CURRICULUM VITAE

Dr. Ramwant Gupta
Associate Professor
Department of Botany
Deen Dayal Upadhyay Gorakhpur University, Gorakhpur, UP, India
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1. **Research/Teaching Experience: 15 Years**
2. **Area of specialization: Molecular Plant Physiology (Photosynthesis)**
3. **Academic Qualifications:**

UG	Botany, Chemistry and Zoology, University of Lucknow, UP, India (I^{st} Division) (2003)
PG	Plant Science, University of Lucknow, UP, India (I^{st} Division) (2005)
Ph.D.	Major: Plant Physiology Minor: Molecular Biology and Biotechnology, G. B. P. University of Agriculture and Technology, India (I^{st} Division) (2009)
Post Doctoral Fellow	1. Post-Doctoral Fellow, Seed Science and Technology, Indian Agricultural Research Institute, New Delhi, India (2010-14) 2. Post-Doctoral Fellow, Plant Science, Agriculture Research Organization, Volcanic Centre, Israel (2014-15) Offered 3. Research Fellow of INTI International University, Malaysia from 14 May 2024 to 31 December 2025
Academic Responsibility	1. Associate Professor, Department of Botany, Deen Dayal Upadhyay Gorakhpur University, Gorakhpur, UP, India (Nov.2022 onwards) 2. Reader (Associate Professor) Department of Biology, Faculty of Natural Sciences, The University of Guyana, Turkeyen Campus, Greater Georgetown, Guyana, South America (2021- 2022) 3. Assistant Professor, Department of Biology, School of Pure Sciences, College of Science Engineering and Technology, Fiji National University, Fiji Islands (2015- 2021)
Administrative Responsibility	1. Director, International Cell, Deen Dayal Upadhyay Gorakhpur University, Gorakhpur, UP, India 2. Coordinator, Institute of Agricultural and Natural Sciences, Deen Dayal Upadhyay Gorakhpur University, Gorakhpur, UP, India 3. Coordinator, Consultancy and collaborations, Research and Development Cell, Deen Dayal Upadhyay Gorakhpur University, Gorakhpur, UP, India 4. Nodal Officer, Study in India program, DDUGU, Gorakpur 5. Member, Ranking Cell, Deen Dayal Upadhyay Gorakhpur University, Gorakhpur, UP, India 6. Member, Departmental Research Committee (DRC), Department of Botany, Deen Dayal Upadhyay Gorakhpur University, Gorakhpur, UP, India

	7. Member Secretary, Twining, Joint and Dual Degree Program, Deen Dayal Upadhyay Gorakhpur University, Gorakhpur, UP, India 8. Member, Students Grievance Redressal Committee (SGRC), DDU Gorakhpur University, UP, India 9. Member, Borad of Studies (BoS), Faculty of Agriculture, DDU Gorakhpur University, UP, India 10. Member, Board of Studies (BoS), Department of Botany, DDU Gorakhpur University, UP, India 11. Member, formulation of PhD ordinance-2024, DDU Gorakhpur University, UP, India 12. Member, University Research Excellence Award policy formulation, DDU Gorakhpur University, UP, India 13. Organizing Secretary, Faculty Leadership Summit DDU Gorakhpur University By American Chemical Society (ACS), 2024 14. Coordinator, Information and Technology Centre (ITC) Cell, Deen Dayal Upadhyay Gorakhpur University, Gorakhpur, UP, India (April 2023-Oct 2023) 15. G20 Ambassador(2023), HEI, Uttar Pradesh Govt, Lucknow, India

4. International/National fellowship/financial support for advance studies/research

S. No.	**Name of the fellowship/ financial support**	**Year of Award**	**National/International**	**Awarding Agency**
1	Research Fellow	2024	International	INTI International University, Malaysia
2	Post-Doctoral Fellowship	2014	International	ARO, State of Israel
3	Post-Doctoral Fellowship	2010	National	IARI, New Delhi, India
4	University Fellowship for PhD	2006	National	GBPUA&T, Pantnagar, India

5. International/National award/recognition for academics

S. No.	**Name of the award/recognition**	**Year of Award**	**National/International**	**Awarding Agency**
1	Human Excellence Golden Award-2025	2025	International (USA)	The American University of Global Peace association with United Nation University of global Peace USA
2	Young Scientist Award	2025	International	International Conference on Advances in System Biology at Dr Hari Singh Gour Central

				University, MP, India
3	University Research Excellence Award (UREA)	2025	National	Deen Dayal Upadhyaya Gorakhpur University, Gorakhpur, UP, India
4	Research Fellow of from 14 May 2024 to 31 December 2025	2024	International (Malaysia)	INTI International University, Malaysia
5	Fellow Award	2022	International (Photobiology)	Agriculture and Environmental technology development society (AETDS) at Institute of Forestry, Tribhuvan University, Pokhara Campus Pokhara, Nepal.
6	Venture Fellow Award	2022	International (Guyana Innovation Prize Program)	The Economic Development Fund Inc., The Guyana Economic Development Trust, Lot 2 Soesdyke East Bank Demerara Guyana, South America.
7	Best Paper Award	2021	International	Academy of Natural Resource Conservation and Management, Lucknow, India
8	Excellent Scientist Award	2021	National	Indian Council of Agricultural Research and National Institute of Plant Biotechnology, New Delhi, India
9	Foreign Fellow Award	2020	International	The Society for Science of Climate Change and Sustainable Environment, New Delhi, India

