




Name	Dr. V.P. Singh		
Designation	Professor & UGC-BSR Faculty Fellow		
Department	Department of Plant Science		
Address (Campus)	M.J.P. Rohilkhand University, Bareilly - 243006 (U.P.).		
(Residence)	& President, Indian Botanical Society (2018)		
	S-3/13 Greater Green Park, Bareilly - 243006 (U.P.).		
Date of Birth	25.11.1954		
Phone No (Office)	0581-2521416	Res. 0581-2520186	
Mobile	98373-71388		
Email	singhvp03@yahoo.com		
Education			
Subject	Institution	Year	Details
M.Sc.	Agra University	1973	Subjects: Botany
Ph.D	Agra University	1978	Thesis topic: Improvement of Mung Bean.....Mutagenesis.
Career Profile			
Organisation / Institution	Designation	Duration	Role
Hindu college Moradabad	Lecturer	Aug.1973-Feb.1985	Teaching & Research
MJP Rohilkhand University, Bareilly	Reader	Feb.1985-Aug.1995	Teaching & Research
MJP Rohilkhand University, Bareilly	Professor	Aug.1995-June 2017	Teaching & Research
MJP Rohilkhand University, Bareilly	UGC-BSR Faculty Fellow	1 st July, 2017 – 30 th June, 2020	Research
Research Interests / Specialization			
Cytogenetics, Plant Breeding, Environment Management.			
Teaching Experience (Subjects/Courses Taught)			
11Yrs. & 6 Months (U.G. & P.G.) Cytogenetics, Taxonomy, Plant Breeding (1973-1985). 32 Yrs (P.G.) Environmental Biology, Genetics, Plant Breeding & Biostatistics (1985-continuing).			

Honors & Awards

- A. Elected President, Indian Botanical Society (2018).
- B. President (Plant Science Section), Indian Science Congress (2017).
- C. Awarded U.G.C. Basic Science Research Faculty Fellowship Award (01.07.2017-30.06.2020) (Awarded to Professors to continue their research after retirement for three years by UGC/MHRD, New Delhi).
- D. Elected Fellow of the Society of Plant Reproductive Biology (2013).
- E. Awarded Distinguished Service Award (2013) by Bareilly College, Bareilly.
- F. Elected Secretary, Indian Botanical Society (2011-13) and re-elected up to 31st March, 2017.
- G. Awarded Best Teacher Award in 2006 (by Society for Plant Research, Meerut), 2007 (by Agrasen Society, Bareilly) and 2008 (by Bareilly Scholar Education Society).
- H. Elected Vice President, Indian Botanical Society (2003).
- I. Elected Fellow of Mendelian Society of India (1986).
- J. Elected Fellow of Indian Botanical Society (1984).

Research Experience

- A. Specialization: Genetics & Plant Breeding & Environmental Biotechnology.
- B. Published 89 research papers with some in **Thomposon Reuters Science Citation Indexed Journals i.e. Scientific Reports (Nature Publishing Group) (IF 5.078)**, J. of Hazardous Materials (Elsevier) (IF 5.52), Microbial Cell Factories (IF 4.116), Environ. Sci. Poll Res (IF 2.757), Peer J Preprints (IF 2.2), Virus Genes (IF 1.76), J. of Chemistry (IF 1.30), J. Plant Pathology (IF 0.97), Australian Plant Disease Notes (IF 0.96), J. Environ. Biology (IF 0.55), Current Science (IF 0.833), Indian J. of Agri. Sciences (IF 0.18), J. Bioremediation & Biodegrad.etc.
- C. 27 Students have been awarded Ph.D. degree under my supervision.
- D. Completed 07 major Research Projects sanctioned by UP, CST, Lucknow and U.G.C., New Delhi.
- E. Chaired papers reading sessions in 25 conferences and delivered key note address in 15 conferences.
- F. **Foreign Collaborations:**
Selected in INSA-DFG Scientist Exchange Programme in 1994 and worked at Institute of Crop Plant Research Gatersleben Germany and Visited Martin Luther University Halle and Kaiserleutern University, Germany for scientific discussions.

Project (Major Grants / Collaborations)

Completed 07 major Research Projects (04 Awarded by U.G.C. New Delhi and 01 U.P.C.S.T. Lucknow) and 01 minor Research Project awarded by U.P.C.S.T. Lucknow.

Year	Title	Source	Completed
2010-2013	Studies on the effects of EDTA and Citric acid on the Phytoremediation efficiency of <i>Brassica juncea</i> (L.).	UGC, New Delhi	Completed
2008-2011	“Decontamination of Heavy metals from Soil and Water through Phytoremediator Plants (The Vetiver System for Environmental Protection and Natural Disaster Management)”	University Sponsored Project	Completed
2005-2007	Studies on the effects of Heavy metals (Pb ⁺⁺ , Zn ⁺⁺ , Hg ⁺⁺) on Black gram & Pigeon Pea with its Phytoremediation through <i>Vetiveria zizanioides</i> (L) Nash and <i>Brassica juncea</i> (L)	UGC, New Delhi	Completed
1999-2002	Regulation of growth & Nitrogen Assimilation in Popular by growth regulators.	UP,CST, Lucknow	Completed
1996-99	Studies on the Effect of Industrial Waste Water	UGC, New Delhi	Completed

