

NAAC-IQAC INDIVIDUAL FACULTY PROFILE

1. Name of The Faculty Member : Dr . P . V I S W A N A T H A N
2. Department : B o t a n y
3. Present Designation : A s s o c i a t e P r o f e s s o r
4. Mode of Appointment : T R B
5. Scale of Pay : 37400-67000 Grade pay 9000
6. Present Pay : 143600
7. Indicating whether belongs to SC/ST/BC/OC:- B C
8. Address for Communication : 3/458 A1, SRIDURGANAGAR, 3RD STREET, BHARATHIAR UNIVERSITY post, COIMBATORE - 641046

9. Academic qualifications:

Examinations	Name of the Board/University	Subject	Percentage of marks obtained	Division/class/ Grade	Year of passing
SSC	Board of secondary Education	General	54.8	II	1983
HSC	Board of Higher Secondary Examination	Physics, Chemistry, Biology and Mathematics	51.5	II	1985
B.Sc.	Bharathidasan University	Botany	63.4	I	1988
M.Sc.	Annamalai University	Botany	69.3	I	1991
Others Examinations, if Any					

10. Research Degrees:

Degree	Title	Date of Award	University/Institution
M.Phil	Induced Mutations and Hybridization in Triticale (<i>X Triticosecale</i> Wittmack)	1993	Bharathiar University
Ph.D	Breeding, Cytogenetics and Induced Mutation studies in Wheat and Triticale	1997	Bharathiar University

11. Appointments held before joining the present institution:

Designation	Name of the Institution	From	To	Salary with Grade
Lecturer	Achariya College of Education, Villianur, Puducherry	2000	2009	33000

12. Posts held after appointment at this institution:

Designation	Department	Date of Actual Joining		Grade
		from	to	
Assistant Professor	Botany	2009	2021	8000
Associate Professor	Botany	2021	Till date	9000

13. Period of Teaching Experience: P.G Classes: 15 Years

U.G Classes:15 Years.

14. Research experience excluding Years spent in M.Phil/Ph.D: 22
years

15. Fields of Specialization under the subject/Discipline: Genetics and plant Breeding,

Phytochemistry and Pharmacognosy

16. Academic staff College OC/RC Attended:

Name of the course	Place	Duration	Sponsoring Agency
O.C	Academic Staff College, Madras University	09.07.2009 – 05.08.2009	UGC
R.C	Academic Staff College, Bharathiar University	12.05.2011 – 01.06.2011	UGC
R.C	HRDC, Bharathiar University	04.07.2018 – 24.07.2018	UGC
R.C	Human Resource Development Centre, Bharathiar University	22.01.2020 to 04.02.2020	UGC
R.C	Teaching Learning center, Ramanujam College, University of New Delhi,	18.02.2023 to 04.03.2023	UGC

17. Co-Curricular, Extension and Professional Development Related Activities including FDP

S.No	Name of the Activity	Details
1	Faculty Development Programme	<i>“International Regulatory Requirements for Clinical Trials and Data Management”</i> from 24.07. 2023 to 28.07.2023 organized by Tamilnadu Skill Development Corporation (Naan Mudhalvan Scheme) at Bharthiar University, Coimbatore.

18. Other Relevant Information:

Please give details of any other credentials, significant contributions, awards received:

S.No	Details (Mention Year where relevant)
1	“RASHTRIYA VIDYA SARASWATHI PURASKAR AWARD” Received from International Institute of Education and Management, New Delhi – 2008.
2	“LIFE TIME ACHEIVEMENT GOLD MEDEL AWARD” – Indian Solidarity Council, New Delhi – 2008.