6. Patents

Patent Number	**Title of the patent**	**Year of Award / publish of patent**
202411078833	A manganese based water splitting/oxygen evolving composition and its method of preparation	2024

7. Research/Review Papers published

S. No.	**Title of paper**	**Name of the author/s**	**Name of journal**	**Year of publication**	**ISSN number**	**Link to the recognition in UGC enlistment of the Journal**		
						Link to website of the Journal	**Link to article/paper /**	**Listed in /Scopus/Web of Science**
1	In Silico Identification of chilli Genome encoded MicroRNAs Targeting the 16S rRNA and secA genes of 'Candidatus Phytoplasma trifolii'	Vineeta Pandey, Aarshi Srivastava, **Ramwant Gupta**, MS Shahid and R. K. Gaur	Front. Bioinform	2025	2673-7647	https://www.frontiersin.org/journals/bioinformatics/articles/10.3389/fbinf.2024.1493712/abstract	10.3389/fbinf.2024.1493712	IF: 2.8
2	Molecular characterization of chilli leaf curl virus and 'Candidatus Phytoplasma trifolii' infecting Capsicum annuum, India	R. K. Pandey, V., Srivastava, A., Mall, S. **Gupta, R.** Gaur RK	Vegetos	2025	2229-4473	https://link.springer.com/article/10.1007/s42535-025-01164-7#citeas	https://doi.org/10.1007/s42535-025-01164-7	1
3	Predicting candidate miRNAs for targeting begomovirus to induce sequence-specific gene silencing in chilli plants	Pandey V, Srivastava A, Ali A, **Gupta Ramwant**, Shahid MS and Gaur RK	Frontiers in Plant Science	2024	1664-462X	https://www.frontiersin.org/journals/plant-science	https://doi.org/10.3389/fpls.2024.1460540	IF: 4.1

4	Molecular characterization of bipartite begomovirus associated with papaya Leaf curl disease in Chhattisgarh, India	Aarshi Srivastava, Vineeta Pandey, Ramwant Gupta, R. K. Gaur	Indian Phytopathology	2024	2248-9800	https://link.springer.com/journal/42360	https://link.springer.com/article/10.1007/s42360-024-00780-8	Scopus
5	Non-destructive mathematical models to estimate leaf area in noni (Morinda citrifolia)	**Ramwant Gupta,** RD Sharma, C L Verma, · S N Shashtri	Acta Physiologiae Plantarum	2023	1861-1664	https://www.springer.com/journal/11738	https://doi.org/10.1007/s11738-023-03585-w	IF: 2.9
6	A mathematical model to elucidate of photosynthetic apparatus in noni (Morinda citrifolia L.) to temperature stress	**Ramwant Gupta,** C L Verma, R Gupta & A Ansari	Vegetos	2023	2229-4473	https://link.springer.com/journal/42535	https://doi.org/10.1007/s42535-023-00725-y	1.1
7	Photosynthetic electron transport rate and root dynamics of finger millet in response to Trichoderma harzianum	**Ramwant Gupta**, Munna Singhb, and B. R Khan	Plant Signaling and Behavior	2022	1559-2324	10.1080/15592324.2022.2146373 (Taylor and Francis)		2.746
8	A model to mitigate salinity stress from seawater with cellular Mn	**Ramwant Gupta**, C. L. Verma and A. Ansari	Theoretical and Experimental Plant Physiology	2021	2197-0025	https://doi.org/10.1007/s40626-021-00224-y		1.949

	supplement in Zea mays							
9	Acclimation potential of Noni (*Morinda citrifolia* L.) plant to temperature stress is mediated through photosynthetic electron transport rate	**Ramwant Gupta**, R Sharma, M W Ansari....N Tuteja	Plant Signaling and Behavior		1559-2324	10.1080/15592324.2020.1865687 (Taylor and Francis)		2.746
10	The oxygen-evolving complex: a super catalyst for life on earth, in response to abiotic stresses	**Ramwant Gupta**	Plant Signaling and Behavior.	2020	1559-2324	10.1080/15592324.2020.1824721 (Taylor and Francis)		2.746
11	Energy dissipation and photosynthetic electron flow during the transition from juvenile red to a green leaf of mango (Mangifera indica)	**Ramwant Gupta**, R Sharma and M Singh	Plant Biosystems	2020	**1724-5575**	10.1080/11263504.2020.1810807 (Tylor and Francis)		2.838
12	Manganese repairs oxygen-evolving complex (OEC) in maize (Zea mays L.) damaged during seawater	**Ramwant Gupta**	Journal of Soil Science and Plant Nutrition.	2020	**0718-9516**	10.1007/s42729-020-00220-2 (Springer),		3.872

	vulnerability							
13	Ethylene mediated physiological response for in vitro development of salinity tolerant tomato	Y R Rao, M. W. Ansari, A. K. Singh, N. Bharti, V. Rani, A. Verma, **Ramwant Gupta** N. Tuteja and V R Kumar	Journal of Plant Interactions	2020	**1742-9153**	10.1080/17429145. 2020.1820591 (Taylor and Francis)		4.208
14	Tissue-specific disruption of photosynthetic electron transport rate in pigeon pea (Cajanus cajan L.) under elevated temperature	**Ramwant Gupta**	Plant Signaling and Behavior:	2019	1559-2324	10.1080/15592324.2019.1601952 (Taylor and Francis)		2.746
15	Response of stigma receptivity in cms and male fertile line of Indian mustard (B. juncea) under variable thermal conditions	A. Maity, S. K. Chakrabarty, P. Pramanik, **Ramwant Gupta,** S. S. Parmar and D. K. Sharma	International Journal of Biometeorology,	2019	1432-1254	10.1007/s00484-018-1645-9(Springer)		2.830
16	Phytoremediation: a green technology to clean up the sites with low and moderate levels of heavy metals.	H. Singh, A. Verma, M. Kumar, R. Sharma, **Ramwant Gupta**, M. Kaur, M. Negi and SK Sharma	Austin Biochemistry 2(2): 1012.: 2017	2017	2578-9481	https://austinpublishinggroup.com/biochemistry/fulltext/biochemistry-v2-id1012.php		1.2

