



## Faculty Details proforma for DU Web-site

(PLEASE FILL THIS IN AND Email it to [websiteDU@du.ac.in](mailto:websiteDU@du.ac.in) and cc: [director@ducc.du.ac.in](mailto:director@ducc.du.ac.in))

Title	Prof.	First Name	S. B.	Last Name	Babbar	Photograph
Designation		Professor and Head				
Address		Room No. 3, Department of Botany, University of Delhi, North Campus, Delhi 110007				
Phone No	Office					
	Residence	91-11-47037067				
	Mobile	09810278024, 09968420972				
Email		<a href="mailto:babbars@rediffmail.com">babbars@rediffmail.com</a> , <a href="mailto:sbbabbar@gmail.com">sbbabbar@gmail.com</a>				
Web-Page						
Educational Qualifications						
Degree		Institution			Year	
<b>Ph.D.</b>		Ph.D ( <i>In Vitro</i> Sporophytic Development of Pollen in some Angiosperms), University of Delhi			1983	
<b>M.Phil.</b>		M.Phil.(Botany), University of Delhi			1978	
<b>PG</b>		M.Sc. (Botany), University of Delhi			1977	
<b>UG</b>		B.Sc. (Hons.- Botany), University of Delhi			1975	
<b>Pre-medical</b>		Pre – medical, University of Delhi			1973	
Career Profile						
<p>2004-till date: Professor, Department of Botany, University of Delhi.</p> <p>1996- 2004: Reader, Department of Botany, University of Delhi.</p> <p>1988-1996: Senior Lecturer, Department of Botany, University of Delhi.</p> <p>1985-1988: Lecturer, Department of Botany, University of Delhi.</p> <p>1984-1985: Research Scientist (PL-480 Project), Department of Botany, University of Delhi.</p> <p><b>Jan-March 1984: Lecturer (ad hoc), K.M. College, University of Delhi</b></p> <p><b>Nov 1983-Jan 1984: Research Associate (UGC), Department of Botany, University of Delhi.</b></p> <p><b>Jan-April 1983: A Contract, FERRO, USDA, US Embassy, New Delhi</b></p>						
Administrative Assignments						
<p>1978 – 1979: Vice-President, Delhi University Botanical Society</p> <p>May 1989-August 1996: Resident Tutor of P.G. Men’s Hostel, University of Delhi</p> <p>August 1996-January 1997: Warden of P.G. Men’s Hostel, University of Delhi</p>						

Secretary, Departmental Academic Staff Council from 1993 to 1996.

1986-1994, 1996-202: Teacher-in-charge, teaching arrangements in the department

1994-1996: Teacher-in-charge of Central Tissue Culture Facility in the Department

1995-1999, 2005-2008: Convener, Stores Committee in the Department

1994-2002: Staff Advisor, Delhi University Botanical Society

1999-2003: Convener, Equipment Repair & Maintenance Committee of the Department

1998, 1999, 2000: Co-ordinator for annual B.Sc. Practical examinations of the University of Delhi

2002-2005: Convener, Library Committee, Department of Botany.

2011- : Convener, Committee for Ad Hoc Panel

2017- : Teacher-in-Charge, Administration in the Department

2017- 2020 : Staff Advisor, Delhi University Botanical Society

2020 - : Head of the Department

#### Areas of Interest / Specialization

*In Vitro* Plant Morphogenesis and Molecular Taxonomy. Research work deals with *In Vitro* Androgenesis, Micropropagation, Alternative Gelling Agents for Microbial and Plant Tissue Culture Media, Role of NO in *In Vitro* Morphogenesis and DNA Barcoding of Plants.

#### Subjects Taught

**Cell Biology, Plant Biotechnology, Phycology**

Time table of the subjects taught during the current semester

BOT 407:  
Contemporary Concepts and Methods in Cell Biology  
TUESDAY  
8.45-10.35 (Theory), 10.35 am-4.05pm (practical)

#### Research Guidance

##### ***Supervision of awarded Doctoral Thesis***

Kumari, Sunita. 1996. Developmental, Histochemical and Ultrastructural Studies on Thallus to Sporangium *Padina tetrastratica* Hauk., *Spatoglossum variable* Figari et Denotaris and *Pocockiella variegata* (Lamour) Papenfuss. University of Delhi. (under co-supervision of Late Prof. M.R.V. Raghavan)