1986-90	Irrigation on Cytogenetical and Agronomical characteristics in some Pulse Crops. Improvement of Some Pulse Crops Trough Induced Mutagenesis.	UGC, New Delhi	Completed
1982-84	Reconstruction of Plant types through Induced Mutagenesis	UP,CST, Lucknow	Completed
Administrative Experience :			
<ol style="list-style-type: none"> 1) Pro-Vice Chancellor (Dec 2014 – Nov 2016). 2) Coordinator & Vice Chairman, IQAC (Dec 2014 – Nov 2016). 3) Dean, Faculty of Applied Sciences (1999 – 2003, 2010 - 2015). 4) Head, Department of Plant Science (1985-1987, 2001-2008, 2011-2014). 5) Coordinator, NAAC Steering Committee (2011-2014). 6) Chief Coordinator, Entrance Test Cell (2001 – 2016). 7) Chief Proctor (1999 - 2014). 8) Coordinator, Central Evaluation (2007 – 2010). 9) Dean Students Welfare (1989 – 1993). 10) Secretary, University Sports Council (1987-1990) 			
Consulting Activity:-			
<ol style="list-style-type: none"> 1- Appointed Chairperson/Member of NAAC Peer Team in various Universities of the country. 2- Appointed Expert in UGC Committee for evaluation of proposals under the scheme of Research Project Grant dated 01.10.2013 3- Nominated, Member Academic Council in AMT University, Gwalior by M.P. Private Regulatory Commission on 29.11.2013. 4- University Coordinator, U.P. B.Ed. combined Entrance Test 2007 conducted by C.S.M. University, Kanpur & 2008 conducted by Dr. B.R. Ambedkar University, Agra, 2010 Lucknow University, Lucknow, and 2011 M.J.P.Rohilkhand University, Bareilly, 2012 RML University Faizabad, 2013, DDU Gorakhpur University, Gorakhpur , 2014 Bundelkhand University, Jhansi and 2015 Lucknow University, Lucknow. 5- Member, Core-Committee, U.P. C.P.M.T. – 2004 organized by C.C.S. University, Meerut (U.P.). 6- Member, Coordination Committee, U.P. SLET.- 2004 Organized by C.S.M. University, Kanpur (U.P.). 7- Expert, U.G.C. Visiting Team for allocation of XI Five Year Plan Grant 2008. 8- Nominated member, Education advising committee Govt. Of U.P. 1997. 9- Referee in National / International Journals. 			
Other Details			
<ol style="list-style-type: none"> 1. Elected as Councillor (1996 – 1999 and 2008 – 2011) and member editorial Board (1999 – 2002 and 2017-2020) in Indian Botanical Society. 2. Organized UGC Refresher Course 7th Sept. – 27th Sept., 2001; from 3rd Oct.- 29th Oct., 2002. 28th Oct. – 20th Nov. 2003 as Coordinator. 3. Organized National Symposium on Biosciences : Advances, Impact and Relevance and Silver Jubilee Conference of Indian Botanical Society from 27th Oct.-29th Oct., 2002. as Organizing Secretary. 			

4. Organized Patent Awareness Workshop in collaboration with UP CST, Lucknow & DST, New Delhi on 27th Nov.2002. as organizing Secretary.
5. Councillor in Society of Plant Reproductive Biologist (2008-continuing).
6. Convener, BOS, Plant Science, RU. Bareilly.
7. Member, RDC, Plant Science and Academic Counsel, R.U. Bareilly.
8. Member, BOS & RDC other State/ Deemed Universities.
9. Delivered lectures in U.G.C. Refresher Course organized by Jiwaji University, Gwalior, R.D. University, Jabalpur, Ch.Ch. Singh University, Meerut and Department of Animal Science & Plant Science, Rohilkhand University, Bareilly.
10. Organized visit of U.G.C. Team (17-19 Sept. 2008 at MJPRU, Bareilly. As Coordinator for allocation of XI five year Plant Grant.
11. Organized workshop on “Role of IQAC in Assesment & Acreditation”on 22-23rd Dec.2012 & 27-29th Jan 2012” and 31st Jan. - 2nd Feb., 2014 and 22nd – 24th March, 2014, 13th – 15th Feb, 2015 as coordinator, NAAC Streering Committee/IQAC.
12. Organized Seminar on “Alcohol/Smoking/Drugs: Their deleterious effects on Human Body” on 23rd Jan., 2010, 5th March, 2011, 24th Jan., 2012 and 16th Jan., 2014 as Chief Proctor & Organizing Secretary.
13. Organized Conference of the Indian Botanical Society on Oct. 10-12, 2011 at Lucknow University, Lucknow (U.P.), Dec 8-10, 2012 at M.S. University, Vadodara (Gujrat), Oct. 18-20, 2013 at DDU Gorakhpur University, Gorakhpur (U.P.), Nov. 7-9, 2014 at V.G. Vaze College, Mumbai (Maharashtra), October 26th – 28th , 2015 at University of Rajasthan, Jaipur as Secretary, Indian Botanical Society.
14. Organized Prof. J.N. Rai Memorial Lecture in 2011, 2012, 2013 which was delivered by Prof. S.P. Khuller, Chandigarh, Prof. M. Anis, Aligarh, Dr. U.C. Lavania, Lucknow as Head of the Department.
15. Organized Prof. H.S. Srivastava Memorial Lecture in 2011, 2012, 2013 which was delivered by Prof. Arun Arya, Vadodara, Prof. A.K. Jain, Gwalior and Prof. D.K. Maheshwari, Haridwar as Head of the Department.

EXPERIENCE OF NAAC PEER TEAM VISITS:

- 1- Appointed member of NAAC Peer Team at Vikram University, Ujjain (M.P.) 21st -24th Sept., 2015.
- 2- Visited as Chairperson of NAAC Peer Team at Shri Shivaji Education Society, Amravati's Science College, Nagpur (Maharashtra), 18th to 20th Jan., 2016.
- 3- Visited as Chairperson of NAAC Peer Team at Shri P.N. Pandya Arts, M.P. Pandya Science & Smt. D.P. Pandya Commerce College, Lunawada (Gujrat) 22nd to 24th Jan., 2016.

4- Visited following institutions as Chairperson in NAAC Peer Team and accredited institutions-

A. Govt. Madhav Sadashiva Golwalkar College, Rewa (M.P.) 10th – 12th Nov., 2016.

B. Mongasaji Maharaj Mahavidyalaya, Yavatmal (Maharashtra) 5th – 7th Dec., 2016.

(I) NAAC ACTIVITIES AT UNIVERSITY LEVEL:

1. Organized NAAC Peer Team Visit at M.J.P. Rohilkhand University, Bareilly (U.P.) from 4th – 7th April, 2016 for 2nd Cycle of NAAC Accreditation as Pro-Vice Chancellor & Chairman, IQAC Cell.
2. Organized workshop on “Role of IQAC in Assessment & Accreditation” on 22nd -23rd Dec., 2012 & 27th - 29th Jan., 2012, 31st Jan. – 2nd Feb., 2014 & 22nd -24th March, 2014, 13th -15th Feb., 2015 and 28th Feb.- 1st March, 2016 & 27th – 29th March, 2016 as Coordinator, NAAC Steering Committee/IQAC.