17	Stigmatic receptivity determines the seed set in Indian mustard, rice and wheat crops	**Ramwant Gupta**, H.Sutradhar, S. K. Chakrabarty, M. W. Ansari and Y.Singh	Communicative & Integrative Biology.	2015	1942-0889	10.1080/19420889.2015.1042630(Taylor and Francis)		3.100
18	Pollen-pistil interaction in protogyny and self-incompatibility system of Indian mustard (Brassica juncea L. Czern & Coss.).	U. S. Chandrashekar, **Ramwant Gupta**, Manjunath Prasad, S. K. Chakrabarty and M. Dadlani	Grana	2014	1651-2049	10.1080/00173134.2014.897750 (Taylor and Francis		1.359
19	Photosynthesis gas exchange, chlorophyll fluorescence, antioxidant enzymes and growth responses of Jatropha curcus L. during soil flooding.	Krishan Verma, Munna Singh, **Ramwant Gupta** and C. L. Verma	Turkish Journal of Botany,	2014	1303-6106	https://doi.org/10.3906/bot-1212-32		1.489
20	Gibberellic acid in Plants: still a mystery unresolved.	**Ramwant Gupta** and S. K. Chakrabarty	Plant Signaling and Behavior.	2013	1559-2324	https://doi.org/10.4161%2Fpsb.25504 (Taylor and Francis)		2.746
21	Assessment of fertility restorer gene (Rf) in R-line and Moricandia based hybrid of Indian mustard	**Ramwant Gupta**, S. K. Chakrabarty, J. B. Yadav, and M. Dadlani	Indian Journal of Genetics and Plant Breeding. 73 (1): 98-100: 2013	2013	0975-6906	https://doi.org/10.5958/j.0019-5200.73.1.014		1.3

	using SCAR marker							
22	Assessment of genetic relatedness among Indian mustard (Brassica juncea L) genotypes by morphological traits and DNA markers	**Ramwant Gupta**, U. S. Chandrashekar, J. B. Yadav, S. K. Chakrabarty and M. Dadlani	Indian Journal of Agricultural Sciences: 2012	2012	0019-5022	82 (9): 746–752		0.257
23	A simple modified method of DNA extraction from seeds for PCR amplifications	**Ramwant Gupta**, U. S. Chandrasekhar, S. K. Chakrabarty and M. Dadlani	Indian Journal of Agricultural Sciences	2012	0019-5022	82 (1): 76–78.:		0.257
24	Response of photosynthesis, chlorophyll fluorescence and yield of finger millet (Eleusine coracana L.) influenced by bio-chemical fertilizers.	Ramwant Gupta, S.K. Pandey, A. K. Singh and Munna Singh	Indian Journal of Agricultural Sciences	2011	0019-5022	81(5): 445–449:		0.257
25	Micropropagation and total alkaloid extraction of Rauwolfia serpentine: An important anti-hypersensitive medical shrub.	R. N. Bahuguna, R. Joshi, G. Singh, A. Shukla, Ramwant Gupta and G. Bains	Indian Journal of Agricultural Sciences	2011	0019-5022	81(12): 1124-1129:		0.257

26	Performance of sweet pepper (Capsicum annum) varieties and economics under protected and open field conditions at Uttarakhand.	A. K. Singh, B. Singh and Ramwant Gupta	Indian Journal of Agricultural Sciences	2011	0019-5022	81(10): 973-975.		0.257
27	Influence of water application on photosynthesis, growth and biomass characteristics in Jatropha curcas.	K. K. Verma, S. Vatsal, Ramwant K. Gupta, Sanjay Ranjan, C. L. Verma, M. Singh	Current Botany,	2012	2220-4822	3(4): 26-30:		0.150
28	Performance of celery (Apium graveolens) in response to the combined effects of vermicompost and different vermiwash	Y.P. Arjune, S. Gomathinayagam, S. Jaikishun, Ramwant Gupta and A. Ansari	Indian Journal of Agronomy,	2022	0974-4460	67 (2): 216-219		0.22
29	In-silico prediction of domain involved in chilli protein interaction with chilli leaf curl virus and associated betasatellite encoded protein	V. Pandey, A.Srivastava, N Singh, **Ramwant Gupta,** Akhtar Ali and R. K. Gaur	Discover Plants	2024	3005-1207	https://link.springer.com/journal/44372	https://link.springer.com/article/10.1007/s44372-024-00016-z	Scopus