- Ram (née Bhalla), Monika. 1997. Studies in Development on Carposporophyte and Tetrasporophyte of the red alga, *Coelarthrum opuntia* (Endlicher) Börgesen. University of Delhi. (under co-supervision of Late Prof. M.R.V. Raghavan)
- Jain, Neeru. 1999. Studies on *In Vitro* Production Of Plants of Black Plum, *Syzygium cuminii* (L.) Skeels, A Myrtaceous Fruit Tree and 'Isubgol' and 'Gum Katira' as Alternative Gelling Agents. University of Delhi.
- Walia, Neetika. 2003. *In Vitro* Studies on an Edible Oil-yeilding Plant, *Carthamus tinctorious* L. and a Medicinal Tree, *Crataeva nurvala* Buch. Ham. University of Delhi.
- Raina, Anupam. 2006. *In Vitro* Regeneration and Reproductive Biology of Mulberry. University of Delhi. (under co-supervision of Prof. S. S. Bhojwani)
- Jain, Ruchi. 2006. Alternative Gelling Agents for Microbial and Plant Tissue Culture Media: An Exploratory and Comparative Study. University of Delhi.
- Goel, Deepa. 2006. Development of Transgenic Tomato (*Lycopersicon esculentum* Mill.) with Improved Tolerance to Drought and Salinity. University of Delhi. (under co-supervision of Dr. K. C. Bansal, NRCPB, IARI, New Delhi)
- Misra, Sasmita. 2007. Molecular Analysis of Drought Stress Tolerance, *In Vitro* Propagation and Genetic Fidelity of Micropropagated *Populus x euroamericana* Plants. University of Delhi. (under co-supervision of Prof. S.C. Gupta).
- Kaur, Amandeep. 2008. Safflower: *In Vitro* Multiplication, Stress Physiology and Selection of Salt-Tolerant Variants. University of Delhi.
- Lata, Charu. 2010. Putative Role of Nitric Oxide in *In Vitro* Morphogenesis. University of Delhi.
- Khurana, Ashima.2012. Investigations in Nitric oxide (NO) Induced flowering of *Lemna aequinoctialis* Welw., University of Delhi.
- Hemant Kumar Singh. 2012. DNA barcoding of some species of *Dendrobium* Swartz. University of Delhi (co-supervisor Dr. Saurabh Raghuvanshi, Department of Plant Molecular Biology, University of Delhi).
- Iffat Parveen. 2013. Evaluation of recommended loci for DNA barcoding of Indian orchids. University of Delhi.
- Shreyasee Biswas. 2016. Effect of Elevated Levels of Arsenic on the Growth, Antioxidative Status and Secondary Metabolite of *Plumbago zeylanica* L., University of Delhi. (Under the Co-supervision of Prof. A. K. Bhatnagar).
- Deepak Singh. 2018. *In Vitro* Multiplication and Biochemical profiling of three Medicinal Plants, *Satyrium nepalense* D. Don, *Herminium lanceum* (Thunb. ex Sw.) Vuijk. and *Anacyclus pyrethrum* DC. University of Delhi.
- Deepshikha Chaterjee. 2018. Investigations on the role of Nitric oxide in flowering of *Arabidopsis*

*thaliana* (L). Heynh and Heavy Metal Stress Amelioration in the Medicinal Herb, *Withania somnifera* (L.) Dunal. University of Delhi.

Saloni. 2018. DNA Barcoding of Selected Medicinal Plants for Identification, Detection and Taxonomic Circumscription. University of Delhi.

Akansha Priya. 2019. Employing DNA Barcode Markers for Identification and Authentication of Herbal Samples of Traded Indian Medicinal Plants. University of Delhi.

Samvedna Chauhan. 2019. Role of Nitric Oxide in *In Vitro* Flowering of *Lemna gibba* L. University of Delhi.

### **Supervision of awarded M.Phil dissertations**

Narayan, Jai Prakash. 1997. Albino Plant Production in Anther Cultures: An Enigmatic Problem Impeding the Application of *In Vitro* Androgenesis in Improvement of Cereal Crops. University of Delhi.

Kalia, Sanjay. 1997. Development of Plants with Variant Gametophytic Genome in Anther Cultures: A Review. University of Delhi.

Sahay, Shalini. 2000. Isolated Microspore Culture of *Brassica*: A Review. University of Delhi.

Jain, Ruchi. 2001. Guar Gum as an Alternative Gelling Agent for Culture Media : A Preliminary Assessment. University of Delhi.

Rajnee, Km. 2001. Towards Micropropagation of two Ligneous Taxa: *Jacaranda acutifolia* Humb. & Bonpl. and *Choerospondias axillaries* B. L. Burt & A. W. Hill. University of Delhi.

Misra, Jitendra Kr. 2003. *In Vitro* Androgenesis: Events Preceding its Final Manifestation. University of Delhi.

Devi, Rajkumar Sanyaima. 2004. Cryopreservation of *In Vitro* Grown Axillary Shoot Buds of *Crataeva nurvala* Buch. Ham. University of Delhi.

