



**ZAKIR HUSAIN DELHI COLLEGE**  
(University of Delhi)

**Faculty Details**

(Please Fill the form and Email it to [website@zh.du.ac.in](mailto:website@zh.du.ac.in))

<b>Title</b> Dr.	<b>First Name</b> Babeeta C	<b>Last Name</b> Kaula	
<b>Designation</b>	Associate Professor		
<b>Address</b>	Department of Botany Zakir Husain Delhi College University of Delhi JLN Marg Delhi-110002		
<b>Phone Number</b>	<b>Office</b>	011-23215906	
	<b>Residence-</b>	-	
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<b>Web Page</b>			
<b>Educational Qualification</b>			
<b>Degree</b>	<b>Institution</b>	<b>Year</b>	
Ph.D	University of Delhi	1997	
M.Phill	University of Delhi	1992	
M.Sc	University of Kashmir	1987	
B.Sc	University of Kashmir	1985	
<b>Career Profile</b>			
<b>Designation</b>	<b>Teaching Experience</b>	<b>Institution</b>	
Associate Professor	25 Years	Zakir Husain Delhi College, University of Delhi	
<b>Administrative Assignments</b>			
➤ Sub-committee (Under the aegis of IQAC)- Member: October 9, 2023			

- **University of Delhi-Centenary Celebrations Valedictory -Committee Member: June 2023**
- **IQAC Committee –Member: November 2,2021 – June 13,2022**
- **IQAC Committee –Member: November 30, 2015 (For two years)**
- **Garden and Greening Committee: Convener: December 2020 – (Till 13/10/2023)**
- **Garden and Greening Committee: Member: September 1997- November 2020**
- **Website Committee-Member: :2020-21,2021-22, 2022-23(Till 13/10/2023)**
- **Prospectus committee- Member :2021-22 and 2022-23**
- **Azadi Ka Amrit Mahotsav Committee-Member :2022-23**
- **Organized Tree Plantation in the College under: Shatabdi Vriksharopan 2022, DU**
- **Dept. of Botany, Teacher-in-charge:2022-23**
- **Botanical Society “Nargis”-President:2021-22**
- **Botanical Society “Nargis”-President: 2023-24**
- **Arts and Culture Society: Convener :2011-2017**
- **Admission Committee-Member 2011-17, 2022-23**
- **College Annual Day-Member 2011-17, 2020-21**
- **Proctorial Board –Member 2011-12, 2012-13**
- **Convocation Committee-Member: 2011- 2015**
- **Awards Selection Committee for students -Member**
- **Nodal person for NII- Zakir Husain Delhi College Science Setu Program (2014-16)**

<b>Areas of Interest / Specialization</b>
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Crop genetics
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<b>Subjects Taught</b>
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Genetics, Molecular Biology and Plant Systematics
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<b>Research Guidance</b>
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None
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<b>Publications Profile</b>
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- **Chrungu, B.**, Verma, N., Mohanty, A. *et al.* Production and characterization of interspecific hybrids between *Brassica maurorum* and crop brassicas. *Theor Appl Genet* **98**, 608–613 (1999). <https://doi.org/10.1007/s001220051111>
- Aparajita Mohanty, **Babita Chrungu**, Nidhi Verma and K R Shivanna. Wide Hybridization between *Hirschfeldia incana* L. (Lagreze Fossat) and *Brassica carinata* Braun: Towards Development of New Genetic Resource Journal of Plant Genetic Resources, Vol. 20, No.3 (2007)
- Aparajita Mohanty, **Babeeta Chrungu**, Nidhi Verma and Kundaranahalli Ramalingaiah Shivanna. Broadening the Genetic Base of Crop Brassicas by Production of New Intergeneric Hybrid. *Czech J. Genet. Plant Breed.*, 45, 2009 (3): 117–122
- Bharti Sarin, Juan Pedro Martín, **Babeeta Chrungu Kaula**, Aparajita Mohanty, "Chloroplast DNA Variations in Wild Brassicas and Their Implication in Breeding and Population Genetics Studies", *Scientifica*, vol. 2015, Article ID 952395, 7 pages, 2015. <https://doi.org/10.1155/2015/952395>
- Sangeeta Pandita, **Babeeta Kaula** and Sarita Passey. Use of Weeds and Agro-Based Raw Materials and their Blends for Handmade Paper Making DU Journal of Undergraduate Research and Innovation 2015 Volume 1, Issue 3 pp 169-179
- J. Dinakaran, N.S. Abbas, Shvetambri Arora, Sujata Bhardwaj and **Babeeta C Kaula**. Assessment of Heavy Metals in Ground Water of Different Locations of National Capital Region, Delhi, India Current World Environment [www.cwejournal.org](http://www.cwejournal.org) 2021, Vol. 16, No. (1) 3SSN: 0973-4929DOI: <http://dx.doi.org/10.12944/CWE.16.1.14>
- N. S. Abbas, Sudiksha Gupta, Divya Suri, Sujata Bhardwaj and **Babeeta C. Kaula**. Incredible Role of Spices in Diet – An Indian Perspective Res. Jr. of Agril. Sci. 2021, 12(2): 483–488
- Julie Thakur, N.S. Abbas, Sujata Bhardwaj and **Babeeta C Kaula**. Biotechnological tools in the propagation and conservation of threatened species: An overview Indian Journal of Biotechnology Vol. 20, July 2021, pp 217-235
- Ratnum Kaul Wattal and **Babeeta C Kaula**. Effect of Elevated Carbon Dioxide on Cell Wall Metabolism. *European Journal of Biomedical and Pharmaceutical sciences*. 2021, Volume, 8 Issue 9, 282-285.
- Tripathi A, Abbas N.S, Nigam A, Bhardwaj S, **Kaula B.C**, Vadakan A.B. An Alternate Cost-effective Medium for In Vitro Regeneration of Therapeutically Important *Ocimum citriodorum* Vis. Biosci Biotech Res Asia 2021;18(3),533-542  
**DOI :** <http://dx.doi.org/10.13005/bbra/2938>
- Abbas NS, Arora S, Anand R, Bhardwaj S, Dinakaran J, **Kaula BC**, Nasreen S, Vadakan AB. An Overview of COVID 19 PAN India. *Asian Pac. J. Health Sci.*, 2022; 9(2):53-62. DOI:[10.21276/apjhs.2022.9.2.13](https://doi.org/10.21276/apjhs.2022.9.2.13)

