




## Faculty Details proforma for DU College Web-site



Title	Dr.	First Name	Sumit	Last Name	Sahni	Photograph
Designation		Assistant Professor				
Address		Department of Botany Acharya Narendra Dev College University of Delhi Govindpuri, Kalkaji New Delhi-110019				
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Residence						
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Email/ Web-Page		<a href="mailto:sumitsahni@andc.du.ac.in">sumitsahni@andc.du.ac.in</a> , <a href="mailto:sumit.sumanks20@gmail.com">sumit.sumanks20@gmail.com</a> <a href="https://sites.google.com/view/sumitsumanks/home">https://sites.google.com/view/sumitsumanks/home</a>				
Educational Qualifications						
Degree		Institution			Year	
Ph.D.		Jamia Hamdard (Hamdard University), Delhi			2014	
PG		Jamia Hamdard (M.Sc. Environmental Botany)			2005	
UG		University of Delhi (B.Sc. (Hons.) Botany)			2003	
Any Other Qualification		Institute of Management and Technology, Ghaziabad (PGDM in Finance and Marketing)			2009	
Career Profile						
Organisation/Institution		Designation		Duration		Role
MRPC		Research Scientist		March 2006- August 2009		R&D for value addition of rapeseed-mustard, consultancy to industry and farmer extension services
Sri Aurobindo College (M) University of Delhi		Assistant Professor		July 2013-April 2015		Teaching and other academic works
Acharya Narendra Dev College University of Delhi		Assistant Professor		August 2015-Till Date		Teaching, Research, other academic and official works
Administrative Assignments						
Areas of Interest / Specialization						
<ul style="list-style-type: none"> <li>● Genetic Engineering</li> <li>● Genomics</li> <li>● Translational Biology</li> <li>● Molecular Biology</li> </ul>						

- Industrial and Environmental Microbiology
- *In-silico* screening via molecular docking

#### Subjects Taught

- Genetics
- Industrial and Environmental Microbiology
- Molecular Biology
- Plant Biotechnology
- Analytical Techniques in Plant Sciences
- Economic Botany
- Plant Anatomy

#### Research Guidance

- Supervised 5 undergraduate students in 03 different Summer Research Projects under ELITE programme

#### Publications Profile

#### Research Articles

- Soni K, **Sahni S**, Abdin MZ and Narula A 2015 Conservation and enhanced tylophorine through in vitro propagation and precursor feeding in *Tylophora indica*-an endangered medicinal plant. International Journal of Pharma and Bio Sciences 6(4): (B) 9 – 18.
- **Sahni S**, Hussain S, Narula A, Srivastava PS and Singh HB 2013 Ectopic expression of *Atleafy* in *Brassica juncea* cv. Geeta for early flowering. Physiol Mol Biol Plants 19:455-459.

#### Review Article

- Banerjee R, **Sahni S**, Tickoo S and Singh HB 2008 Dephytinization of Rapeseed/Mustard Meals. *Brassica* 9:1-11.

#### Proceeding Articles

- **Sahni S**, Tickoo S, Sindhu VK and Singh HB 2007 Development of technology for detoxification of Indian mustard deoiled cake for livestock and poultry consumption. In 12<sup>th</sup> International Rapeseed Congress. Sustainable Development in Cruciferous Oilseed Crops Production, Vol.V, pp.299-302, Wuhan, China.
- Tickoo S, Sindhu VK, **Sahni S** and Singh HB 2007 Standardization of reaction kinetics for enzymatic hydrolysis of Indian mustard seed oil for extraction of erucic acid. In 12<sup>th</sup> International Rapeseed Congress. Sustainable Development in Cruciferous Oilseed Crops Production, Vol.V, pp. 209-212, Wuhan, China.
- Tickoo S, Sindhu VK, **Sahni S** and Singh HB. Screening of Indian mustard genotypes for heavy metal accumulation tendency under in-vitro conditions. In 12<sup>th</sup> International Rapeseed Congress. Sustainable Development in Cruciferous Oilseed Crops Production, Vol.V, pp. 65-68, Wuhan, China.

