Ankuran on Development of Herbal Garden' organised by Shivaji College, University of Delhi, Delhi, in collaboration with NMPB, Ministry of Ayush, Govt. of India, CEE, Department of Environment, Govt of NCT of Delhi on 29th January 2015.

A Workshop on Plant Proteomics organized by Department of Botany, University of Delhi from 26-30 December, 2013.

A Workshop on Fundamentals of Bioinformatics organized by Ramjas College at ILL, University of Delhi from 26-30 September, 2011.

A ICT Workshop for Capacity Building of Delhi University Faculty organized by ILL in Shivaji College from 6-12 April, 2010.

A Workshop on Biology Laboratory Course for B. Sc Programme 1st year (BY-106) at Daulat Ram College, University of Delhi, September, 2008.

A Workshop on Biology Laboratory Course for B. Sc Programme 2nd year (LS-206) in Miranda House, University of Delhi, September 24-26, 2008.

A workshop on Recent techniques in DNA Isolation, Cloning, and Characterization was attended at Central Institute of Medicinal and Aromatic Plants (CIMAP) at Lucknow in 2001.

UGC-HRD sponsored Courses Attended

A UGC sponsored Refresher Course in Winter School (ID) of three weeks duration held at CPDHE, University of Delhi from 28th November - 19th December 2017.

A UGC sponsored Refresher Course in Research Methodology of three weeks duration held at CPDHE, University of Delhi from 15th June - 4th July 2015.

A UGC sponsored Orientation Programme (OR-78) of four weeks held at CPDHE, University of Delhi from 10th November -6th December 2014.

Research Guidance (*Supervision of Doctoral Thesis/Dissertations*)

Awards and Distinctions

Best Innovative Idea Award in Antardhwani, DU - 2015
Teaching Excellence Award for Innovation, DU - 2015
Certificate of Most Significant Societal Impact for Project SHC-313, DU - 2017

Memberships

Other Academic Activities

Organized a visit of B. Sc. (Programme) Life Sciences students to Department of Microbiology and Blue Green Algae division at IARI, Delhi, 2017.

Organized a visit of B. Sc. (Hons) Botany and B. Sc. (Programme) Life Sciences students to Yamuna Biodiversity Park, Delhi, 2016.

Organized a One Day Workshop "Ankuran" on Development of Herbal Garden with other faculty members under the Eco-Club on 29th January, 2015.

Organized Visit to Tilyar Lake Resort with other faculty members, under the Eco-Club, 2014.

Organized Planet ke Rakhwale Take Back and Recycling Campaign in the college with other team members under the Eco-Club.

Organized visits for B. Sc. (Hons) Botany and B. Sc. (Programme) Life Sciences students to Yamuna Biodiversity Park, Delhi, 2007-2009.

Organized visits for B. Sc. (Hons) Botany 2nd year students to Seed Bank, Molecular and Biotechnology laboratories at NBPGR, Pusa Campus, Delhi from 2007-2010.

Cultural/Extracurricular Activities

Signature of Faculty Member