30	Mineral Profiling and Antimicrobial Effects of the West Indian Cherry (Malpighia emarginata DC.) Fruit Extracts Against Selected Pathogenic Bacteria	S October, S. Jaikishun, A. Ansari and Ramwant Gupta	Journal of Advances in Microbiology	2024	2456-7116		24(1):66-75 http://dx.doi.org/10.9734/jamb/2024/v24i1787	
31	A Model for Irradiance Response on Photosynthetic Apparatus in Mango (Mangifera indica) Leaves	Ramwant Gupta, CL Verma, S Jaikishun and A Ansari	Journal of Soil Salinity and Water Quality	2022	0976-0806	https://epubs.icar.org.in/ejournal/index.php/JoSSWQ/index	14(2), 271-282, https://epubs.icar.org.in/index.php/JoSSWQ/article/view/131124	
32	Elevated temperature disrupts pollen-pistil dynamics and seed set in Okra (Abelmoschus esculentus L. Moench)	NS Chand, Ramwant Gupta, B R Khan, and Sanjay Singh	Indian Journal of Plant Genetic Resources,	2022	0976-1926	35(2):224-232		
33	Growth and development of edible oyster mushrooms (Pleurotus ostreatus) in response to a wide range of organic substrates	Keziah Smith, Diana Seecharran, Abdullah Ansari and Ramwant Gupta	Annals of Agriculture,	2022	0970-3179	43(4): 483-491		
34	Growth performance	Sushmita K. Singh,	Journal of Natural	2021		Doi:10.51396/ANRC		

	and production economics of eggplant (Solanum melongena) in response to vermicompost vis-a-vis a chemical fertilizer application	S. Jaikishun, A. Ansari, G. Subramanian and Ramwant Gupta	Resource Conservation and Management			M.2.2.2021 .95-102		
35	ICT enabled agricultural transformation: Some notes for Fiji.	Ramwant Gupta and Anand Prakash Tyagi	Fijian Studies,	2017	1728-7456	15 (2): 152-159:		
36	Use of Bio-chemical fertilizer and Total Soluble Seed Protein of Finger millet (Eleusine coracana L.)	Ramwant Gupta and Munna Singh	Seed Research	2011	0379-5594	39(1): 63-66:		
37	Influence of bio-chemical fertilizers on growth and yield of Finger millet (Eleusine coracana L.).	Ramwant Gupta, K. Verma, K. P. Singh and Munna Singh	Pantnagar Journal of Research	2011	972-8813	9 (I): 96-101:		
38	Assessment of genetic relatedness among three varieties of finger millet with variable seed coat color using RAPD and ISSR markers.	Ramwant Gupta, KrishanVerma, Dinesh Joshi, Dinesh Yadav and Munna Singh	Genetic Engineering and Biotechnology Journal, Aston journals, USA,	2010	2150-3516	GEBJ-2, 1-9.		

8. Books and chapters in edited volumes / books published

BOOK			
Authors	Title	ISBN	Publisher/Year
Ramwant Gupta, and Munna Singh	Recent Physiological Advances of Finger millet	978-3-659-42807-4	Lap-Lambert Academic Publishing, Germany (2013)
Book Chapter			
Ramwant Gupta, A. Ansari and C. L. Verma,	Physiological responses and adaptation mechanisms in plants to elevated temperature *In* Understanding of Abiotic Stresses edited by Rajput, Verma and Minkina https://doi.org/10.52305/UBUJ4024	978-1-68507-508-8	Nova Science Publisher, Inc, NY, USA (2022)
Ramwant Gupta and Ravinesh Rohit Prasad	Dynamic photosynthetic apparatus in plants combats climate change in Global Climate Change and Plants Adaptation: A Recent Scenario edited by Verma, Ansari, Singh and Tuteja, https://doi.org/10.1002/9781119858553.ch8	978-1-11985-852-2	Wiley Publishing LLC, Hoboken, New Jersey
A. Bhardwaj, M.Devi, W. H., M. Ansar, Ramwant Gupta, , and Mohammad Wahid Ansari	Production of Secondary Metabolites from Medicinal Plants by Biotech-Based Technology *in* Scope of Phytochemically Unexplored Medicinal Plants;	978-1-63535-013-5.	Enriched Publications, India (2017)
Ramwant Gupta, Krishan Verma and Munna Singh	Effect of biochemical fertilizer on total soluble seed proteins of finger millet (*Eleusine coracana* L.) germplasm *in Biodiversity and Sustainable Agriculture* Edited by Gazala Rizvi and Manish Singh Paijwar	81-8329-399-0	Shree Publishers, India (2011)
Munna Singh, Ramwant Gupta and G S Chaturvedi	Molecular Physiological Advances in Salinity *in* Abiotic Stresses and Plant Productivity, Edited by P.C. Ram and G.S. Chaturvedi, *pp.* 139-145	978-81-7910-327-2	Aavishkar Publication, India (2010)

9. Papers in national/international conference-proceedings

SN	Authors	Title	Year	Conference
1	Ramwant Gupta	Enhancing photosynthetic efficiency in crops to ensure food security under varied climatic conditions	2025	International Conference on Advances in System Biology at Dr Hari Singh Gour Central University, MP, India from March 6-8, 2025
2	Ramwant Gupta	Sea-water Vulnerability Damages the Pho tosynthetic Apparatus of Maize (*Zea mays*) Seedlings	2024	VIII. International Seed Congress Granada Luxury Belek Antalya / TÜRKİYE From December 09-12 2024