Total Publication Profile :

Books

1. 2003 Edited Book on “Bio Science: Advances, Impact & Relevance”.
2. 2009 Chapter-19 “Use of Plant Genetic Resources for sustainable food and nutritional security: Today’s World need.” In Book Stable food production & Sustainable Agriculture, Published by Studium Press (India) Pvt. Ltd. New Delhi, pp.352-372.

In Indexed/ Peer Reviewed Journals;

Papers Published.

<u>Year of Publication</u>	<u>Title</u>	<u>Journal</u>	<u>Authors</u>
1. 1977	DMSO as a carrier agent for morphactin and dalapon in moong bean (<i>Phaseolus aureus</i> Roxb.)	<i>Comp. Physiol. Ecol.</i> 2(2):83-84.	V.P. Singh
2. 1978	Increased muagenic effects of EMS in Moong bean (<i>Phaseolus aureus</i> Roxb) DMSO	<i>J.Cytol. Genet.</i> 13:116-119	V.P. singh and S.N. Chaturvedi.
3. 1978	Enhancement of frequency and spectrum of NMU induced mutations in moong bean (<i>Phaseolus aureus</i> Roxb) by DMSO.	<i>Science and culture</i> 44(12):537-539.	V.P. singh and S.N. Chaturvedi,
4. 1979	Mutability of moong bean (<i>Phaseolus aureus</i> Roxb) induced by Gamma-rays & EMS during combined treatments.	<i>Agra Univ. J.Res.</i> XXVII (Part I):129-134.	V.P. singh and S.N. Chaturvedi,
5. 1980	Note on the induction of synchronous maturing mutants in green gram by alkylating agents	<i>Indian J.Agr. Sci</i> 50(8):631-633	V.P. singh and S.N. Chaturvedi,
6. 1980	Gamma-rays induced quantitative variation in moong bean (<i>Vigna radiata</i> (L) Wilczek)	<i>J.Cytol.Genet.</i> 15(1):64-67.	V.P. singh and S.N. Chaturvedi,
7. 1980	The productivity of some mutants of the moong bean (<i>Vigna radiata</i> (L) Wilczek.I. Bigger grain size and high yielding mutants	<i>J. Cytol. Genet.</i> 15 (2):152-155.	V.P. singh and S.N. Chaturvedi
8. 1980	Effects of recurrent gamma irradiation in seeds of <i>Vigna radiata</i> (L) Wilczek.	<i>Indian J. Heredity</i> 12(3):65-67.	V.P. singh and S.N. Chaturvedi
9. 1980	Mutagenic efficiency of EMS, NMU, Gamma-rays and their combined treatments	<i>Genetica Agraria</i> 34:331-343.	V.P. singh and S.N. Chaturvedi

10. 1980	in <i>Vigna radiata</i> (L) Wilczek The productivity of some mutants of moong bean (<i>Vigna radiata</i> (L) Wilczek)	<i>Genetica Agraria</i> 35:295-300.	V.P. singh and S.N. Chaturvedi
11. 1980	Combined effects of Gamma-rays with EMS, NMU, on the growth of moong bean (<i>Vigna radiata</i> (L) Wilczek)	<i>Comp. Physiol. Ecol</i> 5(1):17-18.	V.P. singh and S.N. Chaturvedi
12. 1981	Gamma-rays induced male sterile mutants in moong bean (<i>Vigna radiata</i> (L) Wilczek).	<i>PulseCrop Newsletter</i> 1(1):41.	V.P. singh and S.N. Chaturvedi
13. 1981	The productivity in induced mutants in moong bean	<i>Current Science</i> 50(13):603-60	V.P. singh and S.N. Chaturvedi
14. 1981	Effects of EMS, NMU, Gamma-rays in <i>Vigna radiata</i> (L) Wilczek.	<i>Acta Botanica India</i> 9(10):82-87.	V.P. singh and S.N. Chaturvedi
15. 1982	Variability, heritability and correlation studies on yield and its components in moong bean after mutagenic treatment.	<i>Acta Botanica India</i> 10:156.	V.P. singh and S.N. Chaturvedi
16. 1982	Comparative mutagenic effects of EMS, NMU, in <i>Vigna radiata</i> (L) Wilczek by DMSO.	<i>Indian J. Bot.</i> 5(1):54-57.	V.P. singh and S.N. Chaturvedi
17. 1982	Quantitative variation in moong bean induced by EMS, NMU, Gamma-rays and their combined treatments.	<i>J.Cytol. Genet.</i> 17:47-52.	V.P. singh and S.N. Chaturvedi
18. 1983	A contribution to angiospermic flora of Moradabad District, Uttar Pradesh	<i>J.Economic & Taxonomic Botany</i> 3:651-861.	N.K. Paliwal and V.P. Singh.
19. 1983	Effects of morphactin and Gamma-rays on growth and yield of Okra.	<i>Indian J.Bot.</i> 6(1) : 5-9.	N.K Paliwal and V.P. Singh.
20. 1983	Effects of EMS, NMU, Gamma-rays and their combined treatments in <i>Cyamopsis tetragonoloba</i> (L) Taub.	<i>J.Agric. Sci. Res.</i> 25:56-66.	S. Agarwal and V.P. Singh.
21. 1986	Quantitative variation and heritability estimate induced by EMS, NMU, Gamma-rays and their combined treatments in <i>Cyamopsis tetragonoloba</i> (L) Taub	<i>Mendel</i> 3 (2) :114-121.	Suman Agarwal and V.P. Singh.
22. 1986	Induced high yielding mutants in cluster bean.	<i>Indian J.Agric. Sci.</i> 56 (10) : 695-700.	Suman Agarwal and V.P. Singh.
23. 1989	A comparison in the mutagenic effects of EMS and Gamma-rays in sugarcane.	<i>J.Agric. Sci.</i> 31 :51-54.	B.D. Singh and V.P. Singh.
24. 1989	Gamma-rays induced polygenic variation and their Heritability estimates in sugarcane	<i>Bhartiya Sugar Feb.</i> , 37-41.	B.D. Singh, and V.P. Singh..
25. 1990	Induced high yielding mutants in pulse crops: Moong bean and Cluster bean	<i>Perspectives in Cytology & Genetics</i> 6:889-893.	V.P. Singh
26. 1991	The effect of different moisture contents in pre-gamma irradiated seeds of <i>Cajanus cajan</i> (L) Millsp	<i>J. Indian Bot. Soc.</i> 70:313-316.	A . Srivastava, and V.P. Singh.
27. 1991	Enhancement of EMS induced mutagenic effects in moong bean (<i>Vigna radiata</i> (L) Wilczek) by DMSO	<i>Indian J. Heredity</i> 23 (1-2):19-24.	R. Sharma, and V.P. Singh.
28. 1991	Effects of post-irradiation heat treatment on the induction of mutations in moong bean	<i>Indian J. Heredity</i> 37 (1&2) 25-31.	R. Sharma, and V.P. Singh.
29. 1992	The influence of altered moisture levels in	<i>J. Indian Bot. Soc.</i> 71	R. Sharma, and V.P.