### Book and Book Chapters

- **Sahni S**, nee Soni KK, Hussain S, Ali Z, Narula A, Singh HB and Srivastava PS. 2013. Genetic perspective of Somatic Embryogenesis in Aslam J, Srivastava PS, Sharma MP eds. Somatic Embryogenesis and Gene Expression. Narosa Publishing House, New Delhi
- Aslam J, Siddiqui ZH, Ali Z, Hussain S, Roy G, **Sahni S**, Kusumanjali, nee Soni KK, Narula A, Das S, Mujib A, Sharma MP and Srivastava PS. 2013. Somatic Embryogenesis in Ornamentals and Fruit Yielding Plants in Aslam J, Srivastava PS, Sharma MP eds. Somatic Embryogenesis and Gene Expression. Narosa Publishing House, New Delhi
- Sharma S and **Sahni S**. 2016. Osmotin gene overexpression in *Nicotiana* for abiotic stress tolerance published by LAP LAMBERT Academic Publishing, Saarbrücken, Germany.

### Conference / Presentations /Workshops

#### Workshop/Trainings Attended (Selected)

- Attended Faculty Development Programme organized by Ramanujan College, University of Delhi on “Managing Online Classes and Co-creating MOOCs” under PMMMMNMTT in April-May 2020
- Attended National Webinar entitled “ ICT enabled Higher Education in India: Challenges and Opportunitites” organized by Guru Angad Dev Teaching Learning Centre SGTB Khalsa College, University of Delhi under PMMMMNMTT in April 2020.
- Attended Faculty workshop on “**DNA Barcoding and Metagenomics**” being organized by Department of Botany, Kirori Mal College under DBT star scheme in September, 2019.
- Attended the Workshop on “Reproductive Biology of Angiosperms” organized by Institute of lifelong Learning, UDSC and Department of Botany, Dyal Singh College, Delhi university in March 2015.
- Volunteered in organizing a workshop on “Plant Tissue Culture and Improvement of Medicinal Plants” for Senior Secondary teachers of Delhi-region schools organized by XV International Genetics Congress Trust at Department of Biotechnology Jamia Hamdard in 2010.
- Participated in training program entitled ‘Molecular Marker Technology or Crop Improvement’ organized by Centre for Excellence in Genomics (CEG), International Crop Research Institute for Semi-Arid Tropics (ICRISAT), Hyderabad, India in 2009.
- Participated in the “Training Program on Tissue Culture, Transgenic Technology and Biotechnology organized by Centre for Transgenic Plant Development, Department of Biotechnology, Jamia hamdard in 2009.
- Attended training on “Marker assisted selection and breeding to develop new varieties” by Directorate of Rice Research (DRR), Hyderabad, India in 2008.

#### Seminars/Conferences/Symposium/Meetings Attended (Selected)

- Participated in deliberations of Annual Seminar of XIIIth Plant Tissue Culture Association in 2014 in IISER, Pune.
- Presented the research finding as poster in National Seminar on Plant Biotechnology: Challenges and Opportunities in 21<sup>st</sup> century organized by DBT, Jamia Hamdard in 2014.
- Actively participated in deliberations of 7<sup>th</sup> Annual Convention of ABAP& International

Conference on Plant Biotechnology, Molecular Medicine and Human Health at University of Delhi, South Campus in 2013.