3	Ramwant Gupta	The dynamics of photosyntheticmachineryin plants to mitigate climate change and ensure food security	2024	International Conference on “Inclusive and sustainable development through transformation, innovation and digitalization” at Balkumari College, Chitwan, Nepal from Nov 16-17, 2024
4	Ramwant Gupta	The structural and functional cohesiveness of plants' photosynthetic apparatus in response to abiotic stresses	2024	National Conference on Advanced Biotechnology & Biosystem (NC-ABB 2024) at Department of Biotechnology, D. D. U. Gorakhpur University, Gorakhpur, India From November 11-12, 2024
5	Ramwant Gupta	Plants photosynthetic apparatus in response to climate change	2024	Gandaki University International Conference GUIC- on Empowering Excellence: Global Collaboration in Research and Academia at Gandaki University, Nepal from Jan3-5, 2024
6	Ramwant Gupta and Munna Singh	Repercussion of climate change on the oxygen-evolving complex in plants	2023	National Conference on 'Current Trends in Biological Sciences For Sustainable Agriculture, Environment and Health Under Climate Change at University of Lucknow from November 23-25,2023
7	Ramwant Gupta and Sanjay Singh	Improving photosynthetic electron transport and carbon-dioxide flow in the leaves of finger millet to enhance the yield	2023	National Seminar on “Recent Approaches for Production & Value Addition of Millets (Shree Anna) in Changing Climate Scenario" at Integral University, Lucknow, 29 Sept. 2023
8	Ramwant Gupta, C. L. Verma	A model for irradiance response on photosynthetic apparatus in mango (Mangifera indica) leaves	2022	In 4th International Conference on Global Agriculture, Forestry, Environment and Food Security at Institute of Forestry, Tribhuvan University, Pokhara Campus Pokhara, Nepal from September 17-19, 2022.pp 1
9	Ramwant Gupta, C. L. Verma, and A. Ansari	Development of a mathematical model to determine acclimatization potential in photosynthetic electron transport of noni (*Morinda citrifolia* L.) to temperature stress	2021	In 2nd International Web-Conference on Smart Agriculture for Resource Conservation and Ecological Stability, October 29 and 30,

				2021 Lucknow INDIA, pp 16
10	Ramwant Gupta, C. L. Verma, A. Ansari and Ramchandra	The photosynthetic apparatus of maize (*Zea mays* L.) damages during sea-water exposure	2021	In an International seminar on agriculture sustainability for doubling income in changing climatic scenarios and market challenges during COVID-19, 10-11 April, 2021, pp 37, Allahabad INDIA
11	Ramwant Gupta and R. Sharma	Energy dissipation and photosynthetic electron flow during the transition from juvenile red to a green leaf of mango *(Mangifera indica)*	2020	In National Conference in Omics for food health and environment, pp 45-46 INDIA
12	Ramwant Gupta	Manganese repairs oxygen evolving complex (OEC) in maize (Zea mays L.) damaged during sea water vulnerability	2019	Global Forum on Innovation for Marginal Environments. ICBA Dubai, UAE
13	Sumantla Varman and Ramwant Gupta	Nutraceutical profiling of local varie ties of rice in Fiji	2016	Pacific Islands Health Research Symposium "Showcasing Emerging Health Research" Holiday Inn: Suva; Fiji Islands
14	Ramwant Gupta, Hrishikesh Sutradhar, S. K. Chakrabarty and Yogendra Singh	Seed set determination using stigma receptivity based on biochemical study in field crop	2012	*In* International Conference on Biotechnology: A Rendezvous with Basic Sciences for Global Prosperity *pp*. 120-121, INDIA
15	S.K. Chakrabarty, Ramwant Gupta and J.B. Yadav	Flowering and seed yield attributes of oilseed Brassica species in relation to environmental change.	2012	*In* National Seminar on Indian Agriculture : Preparedness for Climate Change, *pp.* 17-18 INDIA
16	Ramwant Gupta, S. K. Chakrabarty and J. B. Yadav	Identification of *S-alleles* associated with protogyny and self-incompatibility in Indian mustard (*Brassica juncea* l. Czern & Coss) using molecular markers	2012	*In* International Conference on Plant Biotechnology and food security, *pp.* 63-64. INDIA
17	Ramwant Gupta, S. K. Chakrabarty and J. B. Yadav	Validation of male fertile restorer (R_f) gene in R line and their respective hybrids in Indian mustard using SCAR marker	2012	*In* National Seed Congress, *pp.* 189-190. INDIA
18	Ramwant Gupta, U. S. Chandrashek ar, S. K.	A simple modified method of DNA extraction from seeds for PCR amplifications	2011	*In* National Seed Congress, *pp.*266 INDIA