	seeds on the induction of mutations with EMS and Gamma-rays in moong bean	(I-IV): 125-128	Singh
30. 1992	Male sterile mutants induced by Gamma-rays and EMS in pigeon pea	<i>J. Indian Bot. Soc.</i> 71(I-IV):227-278.	A. Srivastava, Alka Dubey, and V.P. Singh.
31. 1992	Gamma-rays induced male sterile mutants in mung bean.	<i>Mendel</i> 9:159-160.	R.Sharma, and V.P. Singh.
32. 1992	Mutagenic efficiency of EMS, NMU and Gamma-rays in <i>Cajanus cajan</i> (L) Millipis	<i>J. Agric. Sci. Res.</i> 31 (1&2) : 76-83.	A. Srivastava, and V.P. Singh.
33. 1993	The yield of synchronous maturing pigeon pea mutants	<i>Mendel</i> 10:53-54.	A. Srivastava, and V.P. Singh
34. 1993	Induced leaf mutants in moong bean.	<i>Current Science</i> 65:636-638.	R. Sharma, and V.P. Singh.
35. 1993	Induced polygenic variability in pigeon pea	<i>J. Indian Bot. Soc.</i> 72 (III & IV):281-284.	R. Sharma, and V.P. Singh.
36. 1993	Note on radioprotective effects of Gibberlic acid in Black Gram.	<i>J. Indian Bot. Soc.</i> 72 (3-4) : 285-287.	Alka Dubey, Alok Srivastava, and V.P. Singh.
37. 1994	Induced high yielding pigeon pea mutants.	<i>Mutation Breeding Newsletter</i> 42:8-9.	A..Srivastava, and V.P. Singh.
38. 1995	The influence of copper on the mutagenic efficiency of EMS in moong bean.	<i>J. Indian Bot. Soc.</i> 74:81-83.	R. Sharma., A. Srivastava, S. Sharma, and V.P. Singh
39. 1995	Correlation studies in Gamma-irradiated sugarcane	<i>Bhartiya Sugar</i> 22(1):91-93.	B.D. Singh, and V.P. Singh.
40. 1995	Correlation studies in NMU treated Sugarcane	<i>Int. J. Mendel</i> 13 (1&2):55.	B.D. Singh, and V.P. Singh
41. 1997	Effect of city waste water on the growth of Urd bean	<i>Int. J. Mendel</i> 14 (1&2).	S.K Sharma, Alok Srivastava, and V.P. Singh
42. 1997	Effect of rubber factory effluents on the growth of Urd bean	<i>J. Environ. Pollution</i> 4 (3) :17-177.	S.K Sharma, Alok Srivastava, and V.P. Singh.
43. 1997	Effect of terpentine factory effluent on the growth and pigment content in pigeon pea.	<i>J. Indian Bot. Soc.</i> 75:91-94.	Pitamber Singh, and V.P. Singh.
44. 1997	Phytotoxic effect of city waste on growth parameters and chlorophyll content in Pigeon Pea.	<i>J. Envi. Pollu.</i> 4(4):265-269.	Pitamber Singh, and V.P. Singh.
45. 1999	A comparative study of the mutagenic efficiency of Rubber factory effluent and city waste water in Black gram (<i>Vigna Mungo</i> (L) Hepper)	<i>J. Indian Bot. Soc.</i> 78-357-362.	S.K Sharma, and V.P. Singh.
46. 1999	Evaluation of Sugarcane germplasm for High yielding potential values.	<i>Perspectives in Cytology & Genetics</i> 10:54-57.	Pratap Singh, and V.P. Singh.
47. 2000	Induction of resistance to rubber factory effluent in Black gram through chemical mutagenesis.	<i>Physiology and Molecular Biology of Plants.</i> 6:157-161.	K.P. Singh, Alok Srivastava, and V.P. Singh.
48. 2002	Glutamine mediated induction of Nitrate reductase activity and Nitrate assimilation in Poplar Leaves.	<i>J. Indian. Bot. Soc.</i> 81:17-20.	Prakash, Anant, Alok Srivastava, and V.P. Singh.

