

## Curriculum Vitae

Name (in Block Letters): **SADHNA BABBAR**

Father's Name/Mother's Name: **Shri P. C. Dhingra /Late Smt. Gian Devi Dhingra**

Date and Place of Birth: **June 15, 1959, Delhi**

Sex: **Female**

Marital Status: **Married**

Nationality: **Indian**

Department: **Botany**

Designation: **Professor**

Category (SC/ST/OBC/PWD/General): **General**

Address for Correspondence (with Pin code):

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Academic Qualifications:

Examination	Name of Exam	University	Year of Passing	Percentage of Marks obtained	Division/ Class/ Grade	Main Subjects
<b>Graduation</b>	<b>B.Sc. (Hons), Botany</b>	<b>University of Delhi</b>	<b>1978</b>	<b>68%</b>	<b>First</b>	<b>Botany (Main), Zoology and Chemistry (Subsidiaries)</b>
<b>Post-Graduation</b>	<b>M.Sc. Botany</b>	<b>University of Delhi</b>	<b>1980</b>	<b>5.00 GPA</b>	<b>'A' grade</b>	<b>Botany</b>

Research Degree(s):

Degrees	Name of the University	Title of dissertation/thesis	Date of submission	Date of award
<b>M.Phil.</b>	<b>University of Delhi</b>	<b>Some Aspects of Ultrastructure of Mosses</b>	<b>1981</b>	<b>1981</b>
<b>Ph.D/ D.Phil.</b>	<b>University of Delhi</b>	<b>Experimental Studies on Some Bryophytes</b>	<b>August 29, 1985</b>	<b>1986</b>

Courses taught at various levels:

- (a) Undergraduate: **B.Sc. (Hons) Botany, B.Sc. Life Sciences, B.Sc. Applied Life Sciences**
- (b) Postgraduate: **None**

Field of Specialization under the Subject/Discipline: **Physiology of Growth and Development with Special Reference to Lower Plants, *In Vitro* Cultures**

Teaching experience: 34 years

## **RESEARCH AND ACADEMIC CONTRIBUTIONS**

Published Research Papers in Referred/Peer-Reviewed or UGC listed Journals

S. N o.	Title of the Paper	Journal Name	Year	Vol. No.	Page No.	ISSN No.	Impact Factor (2021)	SCOPUS Indexed	Authorship	Reference number of UGC - CARE List
1.	Protonemal gemmae in the moss <i>Trematodon brevicalyx</i> Dixon.	Journal of Bryology	1983	12	571-573	0373-6687	1.361	Yes	First Author	Group II
2.	Studies on bud induction in the moss <i>Trematodon brevicalyx</i> Dixon.	New Phytologist	1984	97	613-620	0028-646X (Print) 1469-8137 (Online)	10.151	Yes	One of the two authors	Group II
3	Production of protonemal gemmae in the moss <i>Semibarbula orientalis</i> (Web.) Wijk & Marg.	Journal of Bryology	1985	13	533-535	0373-6687 (Print) 1743-2820 (Online)	1.361	Yes	First Author	Group II
4.	Induction of callus in the liverwort <i>Marchantia palmata</i> Nees.	Journal of Bryology	1985	13	585-590	0373-6687 (Print) 1743-2820 (Online)	1.361	Yes	First Author	Group II
5.	Studies on callus induction, its growth and differentiation in <i>Marchantia palmata</i> Nees. I. Effect of some amino acids, complex organic substances and activated charcoal.	Journal of the Hattori Botanical Laboratory (Hattoria)	1986	60	193-202.	00073-0912 (Print) 2432-8944 (Online)	-	No	One of the two authors	Peer Reviewed
6.	Influence of <i>Aerobacter aerogenase</i> on <i>in vitro</i> morphogenetic behaviour of <i>Philonotis lancifolia</i> Mitt	Current Science	1986	55	1097-1098	0011-3891 (Print)	1.102	Yes	Sole author	Group II
7.	Studies on callus induction, its growth and differentiation in <i>Marchantia palmata</i> Nees. II. Effect of some growth regulators	Beiträge zur Biologie der Pflanzen (Founded in 1870 and discontinued in 2004)	1986	61	467-476	005-8041	-	No	First author	Peer-reviewed
8.	Studies on bud induction in the moss <i>Hymenostomum edentulum</i> (Mitt.) Besch.	Journal of the Hattori Botanical Laboratory (Hattoria)	1986	61	93-99	00073-0912 (Print) 2432-8944 (Online)	-	No	Sole author	Peer-reviewed
9.	<i>In vitro</i> behaviour of gemmae in <i>Trematodon brevicalyx</i> and <i>Semibarbula orientalis</i> I. Effect of light	Journal of the Hattori Botanical Laboratory (Hattoria)	1988	64	411-427	00073-0912 (Print) 2432-8944 (Online)	-	No	Sole author	Peer reviewed