Gangotri, W. 2007. Checking the Applicability of Guar Gum Derivatives and Cross-linked Guar Gum for culture Media. University of Delhi.

Devi, Lemis K. 2009. Preliminary Investigations on the Effects of Nitric Oxide on Senescence of Detached Cotyledonary Leaves of *Brassica juncea*. University of Delhi.

Saloni 2011. DNA barcoding of medicinal plants: an *in silico* approach. University of Delhi.

Samvedna Chauhan. 2012. Investigating the effects of nitric oxide on *in vitro* flowering of *Lemna gibba* L.: a long day plant. University of Delhi.

Shradha Nirwan. 2014. *In vitro* studies on important medicinal plants: Kalmegh (*Andrographis paniculata*) and Tilpushpi (*Digitalis purpurea*). University of Delhi.

## RESEARCH PAPERS PUBLISHED IN REFEREED/PEER REVIEWED JOURNALS

Chauhan S and Babbar SB. 2018. Identification of the constituents lacking in Bonner-Devirian medium that makes it incapable of supporting flowering of the duckweed, *Lemna gibba* L. *Vegetos* 31(4): 45-51.

Malik S, Priya A and Babbar SB. 2018. Employing barcoding markers to authenticate selected endangered medicinal plants traded in Indian markets. *Physiol Mol Biol Plants* DOI: 10.1007/s12298-018-0610-8.

Priya A, Malik S and Babbar SB. 2018. *In silico* route towards development of DNA barcodes of Indian medicinal plants in trade. *Med Plants* 10(4):285-294.

Malik S, Mir BA, Singh HK, Chaudhary M, Raina SN and Babbar SB. 2018. DNA Barcodes distinguish *Withania somnifera* and *Withania ashwagandha*. *Proc Nat Acad Sci, India Section B: Biol Sci.* 88(4), 1413-1424. doi:10.1007/s40011-017-0879-3

Chatterjee D, Biswas S and Babbar SB. 2018. Impact of cadmium and nitric oxide on withanolides and elemental contents of the medicinal herb, *Withania somnifera* (L.) Dunal. *Med Plants* 10(1): 65-74.

Chowlu, K., Malik, S., Kumar, P. And Babbar, S.B. 2017. *Oberonia bopannae* (Orchidaceae: Epidendroideae: Malaxideae), a new species from Arunachal Pradesh (India), with notes on allied species. *Phytotaxa* 316: 285-291.

Singh DS, Priya A, Malik S, Kapoor R and Babbar SB. 2017. Isolation and identification of endophytic fungi from two medicinally important orchids, *Satyrium nepalense* D. Don and *Herminium lanceum* (Tunb. Ex Sw.) Vujk. *Med Plants* 9 (2): 95-101.

Malik S, Mir BA, Singh HK, Chaudhary M, Raina SN and Babbar SB. 2017. DNA Barcodes distinguish *Withania somnifera* and *Withania ashwagandha*. *Proc Nat Acad Sci, India Section B: Biol Sci.* doi:10.1007/s40011-017-0879-3