- Dinakaran J, Abbas N. S, Bhardwaj S, **Kaula B. C.** Soil Carbon Sequestration Potential of Terrestrial Ecosystems: Trends and Soil Priming Effects. *Curr World Environ* 2022;17(1). DOI:<http://dx.doi.org/10.12944/CWE.17.1.14>
- **Babeeta C. Kaula**, Reema Mishra, Geeta, Sanjay Kumar and Aparajita Mohanty. Phytoconstituents and ethnopharmacological activities of *Abrus precatorius* L. (Fabaceae): a review. *Vegetos* <https://doi.org/10.1007/s42535-022-00397-0>
- Sujata Bhardwaj, N. S. Abbas, **Babeeta C Kaula** and Anil Prakash. Diversity of fungal endophytes at different maturity levels of *Cryptolepis buchanani* leaves. *Current Botany* 2023, 14: 24-31 DOI:[10.25081/cb.2023.v14.7210](https://doi.org/10.25081/cb.2023.v14.7210)
- Priya Yadav, Mohammad Wahid Ansari, **Babeeta C. Kaula**, Yalaga Rama Rao, Moaed Al Meselmani, Zahid Hameed Siddiqui, Brajendra, Shashi Bhushan Kumar, Varsha Rani, Abhijit Sarkar, Randeep Rakwal, Sarvajeet Singh Gill, Narendra Tuteja. Regulation of ethylene metabolism in tomato under salinity stress involving linkages with important physiological signaling pathways. *Plant Science*, Volume 334,2023,111736, ISSN 0168-9452, <https://doi.org/10.1016/j.plantsci.2023.111736>
- Priya Yadav, Yalaga Rama Rao, Yasheshwar, **Babeeta C Kaula**, Zahid Hameed Siddiqui, Moaed Al Messelmani, Ranjan Kumar Sahoo, Mohammad Wahid Ansari, UmaDevi Pongiya, Randeep Rakwal, Narendra Tuteja, Sarvajeet Singh Gill. Ethylene inhibitors improve crop productivity by modulating gene expression, antioxidant defense machinery and photosynthetic efficiency of *Solanum lycopersicum* L. cv. Pusa Ruby grown in controlled salinity stress conditions. *South African Journal of Botany*, Volume 161,2023,Pages66-77,ISSN0254-6299, <https://doi.org/10.1016/j.sajb.2023.07.060>

### Book Chapters

- **Babeeta Chrungu Kaula** (2007). Role of systematics in biodiversity conservation. In *Biodiversity, Conservation and Systematics*.pp163-171ISBN:81-7233-464-8
- Aparajita Mohanty, Nidhi Mohan Verma and **Babeeta Chrungu** (2011). New Potential Forage/Fodder Crops for India. In *Forages and Fodder- Indian Perspective*-pp 45-50 ISBN:81-7035-667-9
- Tabassum Jehan, **Babita Chrungu Kaula**, Aparajita Mohanty and Nidhi Verma (2012). Assessment of Genetic Resources of Faba Bean (*Vicia faba* L.) In *Faba Bean(Vicia faba L.A Potential Leguminous of India*.Pp 43-46 ISBN:81-7035-667-3
- Aparajita Mohanty, Nidhi Verma and **Babeeta Chrungu Kaula** (2012 ).Role of Wild Relatives in Faba Bean Improvement. In *Faba Bean(Vicia faba L.A Potential Leguminous of India*.Pp 39-42 ISBN:81-7035-667-3
- Bhattacharya, S., Dhawan, A., **Kaula, B.C** and Wattal, R. K (2017). Role of Essential Oils in Antimicrobial Activities. In: *Scope of Phytochemically Unexplored Medicinal Plants*.pp-195-203 Enriched Publications ISBN: 978-1-63535-013-5