49.2002	Genetic divergence in Sugarcane germplasm.	<i>Indian. J. of Ag. Sci.</i> 74 (4) : 251-252.	Pratap Singh, and V.P. Singh.
50.2006	The effect of Zn ²⁺ & Pb ²⁺ on nitrogen metabolism of <i>Vigna mungo</i> (L) Hepper.	<i>J. Indian Bot. Soc.</i> 85 :56-60	Vijay Kr. Sinhal, Alok Srivastava, and V.P. Singh.
51.2007	Optimization of Rooting in Micropropagated Shoots of Sugarcane.	<i>Sugar Tech</i> 9 (1) : 95-97.	M. Lal Ramanand, S.B. Singh, and V.P. Singh.
52.2007	Effect of Zinc on growth and NR Activity in Blackgram antagonized by Magnesium and Sucrose	<i>Indian J. Plant Physiology</i> 12 (1) : 95-99.	V. K Sinhal, S. K. Gupta, A. Srivastava, U.P. Singh, and V.P. Singh.
53.2007	Effects of Pb ²⁺ on growth & NR activity in <i>Vigna mungo</i> (L.) Hepper and its alleviation by sucrose treatment	<i>J. Indian Bot. Soc.</i> 86 (3-4): 113-117.	Vijay Kumar Sinhal, Alok Srivastava, and V.P. Singh.
54.2008	EDTA enhances lead uptake and facilitates phytoremediation by <i>Vetiver</i> grass	<i>J. Environ. Biology.</i> 29 (6): 903-906.	D.K Gupta, Alok Srivastava, and V.P. Singh.
55.2008	Evaluation of the effects of Zn ²⁺ on the growth of <i>Cajanus cajan</i> and its phytoremediation through <i>Helianthus annuus</i> .	<i>Ecology Environment and Conservation..</i> 14 (2-3) : 1-4.	Satish Kumar Gupta, Vijay Kumar Sinhal, Alok Srivastava, and V.P. Singh.
56.2008	First report of a Subgroup 1A Cucumber mosaic Virus isolate from gladiolus in India.	<i>Australian Plant Disease Notes</i> 3 : 35-37.	V.K. Dubey, Aminuddin and V.P. Singh.
57.2009	First report of Bean Yellow mosaic Virus (BYMV) in Gladiolus in India.	<i>J. Plant Pathology</i> 91 (4Sup.) S4 110.	V.K. Dubey, Aminuddin, and V.P. Singh.
58.2010	EDTA and Citric acid mediated Phytoextraction of Zn, Cu, Pb and Cd through Marigold.	<i>J. Environ. Biol.</i> 31 :225-259.	V. K. Sinhal, Alok Srivastava, and V.P. Singh.
59.2010	Molecular Characterization of Cucumber Mosaic Virus infecting Gladiolus revealing its phylogeny distinct from Indian isolate and alike the Fny strain of CMV.	<i>Virus Genes</i> 41 :126-134.	V. K. Dubey, Aminuddin, and V.P. Singh.
60.2010	Seasonal variation in nitrate reductase activity, Nitrate content, Amino-acid, Protein and total nitrogen contents in roots and leaves of <i>Populus deltoids</i> .	<i>Plant Archives</i> 10 (1): 153-158.	Anant Prakash, and V.P. Singh.
61.2010	<i>In vitro</i> morphogenesis in leaf sheath explants of sugarcane hybrid var: CoS 99259.	<i>Sugar Tech.</i> 12 (2): 172-175.	Y. Goel, M. Lal, M. L. Sharma, and V.P. Singh.
62.2011	Chelate assisted phytoremediation potentiality of <i>Vetiveria zizanioides</i> (L.) Nash against Pb and Cd by EDTA.	<i>Int.J.Env.Sci.</i> 1 :77-82.	Shabana, Alok Srivastava, and V.P. Singh.
63.2011	Antagonistic effect of Magnesium and Sucrose on the zinc induced toxicity in <i>Zea mays</i> .	<i>Int.J.Env.Sci.</i> 2 :119-124.	Amit Shukla, Alok Srivastava, and V.P. Singh.
64.2011	Zinc alleviates cadmium induced toxicity in <i>Vigna radiate</i> (L.) Wilczek.	<i>J. Phytology</i> 3 (8): 43-46.	Manoj Kumari, V. K. Sinhal, Alok Srivastava, and V.P. Singh.
65.2011	Cytogenetic effects of individual and combined treatment of Cd ²⁺ , Cu ²⁺ and Zn ²⁺ in <i>Vigna radiate</i> (L.) Wilczek.	<i>J. Phytology</i> 3 (8): 38-42.	Manoj Kumari, V. K. Sinhal, Alok Srivastava, and V.P. Singh.
66.2011	EDTA enhanced phytoextraction of Pb by Indian mustard (<i>Brassica juncea</i> L.).	<i>Plant Sciences Feed</i> 1 (9): 160-166.	Jitendra Kumar , Alok Srivastava, and V.P. Singh.
67.2012	Metabolism of 4-chloro-2-nitrophenol in a	<i>Microbial Cell</i>	Pankaj Kumar Arora, R.

	Gram-positive bacterium, Exiguobacterium sp.PMA	Factories, 11:150, 2-10.	Mehta, B.D. Shenoy, A. Srivastava, and V.P. Singh.
68. 2012	Potentiality of marigold for lead phytoremediation from artificially contaminated soil.	Ecol. Env. And Cons. 18(3): 677-681.	Shikha Saxena, Alok Srivastava, V.P. Singh and U.P. Singh.
69. 2013	Novel degradation pathway of 4-chloro-2-aminophenol via 4-chlorocatechol in Burkholderia sp. PKJ800	Environ. Sci. Poll. Res. DOI:10.1007/s11356-013-2167-y.	Pankaj Kr. Arora, A. Srivastava, and V.P. Singh.
70. 2014	Novel degradation pathway of 2-chloro-4-amino-phenol in Arthrobacter sp SPG	Peer J Preprints DOI 01/2014 2e194v	Arora PK, Srivastava Alok & Singh VP
71. 2014	Degradation of 4-chloro-3-nitrophenol via a novel intermediate, 4-chlororesorcinol by Pseudomonas sp.JHN.	Scientific Reports 4:4475 DOI: 10.1038/srep04475	Arora PK, Alok Srivastava & V.P. Singh
72. 2014	Metabolic pathway for degradation of 2-chloro-4-aminophenol by Arthrobacter sp.SPG	Microbial Cell Factories DOI 10.1186/s12934-014-0164-6	Pankaj Kumar Arora, Tapan Kr Mohanta, Alok Srivastava, Hangong Bae, Vijay Pal Singh
73. 2015	Expression of coat protein gene of Cucumber mosaic virus (CMV-subgroup IA) Gladiolus isotate in Nicotiana tabacum.	J. of Plant Interactions, DOI: 10.1080/17428145.2015.1101496	Vimal Kumar Dubey, Kottakota Chandrasekhar, Alok Srivastava, Aminuddin, Vijai Pal Singh, Kartic Dhar & Pankaj Kumar Arora
74. 2016	Diversity of 4-chloro-2-nitrophenol-degrading bacteria in a waste water sample	Journal of Chemistry DOI.org/10.1155/2016/7589068	Pankaj Kumar Arora, Alok Srivastava & Vijay Pal Singh
75. 2017	Citric acid and sucrose mediated phytoextraction of lead through marigold	Ecology, Env.and Conservation refer no. EEC- 23 (3)1472-1476 (NAAS impact rating 5.02, SCOPUSH index 9.0)	Shikha Saxena, Jitendra Kumar, Shabana, Alok Srivastava & V.P. Singh
76. 2018	Effect of EDTA & NTA on solubility of lead and cadmium and their uptake by vetiver grass.	Ecology, Env. and Conservation EEC-2919 (In press)	Shabana, Jitendra Kumar, Sikha Saxena, Alok Srivastava & V.P. Singh.