	Chakrabarty and M. Dadlan			
19	Ramwant Gupta, Rishendra Kumar and K. P. Singh	Biophysical Non-Invasive Screening of Cucumber Germplasms Against Chilling Stress	2010	*In* Fourth International Conference on Plants & environmental pollution, *pp.* 19-20. INDIA
20	Ramwant Gupta, U. S. Chandrashekar, J. B. Yadav, S. K. Chakrabarty and M. Dadlani	Genetic relatedness among Seventeen genotypes of Indian mustard (*Brassica juncea* L.) using RAPD marker	2010	*In* National Conference of Plant Physiology on physiological and molecular approaches of crop improvement under changing environment, *pp.*353. INDIA
21	Ramwant Gupta and Munna Singh	Effect of bio-chemical fertilizer on total soluble seed proteins of finger millet (*Eleusine coracana* L.) germplasm	2010	*In* National conference on Role of Biodiversity in Sustainable Agriculture, *pp.*76. INDIA
22	Ramwant Gupta and Munna Singh	Effect of bio-chemical fertilizers on photosynthesis, chlorophyll fluorescence and yield of finger millet (*Eleusine coracana* L.).	2010	*In* International workshop on Rhizosphere Biology of Agriculture, Horticulture & Forestry: Present & Future, *pp.* 133. INDIA
23	Ramwant Gupta, D.C. Joshi, Rikhesh Srivastava and Munna Singh	Comparative study of RAPD and ISSR markers for the molecular characterization of finger millet germplasm.	2009	*In* International Conference on Nurturing arid Zones for People and the Environment: Issues and Agenda for 21st Century, pp. 226-227. INDIA
24	Ramwant Gupta and Munna Singh	Influence of bio-chemical fertilizers on growth and yield of finger millet (*Eleusine coracana* L.).	2009	*In* 4th Uttarakhand Council for Science & Technology Congress, *pp.*51. INDIA
25	Ramwant Gupta, G. Saxena, R. K. Srivastava, Hukum Singh, K. P. Singh and Munna Singh	Biochemical characterization and its taxonomical significance in few members of Labiatae *Salvia sclaria* and *Pogostemon cablin.*	2008	*In* National Conference on Increasing Production and Productivity of Medicinal and Aromatic Plants through Traditional Practices, *pp.* 74 INDIA

10. Research projects sponsored by government agencies

S. No.	**Name of the principal Investigator**	**Name of the Research Project**	**Name of funding agency**	**Amount/Fund provided**	**Year of sanction**	**Duration of the project**	**Status (Completed/Ongoing)**

1	Dr Ramwant Gupta	Improving photosynthetic electron transport and carbon dioxide (CO_2) flow in the leaves of finger millet to enhance yield	U. P. Council of Agricultural Research (UPCAR), Lucknow, U.P. INDIA	73.14 Lakh	2024	3 years	Ongoing
2	Dr Ramwant Gupta	Dynamics of photosynthetic apparatus during the pre-zygotic stage of wheat in response to elevated temperature	U. P. Council of Agricultural Research (UPCAR), Lucknow, U.P. INDIA	24.16 Lakh	2024	3 years	Ongoing
3	Dr Ramwant Gupta (C0-PI)	Nutraceutical profiling of local landraces of rice in Fiji.	Fiji National University	8000 FJD	2015	12 Months	Completed
4	Dr Ramwant Gupta (C0-PI)	Improvement of the efficiency of double haploid (DH) production in some solanaceae and cucurbetaceae species via androgenesis.	CRC, CEST, Fiji National University, Fiji Islands	2, 97,000 FJD	2015	3 years	Closed

11. Editorial Boards

1. **Managing Editor,** Journal of Biotechnology and Crop Science (P-ISSN 2349-9885 • e-ISSN 2582-5089) published by The Society of Crop Scientist and Biotechnologist, Banaras Hindu University, Varanasi, India
2. **Associate Editor:** International Journal of Agricultural and Applied Sciences (ISSN 2582-8053) published by Agricultural and Environmental Technology Development Society (AETDS), located at Uttarakhand, India.
3. **Assistant Editor:** VEGETOS: An International Journal of Plant Research & Biotechnology (ISSN 0970-4078) published Springer Nature Singapore, Singapore

12. Invited Speaker

1. **Ramwant Gupta:** Manganese repairs oxygen evolving complex (OEC) in maize (Zea mays L.) damaged during sea water vulnerability *In* **Global Forum** on Innovation for Marginal Environments at ICBA Dubai, UAE from November 19-20, 2019.
2. **Ramwant Gupta:** Energy dissipation and photosynthetic electron flow during the transition from juvenile red to a green leaf of mango *(Mangifera indica) In* **National Conference** in Omics for food health and environment at Department of Biotechnology, DDU University, Gorakhpur, India from February 14-15, 2020.
3. **Ramwant Gupta:** The oxygen-evolving complex: a super catalyst for life on earth, under influence of abiotic stresses *In* **Faculty of Natural Science's seminar series** at University of Guyana, Georgetown, South America on August 24, 2021
4. **Ramwant Gupta:** Photosynthetic water splitting complex (WSC) in response to abiotic stress *In* a **value-added course in biotechnology** on biotechnology for human welfare Department of Biotechnology, DDU University, Gorakhpur, India from December 27-31, 2021.
5. **Ramwant Gupta:** Photosynthesis Solutions to Enhance Productivity in Crops *In* **Training program** of NAHEP-CAAST Project for M.Sc and Ph.D. Students on off-season protected cultivation of vegetable crops at Centre for Protected Cultivation Technology, ICAR-IARI, New Delhi, India from January 20 - February 3, 2022.
6. **Ramwant Gupta:** Engineering photosynthesis to improve crops yield in response to global climate change *In* the "Regional Conference on Prioritizing Crop-Specific Technologies for Sustainable Profitability: The Uttar Pradesh Chapter" at Institute of Sugarcane Research, Lucknow, India from April 29-30, 2022
7. **Ramwant Gupta:** A model for irradiance response on photosynthetic apparatus in mango (*Mangifera indica*) leaves *In* 4th International Conference on Global Agriculture, Forestry, Environment and Food Security at Institute of Forestry, Tribhuvan University, Pokhara Campus Pokhara, Nepal from September 17-19, 2022.
8. **Ramwant Gupta:** Dynamics photosynthetic apparatus in plants for combating climate change *In* celebration of "Azadi Ka Amrit Mahotsav" and "The Mission LiFE" at Forest Research Institute, Dehradun, Uttarakhand, India on 22 March, 2023.
9. **Ramwant Gupta:** Manuscript preparation and publications in peer reviewed journals *In* workshop on "Personality Development to PG students under ICAR-NAHEP at University of Agricultural Sciences, Raichur, Karnataka on 27 July, 2023
10. **Ramwant Gupta:** Improving photosynthetic electron transport and carbon-dioxide flow in the leaves of finger millet to enhance the yield *In* National Seminar on "Recent Approaches for Production & Value Addition of Millets(Shree Anna) in Changing Climate Scenario" at Integral University, Lucknow, 29 Sept. 2023.
11. **Ramwant Gupta:** Repercussion of climate change on the oxygen-evolving complex in plants *In* National Conference on 'Current Trends in Biological Sciences For Sustainable Agriculture, Environment and Health Under Climate Change at University of Lucknow from November 23-25,2023

