CURRICULUM VITAE

Dr. Ramwant Gupta
Associate Professor
Department of Botany
Deen Dayal Upadhyay Gorakhpur University, Gorakhpur, UP, India
Email: ramwant.bot@ddugu.ac.in
Mob# +917048924787
Whatsapp# +5926435027

1. **Research/Teaching Experience: 14 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, Consultancy and collaborations, Research and Development Cell, Deen Dayal Upadhyay Gorakhpur University, Gorakhpur, UP, India 3. Member Secretary, Twining, Joint and Dual Degree Program, Deen Dayal Upadhyay Gorakhpur University, Gorakhpur, UP, India 4. Nodal Officer, Study in India program, DDUGU, Gorakpur 5. Member, Students Grievance Redressal Committee (SGRC), DDU Gorakhpur University, UP, India 6. Coordinator, Information and Technology Centre (ITC) Cell, Deen Dayal Upadhyay Gorakhpur University, Gorakhpur, UP, India (April 2023-Oct

	2023) 7. G20 Ambassador, 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

11. International/National award/recognition for academics

S. No.	Name of the award/recognition	Year of Award	National/International	Awarding Agency
1	Research Fellow of from 14 May 2024 to 31 December 2025	2024	International (Malaysia)	INTI International University, Malaysia
2	Fellow Award	2022	International (Photobiology)	Agriculture and Environmental technology development society (AETDS) at Institute of Forestry, Tribhuvan University, Pokhara Campus Pokhara, Nepal.
3	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.
4	Best Paper Award	2021	International	Academy of Natural Resource Conservation and Management, Lucknow, India.

5	Excellent Scientist Award	2021	National	Indian Council of Agricultural Research and National Institute of Plant Biotechnology, New Delhi, India
6	Foreign Fellow Award	2020	International	The Society for Science of Climate Change and Sustainable Environment, New Delhi, India

12. 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	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
2	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
3	Photosynthetic electron transport rate and root dynamics of	**Ramwant Gupta**, Munna Singhb, and B. R	Plant Signaling and Behavior	2022	1559-2324	10.1080/15592324.2022.2146373 (Taylor and Francis)		2.746

	finger millet in response to Trichoderma harzianum	Khan						
4	A model to mitigate salinity stress from seawater with cellular Mn supplement in Zea mays	**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
5	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
6	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
7	Energy dissipation and photosynthetic electron flow during the transition from juvenile red to a green leaf of mango (Mangifera	**Ramwant Gupta**, R Sharma and M Singh	Plant Biosystems	2020	**1724-5575**	10.1080/11263504.2020.1810807 (Tylor and Francis)		2.838

	indica)							
8	Manganese repairs oxygen-evolving complex (OEC) in maize (Zea mays L.) damaged during seawater vulnerability	**Ramwant Gupta**	Journal of Soil Science and Plant Nutrition.	2020	**0718-9516**	10.1007/s42729-020-00220-2 (Springer),		3.872
9	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
10	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
11	Response of stigma receptivity in cms and male fertile line of Indian mustard (B. juncea) under variable thermal	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

	conditions							
12	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
13	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
14	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
15	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
16	Gibberellic acid in Plants: still a	**Ramwant Gupta** and S. K.	Plant Signaling and	2013	1559-2324	https://doi.org/10.4161%2Fpsb.25		2.746

	mystery unresolved.	Chakrabarty	Behavior.			504 (Taylor and Francis)		
17	Assessment of fertility restorer gene (Rf) in R-line and Moricandia based hybrid of Indian mustard using SCAR marker	**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
18	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
19	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
20	Response of photosynthesis, chlorophyll fluorescence and yield of finger millet (Eleusine coracana L.) influenced by bio-chemical	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

	fertilizers.							
21	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
22	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
23	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
24	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
25	Mineral Profiling and	S October, S.	Journal of Advances	2024	2456-7116	24(1):66-75 http://dx.do		

	Antimicrobial Effects of the West Indian Cherry (Malpighia emarginata DC.) Fruit Extracts Against Selected Pathogenic Bacteria	Jaikishun, A. Ansari and Ramwant Gupta	in Microbiology			i.org/10.9734/jamb/2024/v24i1787		
26	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		
27	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		
28	Growth performance and production economics of eggplant (Solanum melongena) in response to vermicompost vis-a-vis a chemical fertilizer	Sushmita K. Singh, S. Jaikishun, A. Ansari, G. Subramanian and Ramwant Gupta	Journal of Natural Resource Conservation and Management	2021		Doi:10.51396/ANRCM.2.2.2021.95-102		

	application							
29	ICT enabled agricultural transformation: Some notes for Fiji.	Ramwant Gupta and Anand Prakash Tyagi	Fijian Studies,	2017	1728-7456	15 (2): 152-159:		
30	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:		
31	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:		
32	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.		

13. 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.	Physiological responses and adaptation mechanisms in plants to elevated temperature *In* Understanding of Abiotic Stresses edited by	978-1-68507	Nova Science Publisher, Inc, NY, USA

L. Verma,	Rajput, Verma and Minkina https://doi.org/10.52305/UBUJ4024	-508-8	(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)

14. Papers in national/international conference-proceedings

SN	Authors	Title	Year	Conference
1	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
2	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
3	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
4	Ramwant	A model for irradiance response on	2022	In 4th International

	Gupta, C. L. Verma	photosynthetic apparatus in mango (Mangifera indica) leaves		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
5	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
6	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
7	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
8	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
9	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
10	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
11	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
12	Ramwant	Identification of *S-alleles* associated	2012	*In* International Conference

	Gupta, S. K. Chakrabarty and J. B. Yadav	with protogyny and self-incompatibility in Indian mustard (*Brassica juncea* l. Czern & Coss) using molecular markers		on Plant Biotechnology and food security, *pp.* 63-64. INDIA
13	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
14	Ramwant Gupta, U. S. Chandrashekar, S. K. Chakrabarty and M. Dadlan	A simple modified method of DNA extraction from seeds for PCR amplifications	2011	*In* National Seed Congress, *pp.*266 INDIA
15	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
16	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
17	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
18	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
19	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
20	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
21	Ramwant Gupta, G. Saxena, R. K.	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

	Srivastava, Hukum Singh, K. P. Singh and Munna Singh			Traditional Practices, *pp.* 74 INDIA

15. 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

16. 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

17. 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:** Remodeling photosynthetic Apparatus in Plants: An Innovative approach to food security In Value added Course on "Biotechnology and its role in sustainable development Department of Biotechnology, DDU Gorakhpur University, Gorakhpur, India from June 15-30 2024.

18. 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

19. 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

20. 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: 2 students

21. 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	

23. 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