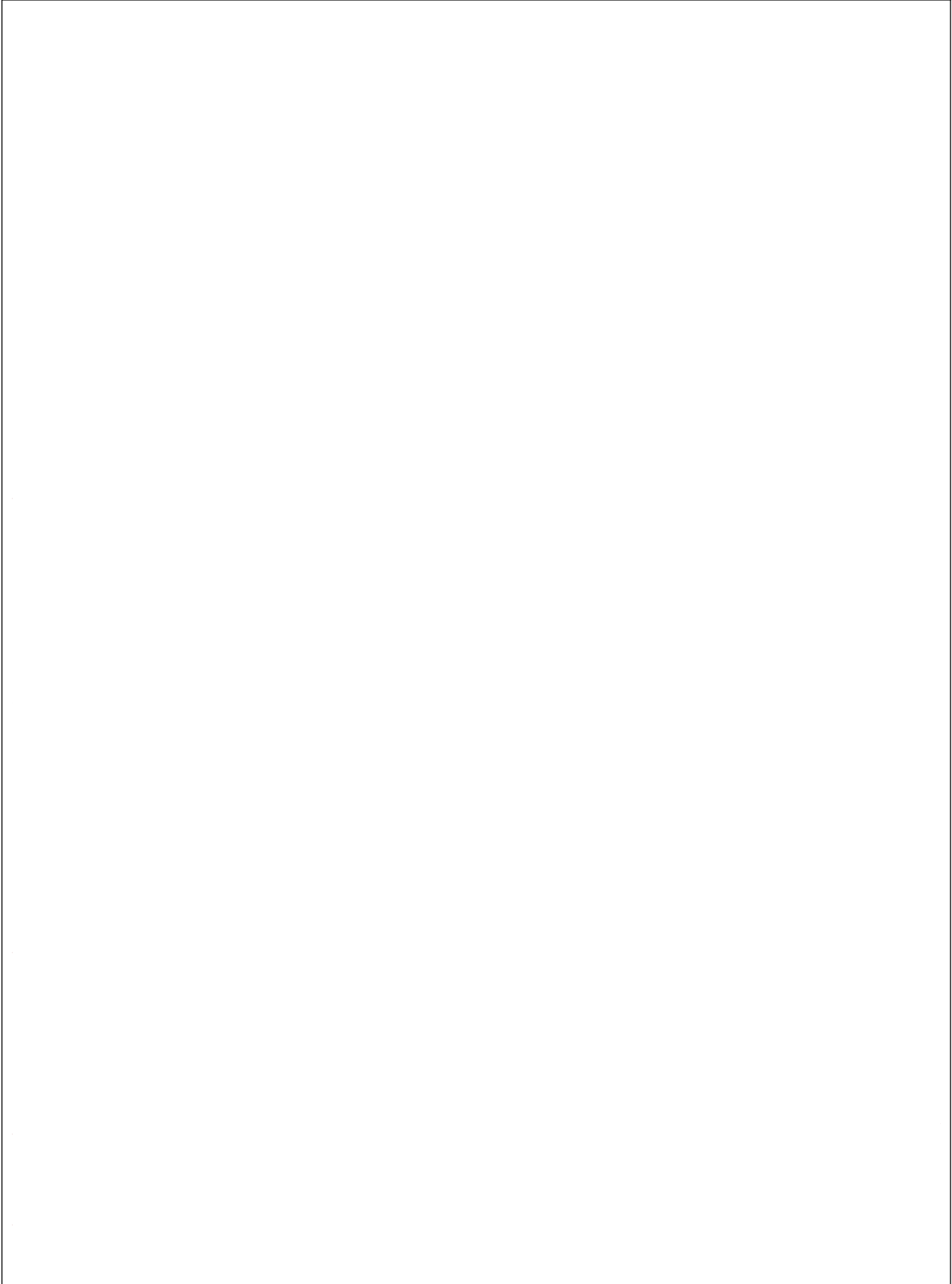
Parveen I, Singh HK, Malik S, Raghuvanshi S and Babbar SB. 2017. Evaluating five different loci (rbcl, rpoB, rpoC1, matK and ITS) for DNA barcoding of Indian orchids. *Genome* DOI: 10.1139/gen-2016-0215

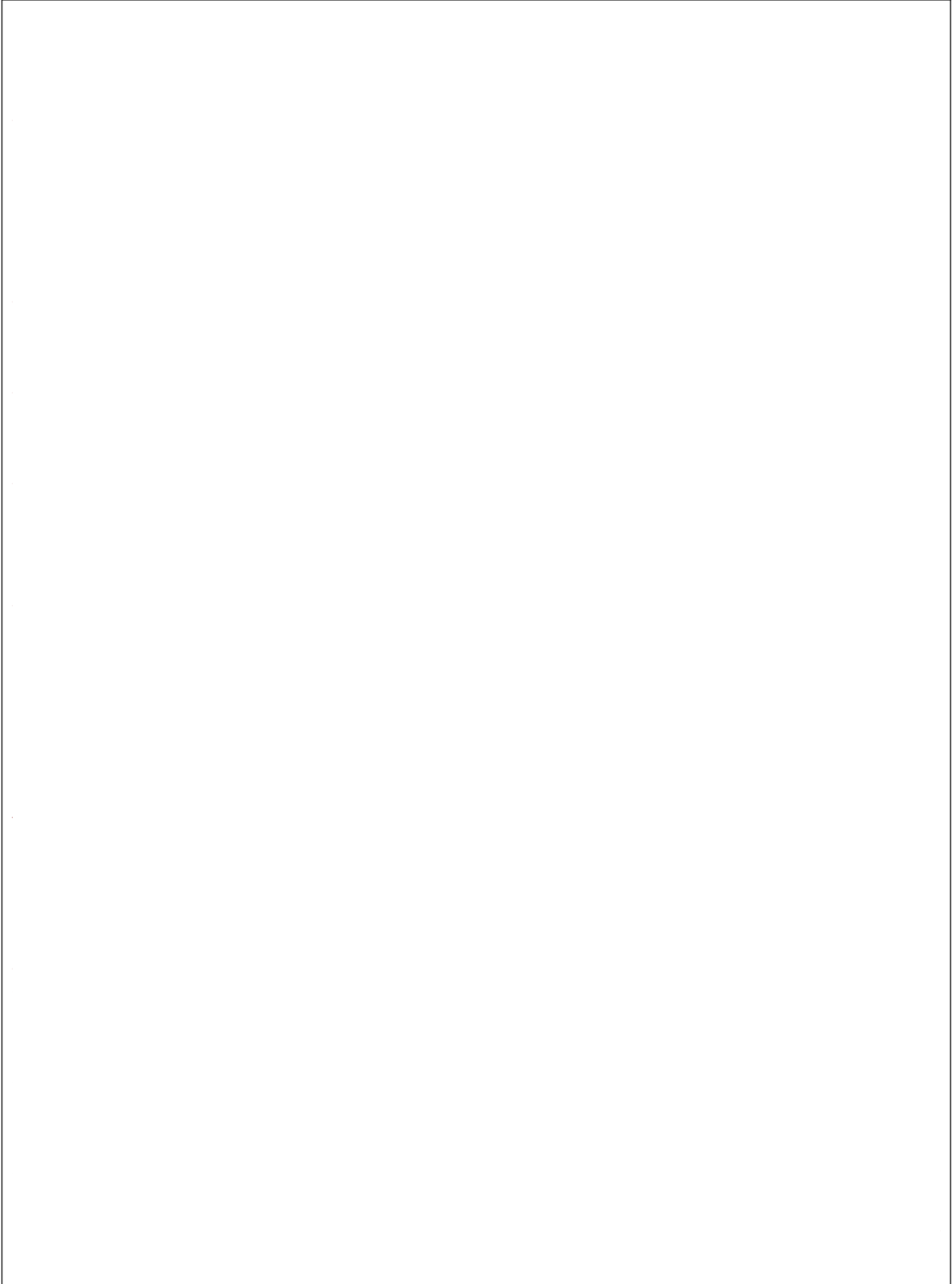
Singh, D.K. and Babbar, S.B. 2016. *In vitro* propagation and chemical profiling of *Herminium lanceum* (Thunb. ex Sw.) Vuijk, a medicinally important orchid, for therapeutically important phenolic acids. *Plant Biotechnology In Press.*