19. List of Research Papers Published:

Sl. No.	Title of Article	Journal	Year of Publication	Volume, Issue, Month, Year, page
1	Induced mutations in microsperma and macrosperma.	<i>Ad.Plant Sci..</i>	1993	6(1): 102-115
2	Introduction of <i>Aegilops ventricosa</i> derived gene complex Sr38 + Lr37 + Yr17 into popular Indian wheat cultivars	<i>Ann. Wheat News Let. (USA)</i>	1994	40: 147-148.
3	Incorporation of stripe rust resistant specific genes into Unnath Kalyansona carrying different gene complex.	<i>Wheat Inf. Ser. (Japan)</i>	1994	78: 24-27.
4	A comparative study of microsperma and macrosperma lentils.III. Biological parameters.	<i>Ad. Plant. Sci..</i>	1994	7(1): 112-120
5	Induced chlorophyll mutants in triticales.	<i>J. Cytol. And Genet.</i>	1994	29(2): 193-198.
6	Induced mutagenesis in three different triticales.	<i>Bio. Journal</i>	1994	5(1-2): 169-173.
7	Induced morphological mutants in three different hexaploid triticales	<i>J. Nuclear Agric. Biol.</i>	1994	23(2): 1-2.
8	Giemsa C-banding technique for <i>Saccharum</i> and its related genera.	<i>J. Indian Bot. Soc.</i>	1994	73 (1-2): 153-154.
9	Induced quantitative variability in triticales.	<i>J. Indian Bot. Soc.</i>	1994	73: 217-220.
10	Development of disease rust resistance in wheat variety HW741.	<i>Cereal Res. Commun. (Hungary).</i>	1995	23 (1-2): 71-74
11	Variation in biochemical and nuclear DNA contents in susceptible and constituted rust resistant lines of Indian wheats	<i>Ann. Wheat News Let. (USA)</i>	1995	41: 106-107.
12	Performance of newly constituted wheat lines carrying stripe rust resistance genes.	<i>Ann. Wheat News Let. (USA)</i>	1995	41:108.
13	Frequency and spectrum of chlorophyll mutants in triticales with different rye chromosome constitution.	<i>J. Indian Bot. Soc.</i>	1995	74 : 335-336.
14	Meiotic studies of M1 plants in triticales treated with gamma rays and EMS.	<i>Acta Botanica Indica</i>	1995	23 : 71-74.

15	Improvement of hexaploied triticales through hybridization with rye and wheat.	<i>J. Cytol. And Genet</i>	1995	30(1) : 21-26.
16	Studies on the confirmation of transfer of rust resistance genes into Indian wheats	<i>Ann. Wheat News Let. (USA)</i>	1996	42:104.
17	Cytological effects of different mutagens in triticales, wheat and barley.	<i>J. Nature and Conservation</i>	1996	8(1) : 11-13.
18	Effects of variation in rye chromosome composition on chlorophyll mutations in triticales.	<i>Ad .Plant Sci.</i>	1996	9(1) : 51-53
19	Genetics, Breeding and Induced Mutation studies in wheat and triticales.	<i>Ann. Wheat News Let. (USA)</i>	1997	43: 119-120
20	Genetics of early flowering mutants in triticales.	<i>Acta Agronomica (Hungary).</i>	1997	46(4): 389-391
21	Disease rust reaction in hybrids involving Indian wheats and HW 1042. <i>The Indian Jour. Cytogenetics . 3(1) : 9-12.</i>	<i>The Indian Jour. Cytogenetics ..</i>	1997	3(1) : 9-12
22	Induced mutagenesis in barley.	<i>Ad. Plant Sci.</i>	1997	10(1) : 103-106.
23	Chromosome banding techniques and their application in biological systems.	<i>The J. Nature Conservation</i>	1998	10(2): 123-132
24	Induced agronomical mutants in wheat and triticales.	<i>J. Indian Bot. Soc.</i>	1998	77: 67- 69.
25	Genetics of leaf rust resistant mutant WH 147 - LM - 1 in hexaploid wheat.	<i>Acta Agronomica (Hungary)</i>	1999	47(1): 63-64.
26	Effect of transferred rust resistance genes on yield performance in hexaploid wheat.	<i>Acta Agronomica (Hungary)</i>	1999	47(1): 65-68
27	Induction of morphological; mutants in triticales.	<i>Ad. In Bio-Sciences</i>	1999	18(1): 67- 72.
28	Induced rust resistant mutants in hexaploid wheat WH 147.	<i>Crop Research</i>	1999	18(3): 443 - 445.
29	Genetics of grain mutant in hexaploid triticales TL 419.	<i>Crop Research</i>	1999	18(3): 484-485.
30	Effect of ploidy level on chlorophyll mutation in wheat and triticales.	<i>J.Indian Bot. Soc.</i>	1999	78: 61-63
31	Effect of R/d substitutions and /or modified rye chromosomes on Kernel characters in Triticales.	<i>Indian J. Genet..</i>	2001	61(1):1-6