Articles

Review Articles Published in Books/Journals

<u>Year of Publication</u>	<u>Title</u>	<u>Journal /Book</u>	<u>Authors</u>
77. 1990	Mutation breeding in pigeon pea	<i>Genetic Improvement of Pulse Crops</i> . Vol. 1:179-188, Edited by Jafar Nizam.	V.P. Singh, and S.N. Chaturvedi.
78. 1995	The influence of modifying factors on the induction of mutations with physical and chemical muagens,	<i>J. Indian Bot. Soc.</i> (Plantinum Jubilee Volume) 503-512.	V.P. Singh, Alok Srivastava, and S.N. Chaturvedi,
79. 1997	The genetic improvement of pulse crops through mutation breeding.	<i>plant Breeding Advances and in Vitro Culture</i> , CBS Publication, 27-42.	V.P. Singh, A. Srivastava, and S.N. Chaturvedi.

80. 2001	Induced polygenic variability in pulse crops.	In Some aspects of research in Botany Respa Pub. :226-236.	V.P. Singh, and Alok Srivastava
81. 2002	Improvement of Poplar through biotechnological approaches.	<i>J. Indian. Bot. Soc.</i> 81:1-10.	Prakash, Anant, Alok Srivastava, and V.P. Singh.
82. 2005	Biochemical & Genetic effects of heavy metals in plants.	Plant Diversity, microbial Interaction and Environmental Biology Edited : Drs. S.N. Chatruvedi &K.P. Singh : 215-225.	Alok Srivastava, Udai Pal Singh, and V.P. Singh.
83. 2005	Demand Characteristics and Utilities of Poplar	.Aqrobios Newsletter IV (2) : 39-40.	Anant Prakash and V.P. Singh.
84. 2008	GIS and Remote Sensing in Agriculture.	Vegetos 21 (1) : 11-27	Preeti Singh, Satish Kr, Sameer Srivastava, Sanjay Garg, S.K. Bhatnagar, R.K. Singh and V.P. Singh.
85. 2010	Use of Plant Genetic Resources for sustainable food and nutritional security: Today's World need.	Stable food production & Sustainable Agriculture, Published by Studium Press (India) Pvt. Ltd. New Delhi, pp.352-372.	Kalpna Sengar, Christain follmer, Sanjay Kumar Garg, Ankush Innani, R.S. Sengar, H.B. Singh and V.P. Singh.
86. 2010	Application of Monooxygenases in Dehalogenation, Denitrification and hydroxylation of Aromatic compounds.	<i>J. Bioremed. Biodegrad.</i> 1(3): 110.	Pankaj Kumar Arora, Alok Srivastava, and V.P. Singh.
87. 2014	Bacterial degradation of nitrophenols and their derivatives.	<i>J. of Hazardous materials</i> 266(2014)42-59.	Arora PK, Srivastava Alok & Singh VP
88. 2018	Recent advances in degradation of chloronitrophenols.	Bioresource Technology BITE 19262 (In press)	P.K. Arora, Alok Srivastava, S.K. Garg & Vijai Pal Singh.
<u>Articles Published in Proceedings of the Conferences:</u>			
<u>Year</u>	<u>Title</u>	<u>Proceeding</u>	<u>Authors</u>
89. 2003	Productivity of heavy metal induced mutants in Moong bean.	Bioscience: Advances, Impact & Relevance. 77-81.	Asha Singh, Alok Srivastava, and V.P. Singh.
90. 2003	Effect of Nitrate and putrecine on Nitrate Reductase Activity and Glutamine Synthetase activity in popular leaves.	Bioscience: Advances, Impact & Relevance. 43-47.	Anant Prakash, and V.P. Singh.
91. 2008	Phytoremediation of lead induced toxicity in <i>Vigna mungo</i> (L) Hepper by Vetiver Grass.	The Vetiver System for Environmental Protection and Natural Disaster management. Pp126-135. Cochin, India.	D. K. Gupta, Alok Srivastava, and V.P. Singh.