12. **Ramwant Gupta:** Academic Bank of Credits: Enabling students mobility cross Higher Education Institutions on NEP Orientation and Sensitization Program at Malviya Mission Teacher Training Centre (UGC- Human Resource Development Centre) DDU Gorakhpur University, Gorakhpur, India from Nov 23-30, 2023.
13. **Ramwant Gupta:** Plants photosynthetic apparatus in response to climate change In A Refresher Course on 'Life Sciences and Bio-technology' at Doctor Harisingh Gour Vishwavidyalaya, Sagar , MP, INDIA from Dec 6-19 Dec 2023.
14. **Ramwant Gupta:** Plants photosynthetic apparatus in response to climate change *In* Gandaki University International Conference GUIC-2024 on Empowering Excellence: Global Collaboration in Research and Academia at Gandaki University, Nepal from Jan3-5, 2024.
15. **Ramwant Gupta:** Academic Bank of Credits: Enabling students mobility cross Higher Education Institutions on 7th Faculty Induction Program at Malviya Mission Teacher Training Centre (UGC- Human Resource Development Centre) DDU Gorakhpur University, Gorakhpur, India from Jan6-Feb 4, 2024.
16. **Ramwant Gupta:** Academic Bank of Credits: Enabling students mobility cross Higher Education Institutions on Online 06th Malaviya Mission Teacher Training Programme (NEP-Orientation and Sensitization) for teachers of Universities and Colleges at Malviya Mission Teacher Training Centre (UGC- Human Resource Development Centre) DDU Gorakhpur University, Gorakhpur, India from May 27 –June 05, 2024.
17. **Ramwant Gupta:** Remodeling photosynthetic Apparatus in Plants: An Innovative approach to food security *In* A Value added Course on "Biotechnology and its role in sustainable development organized by the Department of Biotechnology, Deen Dayal Upadhyaya Gorakhpur University, Gorakhpur (U.P) India from June 15-30, 2024.
18. **Ramwant Gupta:** The structural and functional cohesiveness of plants' photosynthetic apparatus in response to abiotic stresses In National Conference on Advanced Biotechnology & Biosystem (NC-ABB 2024) Department of Biotechnology, DDU Gorakhpur University, Gorakhpur, India November 11-12, 2024.
19. **Ramwant Gupta:** The dynamics of photosynthetic machinery in plants to mitigate climate change and ensure food security In International conference on inclusive and sustainable development through transformation, Innovation and digitalization at Balkumari College, Tribhuvan University , Nepal from Nov 16-17, 2024.
20. **Ramwant Gupta:** Academic Bank of Credits: Enabling students mobility cross Higher Education Institutions on 8th Faculty Induction Program at Malviya Mission Teacher Training Centre (UGC- Human Resource Development Centre) DDU Gorakhpur University, Gorakhpur, India from July 23-Aug 21, 2024.
21. **Ramwant Gupta:** Academic Bank of Credits: Enabling students mobility cross Higher Education Institutions on 9th Faculty Induction Program at Malviya Mission Teacher Training Centre (UGC- Human Resource Development Centre) DDU Gorakhpur University, Gorakhpur, India from Jan 28 - Feb 24, 2025,
22. **Ramwant Gupta:** Enhancing photosynthetic efficiency in crops to ensure food security under varied climatic conditions in **I**nternational Conference on Advances in System Biology at Dr Hari Singh Gour Central University, MP, India, India from March 6-8, 2025

13. Membership in Scientific Society/Board

- Lifetime member, Indian Society for Seed Technology, New Delhi, India
- Lifetime member, Society for Science of Climate Change and Sustainable Environment, New Delhi, India
- Member, Faculty Board, Faculty of Natural Sciences, University of Guyana, Georgetown, Guyana
- Faculty representative, Faculty of Health Sciences, University of Guyana, Georgetown, Guyana
- Member, Board of Studies, Faculty of Agriculture, DDU Gorakhpur University, Gorakhpur, India

- Member, Board of Studies, Department of Botany, DDU Gorakhpur University, Gorakhpur, India
- Member, Deen Dayal Upadhayay sodhpeeth, DDU Gorakhpur University, Gorakhpur, India
- Member, Ranking cell, , DDU Gorakhpur University, Gorakhpur, India
- Member Secretary, Twining, Dual and Joined degree progamme, DDU Gorakhpur University, Gorakhpur, India