- Presented Poster at International Conference at GGS Indraprastha University, New Delhi in 2013.
- Poster presentation at International Conference at Kakatiya University, Warangal, Andhra Pradesh in 2013.
- Actively participated in deliberations of National Seminar on Proteomics based Biomarkers for Animal and Plant Diseases organized by Department of Biotechnology, Jamia Hamdard, New Delhi in 2013.
- Presented poster in “National Symposium on Recent Advances in Plant Tissue Culture and Biotechnological Researches in India” and 31<sup>st</sup> Annual Meet of Plant Tissue Culture Association (PTCA) in M.N. Institute of Applied Sciences in 2011
- Actively participated in Groupe Consultatif International de Recherche sur le Colza (GCIRC) Technical Meeting held at Manesar, Haryana, India in Feb, 2009.
- Presented the research findings in the conference on “Emphasis for the research and development of Rapeseed-Mustard to increase production” organized by Banaras Hindu University, Varanasi, U.P., India in Nov, 2008.
- Attended the conference on “All India Coordinated Research Project on Rapeseed-Mustard” organized by Orissa University for Agriculture and Technology (OUAT), Orissa, India in 2008.
- Participated in the deliberations of meeting of National Research Centre for Plant Biotechnology, Canada NRC-PBI and Department of Biotechnology (DBT), Government of India on ‘Collaborative Research for Oilseed Improvement’ held at New Delhi, India in Feb, 2008.
- Participated in the workshop on ‘Future Vistas for Food Safety’ organized by Ministry of Food Processing Industries (MOFPI), Government of India and Quality Council of India (QCI) in September, 2007.
- Actively participated in the deliberations of Conference on “Current Scenario of Rapeseed-Mustard in India” organized by MRPC in Jaipur in 2006.
- Attended the conference on “All India Coordinated Research Project on Rapeseed-Mustard” organized by CCS Haryana Agricultural University, Hisar, Haryana, India in 2006.
- Actively participated in the National Botanical Conference 2004 held at Jamia Hamdard, New Delhi, India.

**Invited Lectures:**

- e-lecture given LIVE on VYAS channel and e-Video uploaded on “Introduction to Enzymes” on Youtube Channel ‘Consortium for Educational Communication’ (CEC)
- Invited as a Resource Person in 3 days workshop “Learning Science : The Do It Yourself” Way organized in collaboration with National Bal Bhavan, under the aegis of DBT Star College Scheme.
- Resource person in RBPT based workshop “Microbial Techniques- An interdisciplinary Workshop” for the Undergraduate students in January 2018.
- Invited as a Resource Person in National Symposium on “Contemporary Environmental Concerns 2018” organized by Acharya Narendra Dev College, University of Delhi on March 15-17, 2018.

Research Projects (Major Grants/Research Collaboration)
Awards and Distinctions
<ul style="list-style-type: none"> <li>• Got All India <b>14<sup>th</sup> Rank</b> in CSIR-UGC conducted National Eligibility Test (NET) in 2012.</li> <li>• Awarded <b>First Prize</b> in Poster presentation at an International Conference held at Kakatiya University, Warangal, Andhra Pradesh, India in 2013.</li> </ul>
Association With Professional Bodies
<ul style="list-style-type: none"> <li>• Life time membership of The Indian Science Congress Association, Kolkata, India. Membership No. L28145</li> </ul>
Other Activities
<ul style="list-style-type: none"> <li>• Appointed as Convenor/Member of the committee for question paper setting of BSc (H) Botany students by University of Delhi.</li> <li>• Appointed as External examiner to conduct practical examination in different colleges by University of Delhi.</li> <li>• Organised the visits of undergraduate students to Delhi Jal Board Sewage treatment plant, Sulabh Toilet Complex and Museum and Central Pollution Control Board (CPCB).</li> <li>• Organised the visits for students to various national Institutes as part of their curriculum</li> <li>• Worked as an active member in organising various events in the college in the capacity of Member, Annual Committee of Acharya Narendra Dev College</li> <li>• Worked as an active member of NSS committee and conducted various activities in the NSS wing of Acharya Narendra Dev College</li> <li>• Worked as a core member of the team to organize sports meet of Sri Aurobindo College in March 2014.</li> <li>• Co-convenor, Garden Committee of College since 2019</li> <li>• Member, Cultural Committee since 2018</li> <li>• Member, Entrepreneur Development Cell since 2018</li> <li>• Member, Editorial Committee since 2019</li> </ul>

Signature of Faculty Member