Babbar, S. B. and Singh, D.S. 2016. Protocols for *In Vitro* Mass Multiplication and Analysis of Medicinally Important Phenolics of a Salep Orchid, *Satyrium nepalense* D.Don ("Salam Mishri"). In: Jain, S. M. (Ed.) *Protocols for In Vitro Cultures and Secondary Metabolite Analysis of Aromatic and Medicinal Plants*, Second Edition. *Methods in Molecular Biology* 1391: 1-11.

Singh, D.S.; Nirwan, S. and Babbar, S.B. 2015. Micropropagation of *Anacyclus pyrethrum* and chemical profiling of the regenerated plants for pellitorine, the active principle. *Plant Cell, Tissue & Organ Culture* **122**: 249-255.

Khurana, A.; Kumar, R. and Babbar, S.B. 2014. Nitric oxide is involved in salicylic acid-induced flowering of *Lemna aequinotialis* Welw. *Acta Physiologiae Plantarum* **36**: 2827-2833.









**POPULAR ARTICLES:**

Babbar, S.B. 1996. Prions: the infectious agents apparently lacking nucleic acids. *The Botanica* **46**: 231-236.

Babbar, S.B. and Jain, N. 1997. Gene silencing: a bane or boon. *The Botanica* **47**: 53-57.

Walia, N. and Babbar, S.B. 1998. 'Porphyria' – a metabolic disorder makes no distinction between plants and animals. *The Botanica* **48**: 129-134.

Babbar, S.B. and Ram, M. 1999. Synchronous mass spawning in siphonous algae: a reproductive strategy for efficient self propagation. *The Botanica* **49**: 116-119.

Walia, N. and Babbar, S. B. 2000. Biosensors. *The Botanica* **50**: 119-124.

Sahay, S. and Babbar, S. B. 2000. Biological warfare: concepts and implications. *The Botanica* **50**:112-128.

Ram, M. and Babbar, S. B. 2002. 'Raktbeej' and *Bryopsis*: fantasy and reality! *The Botanica* **51**: 67-71.

Singh, H.K; Malik, S. and Babbar, S.B. 2015. DNA barcoding: applications and future prospects. *Botanica* **64&65**:75-79.

#### Publications in the Last One Year

#### Conference Organization/ Presentations (in the last three years)

##### Conference Presentations/Participation

Delivered an invited talk entitled, "Species Identification sans Physical Presence: DNA BARCODING - Concept, History, Applications, Methodology, and Developments in Plants" in One-day Workshop for TY B.Sc. Botany 2016-2017 organized at R. J. College of Arts, Science and Commerce, under the aegis of Board of Studies in Botany, University of Mumbai, Mumbai, on June 11, 2016.