	and some growth regulators									
10.	Studies on protonemal differentiation and bud formation in <i>Philonotis lancifolia</i> Mitt. I. Effect of some growth regulators	Cryptogamie, Bryologie-Lichénologie (Cryptogamie, Bryologie)	1988	9	24 1-25 4	1290-6796 (Print), 1776-0992 (Online)	0.661	Yes	One of the two authors	Group II
11.	Effect of some growth regulators on protonemal growth and bud induction in two mosses: <i>Philonotis lancifolia</i> and <i>Trematodon brevicalyx</i>	Phytomorphology	1988	38	29 9-30 7	ISSN 2226-3063, eISSN 2227-9555	-	Yes	Sole author	Group II
12.	<i>In vitro</i> behaviour of gemmae in <i>Trematodon brevicalyx</i> and <i>Semibarbula orientalis</i> II. Effect of activated charcoal, coconut milk, octopine and tryptophan	Journal of the Hattori Botanical Laboratory (Hattoria)	1989	66	29 9-30 6	00073-0912 (Print) 2432-8944 (Online)	-	No	Sole author	Peer reviewed
13.	Studies on protonemal differentiation, bud and gemma formation in <i>Trematodon brevicalyx</i> : Effect of interaction of kinetin with tryptophan and PCIB	Phytomorphology	1990	40	65 - 68	ISSN 2226-3063, eISSN 2227-9555	-	Yes	First author	Group II
14.	Effect of sucrose on morphogenesis of isolated cells of <i>Marchantia palmata</i> Nees	Phytomorphology	1991	41	12 9-13 2	ISSN 2226-3063, eISSN 2227-9555	-	Yes	Sole author	Group II
15.	Studies on protonemal differentiation and bud formation in <i>Philonotis lancifolia</i> Mitt. and <i>Trematodon brevicayx</i> Dixon: Effect of some purine derivatives	Journal of the Hattori Botanical Laboratory (Hattoria)	1992	71	37 - 45	00073-0912 (Print) 2432-8944 (Online)	-	No	One of the two authors	Peer reviewed
16.	Cost effective <i>in vitro</i> multiplication and phenolic profile of an important	Journal of Biologically Active Products from Nature	2021	11	162-182.	Print ISSN: 2231-1866 Online	-	Yes	Co-author	Group II

	medicinal orchid, <i>Satyrium nepalense</i> D. Don,					ISSN: 2231- 1874				
17.	<i>In Vitro</i> androgenesis in anther cultures of <i>Crataeva nurvala</i> Buch. Ham.	Phytomorphology	2021	71	81 - 89	2226-3063 (Print) 2227-9555 (Online)	-	Yes	Corresponding +author	Group II
18.	Arbuscular mycorrhiza facilitates growth of micropropagated plants and seedlings of black plum, <i>Syzygium cuminii</i> (L.) Skeels	Kavaka	2021	57	66 - 73	0379-5179	-	No	Corresponding author	Group I K14
19.	Authentication and deciphering interrelationships of <i>Hippophae</i> species using DNA Barcodes.	Nucleus	2022	<a href="https://doi.org/10.1007/s13237-021-00382-z">https://doi.org/10.1007/s13237-021-00382-z</a>		0976-7975 (Online) 0029-568X (Print)	1.8	Yes	Co-author	Group II