32	Effect of aluminum and lead on the germination and growth of <i>Vigna unguiculata</i> (L.) Walp.	<i>International Journal of Current Research and Development.</i>	2013	2 (1): 38-45.
33	GC-MS Analysis of phytocomponents in <i>Spermacoce articularis</i> L.f. leaf.	<i>Research in Pharmacy,</i>	2014	4(4): 01-07.
34	Phytochemical Analysis of <i>in vitro</i> and <i>in vivo</i> extracts of <i>Spermacoce articularis</i> L.f.	<i>Gaschi. Journ. of Scien. & Applic.,</i>	2014	2(1): 18-23
35	Anti- inflammatory activity of <i>Spermacoce articularis</i> L.f.	<i>Gaschi. Journ. of Scien. & Applic.,</i>	2014	2(1): 29-32.
36	<i>In vitro</i> multiple shoot regeneration from shoot tip explants of <i>Spermacoce articularis</i> L.f.	<i>Intern. Journal. of Gene. Medi. and Pharm. (IJGMP).</i>	2014	3(5): 111-116.
37	Phytochemical and antioxidant activities of <i>in vitro</i> and <i>in vivo</i> extracts of <i>Spermacoce articularis</i> L.f.	<i>Intern. Journal. of Appli.ed and Nat. Scien. (IJANS),</i>	2014	3(4): 11-22.
38	GC-MS Analysis of methanolic extract of <i>in vitro</i> and <i>in vivo</i> explants of <i>Spermacoce articularis</i> L.f.	<i>Medical Science,</i>	2014	13(50): 39-42.
39	Effects of some Haematological and Biochemical Parameters of <i>Sermacoce articularis</i> .	<i>International Journal of Recent Research Aspects (IJRRA),.</i>	2018	944-948
40	Comparative studies of phytochemical analysis and pharmacological activities of wild and micropropagated plant ethanol extracts of <i>Manihot esculenta</i> .	<i>Biocatalysis and Agricultural Biotectnology, ELSEVIER,</i>	2019	19(2019) 101166.
41	Biosynthesis of Silver and Copper Nanoparticles Using <i>Cadaba fruticosa</i> (L.) Druce and its Biological Applications.	<i>Asian Pac. J. Health Sci.,</i>	2021	8(3):63-74.
42	Effects of Various Phytochemical Fractions of <i>Mundulea sericea</i> on Free Radical Scavenging and Inhibition of Inflammatory Agents.	<i>Asian Pac. J. Health Sci.,.</i>	2021	8(3):124-132
43	Phytochemical Characterization of <i>Mundulea sericea</i> Leaf Extracts and Analysis of	<i>Asian Pacific Journal of Health Sciences,</i>	2021	8(4), 137–144.

	Antioxidant and Antidiabetic Activities.			
44	Nanocatalytic Efficacy of Silver Nanoparticles Fabricated using <i>Chaetomorpha antennina</i> Algal Extract, Their Characterization, and Its Applications.	<i>Journal of Scientific Research.</i>	2022	14 (1), 343-362.
45	Investigation on Indigenous and Exotic Fruits of Nilgiris,	<i>Res. Jr. of Agril. Sci.</i>	2022	13(2): 430–439.
46	Phytochemical Screening, FTIR, GCMS and Antioxidant Activity of Aqueous Extract of <i>Pogostemon speciosus</i> Benth.: An Endemic Medicinal Plant.	<i>Res. Jr. of Agril. Sci.</i>	2022	13(3): 624–632
47	Facile synthesis of silver nanoparticles, anti-inflammatory, antibacterial and photocatalytic activities using <i>Pogostemon speciosus</i> Benth. An endemic medicinal plant	<i>Journal of Water and Environmental Nanotechnology</i>	2022	7(3): 306-316
48	Qualitative and Quantitative Phytochemical Analysis and Antioxidant Activity of <i>Pancratium zeylanicum</i> L. Bulb – An Endemic Medicinal Plant.	<i>Res. Jr. of Agril. Sci.</i>	2022	13: 1293–1303.
49	Various solvent effects on the analysis of anti-inflammatory, antibacterial, and anti-diabetic activities in <i>Pancratium zeylanicum</i> (L) bulbs..	<i>Journal of Xidian University</i>	2023	17(1): 351-368
50	Phyto-mediated Synthesis of Silver Nanoparticles with <i>Afrohybanthus travancoricus</i> Leaf Aqueous Extract and Screening of their in vitro Antioxidant, Anti-Inflammatory, and Anti-diabetic Activities..	<i>Pharmacogn. Res.,</i>	2023	15(4):751-760

20. List of Books Authored:

Sl. No.	Title	First / co-author	Details of Publisher	Year of publication
1.	Biological Science Teaching	First	Virat Publication, Pondicherry. ISBN No. 81-87957-06-9	2008