Delivered an invited lecture entitled, "DNA BARCODING: Molecular Method for *In Absentia* Identification of Species" on June 11, 2016 in a Refresher course for teachers organized by the University of Mumbai at Kalina Campus, Mumbai.

Delivered the keynote address in the inaugural session of the National workshop on "DNA Barcoding: Molecular Biology and Phylogenetic Taxonomy" organized by the SIT Group of Institutions at SIT College, SIDHI, M.P. on October 1, 2016. Delivered an invited lecture entitled, "DNA Barcoding: Fundamentals and Applications" in the National Conference on "Digitization of Biodiversity by DNA Barcodes" organized by the Department of Zoology, DR. H.S. Gour University, Sagar, M.P. on February 12, 2017.

Delivered an invited lecture entitled, "DNA Barcoding for Validating Botanical Identities of Herbals and Taxonomic Delimitations" in the National Conference on "Understanding Himalayan Phytodiversity in a Changing Climate" organized by the Botanical Survey of India, Sikkim Himalayan Regional Centre,

Gangtok, Ministry of Environment, Forest & Climate Change, in collaboration with East Himalayan Society for Spermatophyte Taxonomy and Sikkim University, Gangtok on March 11, 2017.

Delivered a keynote address entitled, "Species Identifications *sans* Physical Presence: Concept, History, Methodology, Developments in Plants and Applications', In the National Seminar on "Recent Trends in Genomics and Metabolomics" organized by the School of Biotechnology, University of Jammu, Jammu on March 17-18, 2017.

Chaired a session and Delivered an invited lecture entitled, "Orchids provided proof-of-concept for DNA barcoding in plants and paved way for the application of technology for establishing the botanical identities of herbals and taxonomic delimitations" on March 24, 2017 in the National Conference cum Workshop on "Recent Trends in Biology, Culture, Conservation, Commercialization and Sustainable Utilization of Medicinally And Floriculturally Important Orchids & Orchid Show" organized jointly by the Orchid Society of India and Graphic Era University at Graphic era University Dehradun from March 24-25, 2017.

Delivered an invited lecture on "DNA BARCODING: Concept, History, Methodology and Applications" in Miranda House, University of Delhi on February 19, 2018.

Chaired and delivered the lead lecture entitled, "Possible Role of DNA Barcoding, Plant Biotechnology, Phylogenetic Analysis and Chemical Profiling in Conservation and Sustainable Utilization of Medicinal Plants" in the Botany section of the Uttarakhand Science and Technology Congress held at Vigyan Dham, Dehradun from March 8-10, 2018.

Delivered an invited lecture on "Orchids Provided Proof-of-Concept for the Applicability of DNA Barcoding to Plants" on March 16, 2018 in the National Conference cum Workshop on "Current Trends in Conservation, Sustainable Development, Biological and Social Benefits of Medicinally and Floriculturally Significant Orchis and Orchid Show" organized by the Orchid Society of India (TOSI) jointly with and at Regional Agricultural Research Station, Kerala Agricultural University, Ambalavayal, Waynad, Kerala from March 16-18, 2018.

Delivered a plenary lecture on, "DNA Barcoding, Plant Biotechnology, Phylogenetic Analysis and Chemical Profiling for Conservation and Sustainable Utilization of Medicinal Plants" on March 23, 2018 in the National Conference on "organized at Swami Shradhanand College, University of Delhi.

Delivered an invited lecture on "DNA barcoding for identification and detection of species: concept, history, methodology and applications" in Acharya Narendra Dev College, University of Delhi on October 24, 2018.

As a resource person delivered two lectures on various aspects of DNA Barcoding of Plant on December 7, 2018 in the Refresher Course in Botany organized by the UGC-Human Resource Development Centre, Punjabi University, Patiala.

Delivered a plenary lecture entitled, "Orchids Provided Proof-of-Concept for the Applicability of DNA Barcoding to Plants and Paved Way for DNA Barcoding of Traded Indian medicinal Plants" in the "National Conference cum Workshop on "Recent Advances in Orchidology with Special Emphasis on Biology, Climate Change, Conservation, and Commercialization of Floriculturally and Therapeutically Important Taxa and Orchid Show" organized by The Orchid Society of India (TOSI) during February 15-17, 2019 at ICAR-CIARI, Port Blair jointly with NHM, Directorate of Agriculture, Andaman and Nicobar

Administration, Port Blair; ICAR-Central Inland Agricultural Research Institute (CIARI), Port Blair; & BSI-Kolkata, on February 16, 2019 and chaired a session on February 15, 2019 in the same conference.

Delivered a valedictory invited lecture on “Origin, Evolution and Diversity of Plastids” at Deen Dayal Upadhyaya College, University of Delhi on February 21, 2019.