- **Babeeta C Kaula** and Ratnum Kaul Wattal (2018). “Elevated Carbon Dioxide: A Threat to Plant and Human Life” In: Introduction to challenges and strategies to improve crop productivity in changing environment. pp 153-167 Enriched publications ISBN:978-81-934634-9-9
- Babeeta C Kaula and Reeta Khosla (2018). “Agricultural Adaptation Strategies to Climate Change”. In: Introduction to challenges and strategies to improve crop productivity in changing environment. pp 245-251 Enriched publications ISBN:978-81-934634-9-9

**Conference Organization/ Presentations (in the last five years)**

<b>Year</b>	<b>Conference/ Workshop Organization</b>	<b>Institution</b>	<b>Period</b>
<b>2019-20</b>	Workshop on “Handmade paper making and paper product designing”	Zakir Husain Delhi College, University of Delhi	<b>31 January -1 February 2020</b>
<b>2019-20</b>	Annual College Fest “Aadab”	Zakir Husain Delhi College, University of Delhi	<b>4-5 March 2020</b>
<b>2020-21</b>	Organizing Secretary for an online webinar on “Intellectual Property Rights-An Overview”	Department of Botany, Zakir Husain Delhi College	<b>7 October 2020</b>
<b>2021-22</b>	Organized an online event on 5th June 2021- World Environment Day #Generation Restoration	Botanical Society ‘Nargis’ Zakir Husain Delhi College	<b>5 June 2021</b>
<b>2021-22</b>	Organized talk-cum-workshop on “A Route to Roots”	Garden and Greening Committee and Botanical Society ‘Nargis’ Zakir Husain Delhi College	<b>31 August 2021</b>
<b>2021-22</b>	Organized many online events on “World Ozone Day”	Botanical Society ‘Nargis’ Zakir Husain Delhi College	<b>16 September 2021</b>
<b>2021-22</b>	Organized many online events on “World Wetland Day”	Botanical Society ‘Nargis’ Zakir Husain Delhi College	<b>02 February 2022</b>
<b>2021-22</b>	Organizing committee member of Refresher Course on Laboratory Techniques for lab staff	Department of Botany, Zakir Husain Delhi College	<b>7-11 February 2022</b>

<b>2021-22</b>	Organized IPR Awareness Programme (NIPAM)	IQAC and Botanical Society 'Nargis' Zakir Husain Delhi College	<b>12 February 2022</b>
<b>2021-22</b>	Organized National Faculty Development Program on 'Building Academic Leaders for 21st Century Higher Education	GADTLC of MHRD Under PMMMNMTT, SGTB Khalsa College, University of Delhi	<b>21-22 April 2022</b>
<b>2022-23</b>	Organizing Committee Member- International Conference cum Workshop on Proteomics, Transcriptomics, and Molecular Drug Design: An Integrated Omics Approach	Department of Botany, Zakir Husain Delhi College, University of Delhi	<b>25 -27 May 2022</b>
<b>2022-23</b>	Organized a workshop on "Handmade Paper and Product Making"	Zakir Husain Delhi College, University of Delhi	<b>21-22 June 2022</b>
<b>2022-23</b>	Awarded IInd position in an International Conference on 'Emerging Trends in Higher Education' presented topic "Mental Health: A Challenge in Higher Education"	GADTLC-Ministry of Education, SGTB Khalsa College, University of Delhi PMMMNMTT,UK Awards Education Excellence, NTPC Group of colleges UK	<b>28-29 March 2023</b>
<b>2023-24</b>	Convener- Training Program on Food Safety	Department of Botany, Zakir Husain Delhi College, University of Delhi	<b>20 October 2023</b>
<b>2023-24</b>	Organizing team member –NEP Orientation and Sensitization Programme	GAD-MMTTC, SGTB Khalsa College, University of Delhi <a href="https://mmc.ugc.ac.in/">https://mmc.ugc.ac.in/</a>	<b>13-24 November 2023</b>

<b>Research Projects (Major Grants/Research Collaboration)</b>
➤ <b>Under Innovation Projects- University of Delhi a project entitled “ Use of Innovative Raw Materials for Handmade Paper Making” was granted in 2013-14 with project code as :ZH-204</b>
<b>Awards and Distinctions</b>
➤ <b>Qualified GATE</b> ➤ <b>Distinction in M.Phil</b>
<b>Association With Professional Bodies</b>
➤ <b>Life member of Phytomorphology</b> ➤ <b>Life member of Botanica</b>
<b>Other Activities</b>
➤ <b>Gardening</b> ➤ <b>Environmental consciousness</b>