14. Training/Workshop/Seminar/Conferences Organized

1. Member, Coordination Committee to organizing 4th Uttarakhand State Science & Technology Congress at G.B. Pant University of Agriculture and Technology, Pantnagar, Uttarakhand on Nov.10-12, 2009
2. Member, Coordination Committee to organizing AARDO Capacity Building Programme on Seed Production and Quality Evaluation at Division of Seed Science and Technology, IARI, New Delhi on Oct 22-Nov. 6, 2010
3. Member, Coordination Committee to organizing AARDO Capacity Building Programme on Seed Production and Quality Evaluation at Division of Seed Science and Technology, IARI, New Delhi on Oct. 17-29, 2011
4. Exhibitor, Ministry of Agriculture, Govt. of India, India International Trade Fair (IITF), New Delhi on Nov. 14-29, 2011
5. Member, Coordination Committee to organizing National Workshop on Out Scaling Farm Innovation organized by TAAS, ICAR and APAARI at NAAS Complex New Delhi on 3-5 Sept 2013
6. Member, Coordination Committee to organize a training program on Seed Production and Seed Quality Evaluation for Nigerian Officials at Seed Science and Technology, IARI New Delhi on Jan. 20 -08 Feb. 2014
7. Member, Coordination Committee to organizing AARDO Capacity Building Programme on Seed Production and Quality Evaluation at Division of Seed Science and Technology, IARI, New Delhi on March 3-16, 2014
8. Executive Chairman of the conference organizing committee, 4th International Conference Global Agriculture, Forestry, Environment and Food Security, September17-19, 2022, Institute of Forestry, Tribhuvan University, Pokhara Campus Pokhara, Nepal.
9. Co-Chairman in the oral session under the theme Climate Change and its Impact in the 4th International Conference Global Agriculture, Forestry, Environment and Food Security, September17-19, 2022, Institute of Forestry, Tribhuvan University, Pokhara Campus Pokhara, Nepal.
10. Member, Advisory committee, National Conference on 'Current Trends in Biological Sciences For Sustainable Agriculture, Environment and Health Under Climate Change at University of Lucknow from November 23-25,2023
11. Chairman in the oral session on Buddhism and Ecology in 5th International Symposium on Asian Natural Philosophy: Nature and Civilization at Lumbini Buddhist University, Lumbini, Nepal from Feb.14-17, 2024
12. Coordinator, Faculty Leadership Summit organized by American Chemical Society at DDU Gorakhpur University from Sept 5-6, 2024.
13. Member, Scientific Committee, VIII. International Seed Congress Granada Luxury Belek Antalya / TÜRKİYE From December 09-12 2024
14. Coordinator, National Conference on Sustainable Food Security (SFS-2025, SDG-2) at Department of Botany, DDU Gorakhpur University, Gorakhpur India on March 11, 2025.
15. Co-Chairman, Technical Session-1 in International conference on Biotechnological applications in Ayurveda and Biomedical Sciences (BAAB-2025) at Mahayogi Gorakhnath University, Gorakhpur, India from March 30-April 1, 2025.

15. PG Student Supervision:

- Nandeeta Chand, Forest Biology: Pollen-pistil dynamics and seed development in Okra (*Abelmoschus esculentus*) at University of Guyana, Georgetown, South America (2017-19).
- Shivangani Singh, Plant Biotechnology: Effect of elevated temperature on pollen viability and stigma receptivity of *Solanum melonngena* L at DDU Gorakhpur University (2022-23).
- Anuradha Singh, Plant Biotechnology: Elevated temperature adversely affect pollen viability and stigma receptivity of sweet pepper (*Capsicum annum*) at DDU Gorakhpur University (2022-23).
- Shalini Maurya, Botany: Effects of HCl priming on germination of Tomato (*Solanum lycopersicum* L.) seeds) at DDU Gorakhpur University (2023-24).
- Shivangini Yadav, Botany: Effect of seed priming on the germination and seedling growth of Maize (*Zea mays*) in response to salinity at DDU Gorakhpur University (2023-24).

Pursuing students

- ✓ Ph. D in Botany: 4 students

16. Courses Teach

UG	PG	PhD
BOT104: Archegoniates and Plant Architecture (Plant Embryology)	**BOT508:** Angiosperms II: Morphology, Embryology and Anatomy	**BOT701:** Research Methodology in Botany
BOT201: Flowering Plants Identification & Aesthetic Characteristics (Modern trends in Plant taxonomy)	**BOT 514:** Plant Physiology	**BOT702:** Innovative Research Approaches in Botany
BOT301: Plant Physiology, Metabolism & Biochemistry (Plant water relation and Carbon metabolism)	**BOT518:** Advance Plant Physiology	
BOT305: Cytogenetics, Plant Breeding & Nanotechnology (Cell Biology and Genetics)	**BOT532:** Biostatistics and Data Handling	
	BOT535: Biodiversity and its Conservation	

17. Research Profile

Google Scholar https://scholar.google.co.in/citations?user=nUCVQRAAAAAJ&hl=en

Research gate: https://www.researchgate.net/profile/Dr_Ramwant_Gupta/scores

Scopus:https://www.scopus.com/authid/detail.uri?authorId=7501324934

Web of Science ID (CAF-4422-2022): https://publons.com/researcher/5230368/ramwant-gupta/

ORCID: https://orcid.org/0000-0001-8243-5443

Ramwant Gupta