As a resource person delivered a lecture entitled, “DNA barcoding for *in absentia* identification and detection of species: concept, history, methodology and applications” on July 4, 2019 in refresher course on Life Sciences organized by CPDHE, University of Delhi.

Delivered an invited lecture entitled as above in the Department of Botany, Mohanlal Sukhadia University, Udaipur on July 17, 2019.

Delivered an invited lecture entitled as above in the Department of Biotechnology, Pondicherry University, Pudducherry on July 24, 2019.

Delivered two lectures entitled, “DNA Barcoding 1: Concept, History, Methodology and Developments in Plants” and “DNA Barcoding 2: Applications with Some Illustrative Examples” on August 5, 2019 in the Department of Biotechnology, Bodoland University, Kokrajhar, Assam.

Delivered as a Resource person two lectures entitled, “DNA Barcoding, a Molecular Diagnostic Tool for Identification and Detection of Species I. Concept, History, Methodology and Developments in Plants” and DNA Barcoding, a Molecular Diagnostic Tool for Identification and Detection of Species II. Applications with Some Illustrative Examples” in a Work shop on “DNA Barcoding and Metagenomics” organized by and at Kirori Mal College, University of Delhi on September 19, 2019.

Delivered two invited lectures entitled, “Providing Molecular IDs to Plants through DNA Barcoding for *In Absentia* Identification and Detection of Species I. *Concept, History, Methodology and Developments in Plants* and II. *Applications with Some Illustrative Examples*” at Chaudhary Bansilal University, Bhiwani on October 19, 2020.

As a resource person delivered two lectures on “Origin, Evolution and Diversity of Microscopes” in the workshop organized by Department of Botany, Miranda House (under the aegis of DBT Star College Scheme) in collaboration with Department of Botany, University of Delhi on December 11 & 12, 2019 at the Department of Botany, University of Delhi.

Participated and delivered a lead lecture entitled, “DNA Barcoding: Providing Proof for its Applicability to Plants, Authentication of Medicinal Plants and Taxonomic Circumscription” on February 13, 2020 in the International Symposium on “Plant Taxonomy and Ethno-Botany (BSIPTE-2020)” organized by Botanical Survey of India during 13-14th Feb. 2020 at Kolkata, West Bengal, India.

#### Research Projects (Major Grants/Research Collaboration)

**Name of Project:** Investigations on *In Vitro* Morphogenetic Potential of Explanted Tissues and Organs of Guava (*Psidium guajava* L.)

**Position in Project:** Principal Investigator

**Period:** 1986-1987

**Funding Agency:** University Grants Commission

**Grant:** Rs.15,000.00

**Name of Project:** *In Vitro* Production of Guava (*Psidium guajava*) Plants through Somatic and Microspore Embryogenesis

**Position in Project:** Principal Investigator

**Period:** 1995-1998

**Funding Agency:** University Grants Commission

**Grant:** Rs.3,63,500-00+PA(1)

**Name of Project:** Selection of Stress Tolerant and Pathogen Resistant Somatocloned and Gametocloned of *Carthamus tinctorius* through Tissue Culture

**Position in Project:** Principal Investigator

**Period:** 2001-2004

**Funding Agency:** University Grants Commission

**Grant:** Rs.4,20,048-00+Pa(1)

**Name of Project:** INCO-DC Project on Improved Oilseed *Brassica* Crops through Breeding, Mutagenesis and Transformation in (Doubled) Haploid Plant Material

**Position in Project:** Co-Principal Investigator

**Period:** 1999-2002

**Funding Agency:** European Commission (INCO-DC Project)

**Grant:** Rs.22,75,534-00

**Name of Project:** Production of Gynogenic Haploids of Selected Female and Male Clones and Reproductive Biology of Mulberry

**Position in Project:** Principal Investigator

**Period:** 2002 – 2005

**Funding Agency:** Department of Biotechnology, Government of India

**Grant:** Rs.9,64,000-00

**Name of Project:** DNA Barcoding of Selected Species of *Dendrobium*, an Orchid, for Checking the Applicability of the Concept to Plants

**Position in Project:** Project Coordinator and Principal Investigator

**Period:** 2007 – 2010

**Funding Agency:** Department of Biotechnology, Government of India

**Grant:** Rs.56,24,000-00

**Name of Project:** DNA Barcoding of Endangered Indian Medicinal Plants

**Position in Project:** Principal Investigator

**Period:** 20012 – 2015

**Funding Agency:** Indian Council of Medical Research, New Delhi

**Name of Project:** Development of high output suspension cultures of selected medicinal plants as perennial source of herbals and biomolecules.

