

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
Graduation	B.Sc. (Hons), Botany	University of Delhi	1978	68%	First	Botany (Main), Zoology and Chemistry (Subsidiaries)
Post-Graduation	M.Sc. Botany	University of Delhi	1980	5.00 GPA	'A' grade	Botany

Research Degree(s):

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

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 N o.	ISSN No.	Impact Factor (2021)	SCO PUS Inde xed	Authors hip	Referen ce number of UGC - CARE List
1.	Protonemal gemmae in the moss <i>Trematodon brevicalyx</i> Dixon.	Journal of Bryology	1983	12	57 1- 57 3	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	61 3- 62 0	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	53 3- 53 5	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	58 5- 59 0	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	19 3- 20 2.	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	10 97 - 10 98	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	46 7- 47 6	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	41 1- 42 7	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 brevicalyx</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 micropaginated plants and seedlings of black plum, <i>Syzygium cumini</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	https://doi.org/10.1007/s13237-021-00382-z		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.	Bryophyte Development: Physiology and Biochemistry	Growth Regulating Substances in Mosses	One of the two authors	CRC Press, Florida, 1990	0-8493-5289-4	Yes
2.	Advances in Life Sciences: Professor MU Charaya Felicitation Volume	DNA Barcoding in Species Identification Sans Physical Presence	Co-author	SR Scientific Publications, New Delhi-Agra, 2018	978-9383774-289	No
3.	New Vistas in Indian Flora	DNA Barcoding of Medicinal Plants	Co-author	M/s Bishen Singh Mahender Pal Singh, Dehradun, 2021	978-81-943323-5-0	No

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	http://www.du.ac.in/uploads/Revi_syl1_19082019/19082019_B.Sc.(H)%20Botany.pdf	2

2.	B.Sc. (Hons)/Biomolecules and Cell Biology	Botany	University of Delhi	2019	UG	http://www.du.ac.in/uploads/Revi_syl1_19082019/19082019_B.Sc.(H)%20Botany.pdf	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.N o.	Title of Lecture/Paper	Invited Lecutre/R esource Person/Pa per presented	Nature of Programme*	Details	Level**	Date of presentation	Duration (in minutes)	Sponsoring Agency	Acade mic Resear ch Score
1.	-	Session Expert (Co-Chair)	Conference	In Botany Discipline of the 8 th 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 Dwara Prarambhik Vidroh	Oral	Seminar	“Swantarta Andolan mai Sadhu Santo ka Yodgan”	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.