1. ABSTRACTS PUBLISHED IN SEMINAR/CONFERENCES:

- | <u>No.</u> | <u>Name of Conference-</u> |
|------------|--|
| 92. | Botanical conference at Meerut University, Meerut (1978). "Increased mutagenic effects of EMS in moong bean by DMSO" J.I.B.S. :70-71. |
| 93. | Annual Conference (30-31st March, 1979) of Society for advances of Botany at Punjab Agricultural University, Ludhiana "Comparative mutagenic effects of EMS, NMU and Gamma-rays in moong bean" Acta Botanica India 129. |
| 94. | XV International Congress of Genetics, New Delhi (Dec. 12-21, 1983) "Reconstruction of Plant types through induced mutagenesis in pulse crops. Moong bean and guar part 1:333. |
| 95. | VI all India Congress of Cytology and Genetics (Oct. 12-17, 1987) University of Jammu, Jammu & Kashmir, Induced high yielding mutants in pulse crops. Moong bean and cluster bean" J Cytol. Genetic. 279. |
| 96. | XI Botanical Conference (Jan, 2-4, 1989) Bhartidarshan University Tiruchirapalli (Tamilnadu) "A Comparison in the mutagenic effectiveness and efficiency of Gamm-rays, EMS and NMU in sugarcane". J.I.B.S. XIII, 40. |
| 97. | XII Botanical Conference (Dec.26-28, 1990), Banaras Hindu University, Varanasi. "the influence of alteration in moisture contens in pre gamma-irradiated seeds on frequency and spectrum of mutations in pigeon pea". J.I.B.S. |
| 98. | XIV Botanical Conference (Dec. 28-30, 1991), Lucknow University, Lucknow. "The Productivity of synchronous early maturity mutants in pigeon pea". J.I.B.S. XIII 27. |
| 99. | XV Botanical conference (Dec. 28-30, 1992) Marathwada University, Aurangabad, "Gamma-rays & EMS induced leaf mutants in moong bean". J.I.B.S. |
| 100. | XV International Botanical Congress (28th Aug.-3rd Sept., 1993). The performance of high yielding pigeon pea mutants. Congress Centre of Pacifico, Yokohme, Japan. (Abstract Published, Congerence not attended). |
| 101. | XIX Botanical Conference (Dec. 28th-30th, 1996) held at Gurkul Kangri University, Haridwar (U.P.) Chaired session on Cytogenetics & Plant Breeding. |
| 102. | Symposium on Advances in Plant Science Technology 30th Nov. 1997. Dr. B.R. Ambedkar University, Agra (UP). |
| 103. | XX Botanical conference (Oct. 29-31st, 1997) held at Deptt. of Applied Botany University of Mysore, Mysore (Karnataka). |
| 104. | XX Botanical conference (Oct 23-26th, 1998) held at Department of Botany, Vikram University, Ujjain. |
| 105. | XXII Botanical conference (Oct.23-25, 1999) held at Mithibai college (Bombay University) Mumbai: |
| 106. | National Symposium on Plant Science unfinished task (2001) held at Dr. B.R. Ambedkar University, Agra 13 May, 2001. |
| 107. | XXIII Botanical Conference (Nov. 19-21, 2001) held at Osmania University, Hyderabad, Chaired session on cytology, Genetics & Plant Breeding. |
| 108. | National Symposium on "Sugarcane and sugar productivity-present scenario and future strategies with conventional & Biotechnological approaches, held at U.P. Council of sugarcane research, Shahjahanpur (21-22 March, 2002). Plant let regeneration from leaf explants of sugarcane var. CoS 96258 & CoS 91269. Abst. No.P-9. |
| 109. | National Symposium on "Biosciences Advances, Impact and Relevance" held at MJP Rohilkhand University Bareilly (27th -29th Oct, 2002). |
| 110. | National Symposium on "In Retrospect and Prospect with special reference to opening of Indian Market to worked : held at Dr. B.R. Ambedkar university, Agra (Dec. 19-20,2004). |
| 111. | Twenty Eighth Botanical conference (24-26th Oct., 2005) held at Botanical Survey of India, Dehradun. Chaired Session on Cytogenetics & Plant Breeding. |
| 112. | XXIX Botanical Conference (9-11Oct.2006) held at Department of Botany, M.L.S. University, Udaipur chaired session on cytogenetics & Plant Breeding. |
| 113. | Delivered Special Lecture on Remediation of lead toxicity through chemical mutagens and Vetiver grass in Black gram in National Seminar held from 3-4th Feb. 2007 at Doon Paramedical College & |

	Hospital, Dehradun.
114.	XXX Botanical Conference (28-30th Nov. 2007) held at Jiwaji University.
115.	Presided over the National Seminar on Global Warming organized on 17 th Dec. 2007 at Bareilly College, Bareilly.
116.	Delivered Special Lecture on “Phytoremediation of lead induced toxicity in <i>Vigna mungo</i> (L) Hepper by Vetiver grass in National Workshop on the Vetiver System for Environmental Protection and Natural Disaster Management organized the International Vetiver Network from 21-23rd Feb. 2008 at Cochin, India.
117.	XXXI National Botanical Conference held at Allahabad University Allahabad (Dec. 17-19, 2008).
118.	XXXII All India Botanical Conference and International Symposium on Diversity of Plants and Microbes : Present Scenario held at Kuvempu University, Shankaraghatta Karnataka on 28-30 th Dec. 2009.
119.	Delivered special lecture on EDTA mediated Phytoremediation of lead by Vetiver grass and Merigold in National Conference on “Plant Science in Human Welfare” held at Botany, Kakatiya University, Warangal on 3-4 th March, 2010.
120.	Delivered Invited Lecture on “Phytoremediation: A technique for cleaning up Metals contaminated Land.” In National Seminar on Management of Environmental Pollution for Sustainable Energy Production held at Department of Plant Science, MJP Rohilkhand University on 10-11 th April, 2010.
121.	XXXIII All India Botanical Conference and International Symposium on New Horizons of Botany: held at Dept. of Botany, Shivaji University, Kolapur on 10-14 th Nov.. 2010.
122.	XXXIV All India Botanical Conference held at Department of Botany, Lucknow University, Lucknow on 10-12 th Oct. 2011.
123.	XXXV All India Botanical Conference held at Department of Botany, MS University, Baroda, Vadodara (Gujrat) on 08-10 th Dec. 2012.
124.	Invited to deliver lecture in 1 st U.P. Science Congress scheduled to be held at DDU Gorakhpur University, Gorakhpur 2-4 th March 2013.
125.	XXXVI All India Botanical Conference held at Department of Botany, D.D.U. Gorakhpur University, Gorakhpur (U.P.) on 18 th -20 th Oct., 2013.
126.	Delivered Lecture in National Seminar on “Environment Pollutions, Consequences and Management” as Guest of Honour at Krishna College of Science and Technology, Bijnor on 30 th Nov., 2013.
127.	Invited to deliver lecture in Brainstorming Conference on STI Policy implementation sponsored by DST, New Delhi held at Bareilly College, Bareilly on 8 th Jan., 2014.
128.	XXXVII All India Botanical Conference held at Department of Botany, V.G. Vaze College, Mumbai (Maharashtra) on 6 th – 8 th Nov., 2014.
129.	XXXVIII All India Botanical Conference held at Department of Botany, University of Rajasthan, Jaipur on 26 th -28 th Oct., 2015.
130.	XXXIX All India Botanical Conference held at Department of Botany, Ranchi University, Ranchi (Jharkhand) on 21 st – 23 rd Oct., 2016.
131.	XXXX All India Botanical Conference held at Department of Botany, Punjabi University, Patiala (Punjab) on 15 th – 17 th Sep., 2017.