**Position in Project:** Principal Investigator

**Period:** 20012 – 2015

**Funding Agency:** Indian Council of Medical Research, New Delhi

## Awards and Distinctions

Recipient of:

National Merit Scholarship of the Ministry of Education & Social Welfare, Government of India, from 1975 to 1977.

All India Junior Research Fellowship of the University Grants Commission, New Delhi from 1977 to 1979.

All India Senior Research Fellowship of the University Grants Commission, New Delhi from 1979 to 1981.

Senior Research Fellowship of the Council of Scientific & Industrial Research, New Delhi from 1981 to 1982.

Research Associate of the University Grants Commission, New Delhi from Nov 1983 to Jan 1984.

## Association With Professional Bodies

Reviewer for many National and International journals

### **Advisory**

Member, Content Advisory Committee for Biology, Distance Learning Division, Department of Secondary & Higher Education, Ministry of Human Resource Development, Government of India, 2006-2008.

Member, Syllabus Revision Committee as an outside expert for the Course LSC-01 (Cell and Molecular Biology) of the Faculty of Science, Indira Gandhi National Open University, New Delhi.

### **Memberships**

Life Member, Delhi University Botanical Society, Department of Botany, University of Delhi, Delhi.

Life Member, Society for Environmental Scientists, Delhi.

Life Member, Eco-transformation Center: Center for Environment and Rural Upliftment, Delhi.

Life Member, Society for Plant Biochemistry and Biotechnology, New Delhi.

Life Member, International Society of Plant Morphologists, Delhi.

Life Member, The Orchid Society of India, Chandigarh.

Life Member, Society for Conservation and Resource Development of Medicinal Plants, New Delhi.

Member, Committee of Courses constituted by the University of Delhi for the revision and semesterization of the undergraduate course on Agro-chemicals and Pest Management (2011).

Member-Secretary, University Units Complaint Committee (Faculty of Science), University of Delhi (2011-12).

Member, Governing Body, Ramanujam College, University of Delhi (2012 - 2014).

Member, Governing Body, Maharaja Agrasen College, University of Delhi (2012 -2014).

Chairman, Governing Body, Maharaja Agrasen College, University of Delhi (2014)

E.C. nominee on the Management Committee of Mansarovar Hostel, University of Delhi (2012- )

Member, Board of Post-Graduate Studies in Biotechnology and Bioinformatics, North Eastern Hill University (NEHU), Shillong, Meghalaya (2014-17).

Member, Governing Body, Hindu College, University of Delhi (2014- ).

Member, Executive Council, University Sports Council, University of Delhi (2016 - ) .

Chairman, Procurement Committee, School of Open Learning, University of Delhi (April 2014 –

Chairman, 9<sup>th</sup> Annual Flower Show Committee, University of Delhi (2017).

Member, Governing Body, Laxmibai College, University of Delhi (March 30, 2017 - ).

Chairman, Governing Body, Laxmibai College, University of Delhi (April 2017 - 2018 ).

Member Syllabus Revision Committee (SRC) for UG and PG syllabus in Botany of Sikkim University (2017).

Life Member, East Himalayan Society for Spermatophyte Taxonomy. Life Member, Society for Conservation and Resource Development of Medicinal Plants, New Delhi.

Chief Election Officer, Delhi University Students' Union (DUSU) Elections 2017-18.

Chairman, Annual Flower Show 2018, University of Delhi.

President, East Himalayan Society for Spermatophyte Taxonomy (2018-2019).

Member, Apex Committee of National Certification System for Tissue Culture Raised Plants (NCS-TCP), Department of Biotechnology, Ministry of Science and Technology, Government of India (2018 -).

Member, Project Monitoring and Evaluation Committee (PMEC) of National Certification System for Tissue Culture Raised Plants (NCS-TCP), Department of Biotechnology, Ministry of Science and Technology, Government of India (2018 -).

Member, Institutional Biosafety Committee, Pondicherry University, Pondicherry 2018 - ).

Member, School Board of Sciences, Nagaland University, (2018- ).

Member, Departmental Research Council of Botany, MS Brij University, Bharatpur (2018 -).

Member, Board Research Studies, Faculty of Science, University of Delhi (2018 - ).

EC Nominee, Managing Committee of International Student's House, University of Delhi (May 8, 2019 – April 30, 2021).

University Nominee on Governing Body of Deen Dayal Upadhyaya College, University of Delhi (March 2020 - ).

University Nominee on Governing Body of Vivekananda College, University of Delhi (March 2020 - ).

Member, Editorial Board, "Vegetos": An International Journal of Plant Research and Biotechnology

**Office Bearer**

Staff Advisor, Delhi University Botanical Society, Department of Botany, University of Delhi, 1994-2002, 2007-2008.

Councilor, Executive Council of the International Society of Plant Morphologists (ISPM, 2011-2015).

## Signature of Faculty Member

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