2.	Environmental Biology	First	Virat Publication, Pondicherry. ISBN No. 81-87957-10-7	2008
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21. List of Book Chapters Published:

Sl. No.	Title of Article	Book	Volume, Issue, Month, Year, page
1	Development of disease rust resistance in hexaploid wheat - An overview.	<i>In</i> Plant Breeding Advances and In -Vitro culture (B.A. Siddiqui and Samiullah Khan , Eds.),	CBS Publishers, New Delhi, 180-195.
2	Genetics, Plant Breeding and Bio – Statistics	School of Distance Education, Bharathiar University Coimbatore	
3	Anti-diabetic and cytotoxicity studies of ethanol extract of <i>Mundulea sericea</i> – a threatened medicinal plant.	Phytomedicine – Research and Development. CRC Press, (Taylor & Francis Group), Boca Raton, London, New York.	PP. 139-144. ISBN 9780367857592

22. List of Patents filed/granted: Nil

23. Conference Organized

Sl. No.	Date DD/MM/YY	Title of Conference/Seminar and Venue [National /International/state level]	Status as organizer
1	14/02/2023	Popularizing Millets	Organizer

24. Invited talks/Resource person/Chairperson

Sl. No.	Date DD/MM/YY	Title of Conference/Seminar	Title of the session	Organized by

25. **Conference/Seminar Participated:**

Sl. No.	Date DD/MM/YY	Title of the Conference and Organized by	If presented paper, title of the paper
1	16-17, Oct.1993,	Natl. Seminar on Biodiversity: Strategies for Conservation and Future Challenges. Bharathiar university, Ciombatore	A comparative study of triticales with different rye chromosome composition.
2	21-23, Dec..1993	Natl. Symp. Plant Breeding Strategies for India - 2000 AD and beyond. Marathwada Agricultural University, Parbhani	
3	.21-23, Oct 1994	17th Indian Botanical Conf., Punjab University, Chandigarh	
4	15-17, Nov.1994	Natl. Symp. Management of inputs of Optimising Crop and animal Productivity and Environmental Safety using Nuclear and Allied Techniques, Ranchi.	
5	23-24, April,1997.	Natl. Conf. Cytogenetical studies in higher plants, Annamalai University, Annamalianagar	Cytogenetic studies in triticales - Rye chromosome substitutions
6	27-28, Sep.1999	National Symposium on Forestry Towards 21st Century	Evaluation of variability and heritability in mother nursery of <i>Dendrocalamus strictus</i>
7	14 th and 15 th March 2002	UGC sponsored State Level Seminar organized by Department of Education, Annamalai University	“Emotional Intelligence- A Psychological preventative to understand terrorism”
8	8 th & 9 th Sept., 2010	National Conference on “Herbal Medicine” Sponsored by DBT, DRDO,CSIR and DST, . Department of Botany, Bharathiar University, Coimbatore.	
9	5 th May 2011	National Work shop on “Forest Conservation and Climate Change migration”, Forest College and Research Institute, TNAU, Mettupalayam.	
10	23 rd and 24 th , February, 2012	National work shop on “Man and Medicinal Plants” Sponsored by Indian Council of Medical Research. Department of Botany, Bharathiar University, Coimbatore.	
11	4 th and 5 th October 2012	“National Conference on Phytomedicine”, Department of Botany , Bharathiar University , Coimbatore	
12	1 st and 2 nd August, 2013	National work shop on “Intellectual Property Rights – Enlightenment for Creative Thoughts and Creative Minds”. Organized by Department of Botany, Bharathiar University, Coimbatore	

13	29 th and 30 th January, 2014.	National seminar on “Emerging Trends in Biodiversity Conservation and Sustainable Utilization (NSBCS), Organized by Department of Botany, Bharathiar University, Coimbatore	“An ethno botanical study of medicinal plants used in Kolli hills”
14	20th and 21st February 2020	National Conference on “Environment and Biosciences” organized by School of Biosciences. Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore-641 043.	
15	23 – 25, January 2023	13th NABS-National Conference on Current Perspectives for Sustainable Development in Life Sciences, Environment and agriculture. Periyar University, Salem, Tamilnadu, India	
16	5 th and 6 th January 2023.	National Conference on Phytomedicine (NCPM) Organized by Department of Botany, Bharathiar University, Coimbatore	

26. Projects Handled:

27.

Sl. No.	Title of the Project	Funding Agency	Amount of Grant	Period (From-To)