#### Chapter in Edited Books

S.No.	Title of Edited Book	Title of Chapter	Authorship*	Publisher (with city/ country) & Year of Publication	ISBN	Whether Refereed
1.	<b>Bryophyte Development: Physiology and Biochemistry</b>	<b>Growth Regulating Substances in Mosses</b>	<b>One of the two authors</b>	<b>CRC Press, Florida, 1990</b>	<b>0-8493-5289-4</b>	<b>Yes</b>
2.	<b>Advances in Life Sciences: Professor MU Charaya Felicitation Volume</b>	<b>DNA Barcoding in Species Identification Sans Physical Presence</b>	<b>Co-author</b>	<b>SR Scientific Publications, New Delhi-Agra, 2018</b>	<b>978-9383774-289</b>	<b>No</b>
3.	<b>New Vistas in Indian Flora</b>	<b>DNA Barcoding of Medicinal Plants</b>	<b>Co-author</b>	<b>M/s Bishen Singh Mahender Pal Singh, Dehradun, 2021</b>	<b>978-81-943323-5-0</b>	<b>No</b>

#### Design of new Curricula and Courses:

S.No.	Name of the Curricula/Course	Subject	Organization for which it was developed	Year	Level (UG/PG/Other)	Weblink	Academic Research Score
1.	B.Sc. (Hons)/Plant Systematics	Botany	University of Delhi	2019	UG	<a href="http://www.du.ac.in/uploads/Revi_syl1_19082019/19082019_B.Sc.(H)%20Botany.pdf">http://www.du.ac.in/uploads/Revi_syl1_19082019/19082019_B.Sc.(H)%20Botany.pdf</a>	2

2.	B.Sc. (Hons)/Biomolecules and Cell Biology	Botany	University of Delhi	2019	UG	<a href="http://www.du.ac.in/uploads/Revisyl1_19082019/19082019_B.Sc.(H)%20Botany.pdf">http://www.du.ac.in/uploads/Revisyl1_19082019/19082019_B.Sc.(H)%20Botany.pdf</a>	2
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6. Invited lectures/Resource Person/ paper presentation in Seminars/ Conferences/full paper in Conference Proceedings (Paper presented in Seminars/Conferences and also published as full paper in Conference Proceedings will be counted only once):

S.No.	Title of Lecture/Paper	Invited Lecture/Resource Person/Paper presented	Nature of Programme*	Details	Level**	Date of presentation	Duration (in minutes)	Sponsoring Agency	Academic Research Score
1.	-	Session Expert (Co-Chair)	Conference	In Botany Discipline of the 8 <sup>th</sup> Uttarakhand State Science and Technology Congress (USSTC)	National	Dec. 27, 2013	Whole day	Uttarakhand Council of Science & Technology (UCOST), Dehradun	2
2.	-	Subject Expert	Project Review and Evaluation Committee	-	National	December 17-18, 2019	Two days	(UCOST), Dehradun	2
3.	East India Company ke Virudh Sanayasio Evam Fakiro Dvara Prarambhik Vidroh	Oral	Seminar	“Swantarta Andolan mai Sadhu Santo ka Yogdan”	National	October 25, 2021	One day	Indian Council of Historical Research & SSN College, DU	2

Membership/Fellowship of Learned bodies /Societies\*:

- (i) Life Member, Delhi University Botanical Society, Delhi (Membership No. LM7).
- (ii) Member, Indian Science Congress association (Membership No. A53317).
- (iii) Life Member, The Orchid Society of India, Chandigarh.