2. CHAIRED SESSION IN CONFERENCES:

No.	Name of Conference-
1.	XX Botanical conference (Oct. 29-31st, 1997) held at Deptt. of Applied Botany University of Mysore, Mysore (Karnataka). Chaired session on Cytology, Genetics & Plant Breeding.
2.	XX Botanical conference (Oct 23-26th, 1998) held at Department of Botany, Vikram University, Ujjain. Chaired session on cytology, Genetics & Plant Breeding.
3.	XXII Botanical conference (Oct.23-25, 1999) held at Mithibai college (Bombay University) Mumbai: Chaired Session on Cytology, Genetics and Plant Breeding.
4.	Chaired Paper Reading Session and acted as judge for selecting Best Paper presented in XXXI National Botanical Conference held at Allahabad University Allahabad (Dec. 17-19, 2008).

5. Chaired Paper Reading Session in National Conference on "Impact of Climate Change on Plant Reproductive Biology" held at Dr. M.P. Memorial group of Colleges, Sikandra, Agra (7& 8th Nov. 2009).
6. Chaired Paper Reading Session in XXXII All India Botanical Conference and International Symposium on Diversity of Plants and Microbes : Present Scenario held at Kuvempu University, Shankaraghatta Karnataka on 28-30th Dec. 2009.
7. Chaired Paper Reading Session in XXXIII All India Botanical Conference and International Symposium on New Horizons of Botany: held at Dept. of Botany, Shivaji University, Kolapur on 10-14th Nov., 2010.
8. Chaired Medal Awardee Lecture in XXXIV All India Botanical Conference held at Department of Botany, Lucknow University, Lucknow on 10-12th Oct. 2011.
9. Chaired Medal Awardee Lecture in XXXV All India Botanical Conference held at Department of Botany, MS University, Baroda, Vadodara (Gujrat) on 08-10th Dec. 2012.
10. Chaired Medal Awardee Lecture in XXXVI All India Botanical Conference held at Department of Botany, D.D.U. Gorakhpur University, Gorakhpur (U.P.) on 18th -20th Oct., 2013.
11. Chaired inaugural session of National Seminar on "Organic Farming for Sustainable Agriculture" organized by Department of Animal Science, MJP Rohilkhand University, Bareilly, 10th – 12th March, 2014.
12. Chaired Medal Awardee Lecture in XXXVII All India Botanical Conference held at Department of Botany, V.G. Vaze College, Mumbai (Maharashtra) on 6th – 8th Nov., 2014.
13. Chaired Medal Awardee Lecture in XXXVIII All India Botanical Conference held at Department of Botany, University of Rajasthan, Jaipur on 26th -28th Oct., 2015.
14. Chaired Medal Awardee Lecture in XXXIX All India Botanical Conference held at Department of Plant Science, Ranchi University, Ranchi (Jharkhand) on 21st – 23rd Oct., 2016.
15. Chaired Medal Awardee Lecture in XXXX All India Botanical Conference held at Department of Botany, Punjabi University, Patiala (Punjab) on 15th – 17th Sep., 2017.
16. Chaired Inaugural Session of 3rd National Conference on "Environmental Protection through Innovative Approaches for sustainable Development" held on 19th to 20th January, 2018 at Khandelwal College of Management Science & Technology, Bareilly.

3. NUMBER OF STUDENTS AWARDED Ph.D.

No.	Name of Student	Thesis Title	Year
1.	Suman Gupta	Studies on the induction of mutations in Guar (<i>Cyamopsis tetragonoloba</i> (L) Taub).	1984
2.	B.D.Singh	Studies on the induction of mutations in Sugarcane.	1986
3.	Swarnlata Kaul	Height gene system and its influence on heterosis and recombination variability in sorghum (<i>S .bicolor</i> Mouch).	1992
4.	Alok Srivastava	Improvement in pigeon pea through induced mutagenesis.	1992
5.	Alka Dubey	Studies on the induction of mutations in black gram.	1992
6.	Rashmi Sharma	Studies on the influence of modifying factors on the induction of mutations in mung bean.	1994
7.	Pitamber Singh	Mutation breeding in <i>Cajanus cajan</i> (L) Millsp. With special Reference to induction of effluent resistant plant type.	1998
8.	S.K. Sharma	Phytotoxic effects of industrial effluents in black gram with Special Reference to the induction of effluent resistant plant type.	1998
9.	K.P.Singh	Induction of industrial effluents resistance in Urd bean Through induced mutagenesis.	1998
10.	Pratap Singh	Studies on evaluation, Characterization and classification in Sugarcane germplasm.	1998
11.	Asha Singh	Studies on the phytotoxic and mutagenic effects of heavy	2001

12.	Anant Prakash	Metals and city waste water in moong bean. Effect of cytokinins and polyamines on Nitrogen assimilation and growth in Poplar (<i>Populus deltoids</i>)	2002
13.	Anil Kr. Singh	Physiological and Biochemical Basis for <i>in vitro</i> morphogenesis in sugarcane hybrids.	2005
14.	Vijay Kr. Sinhal	Phytotoxic, Cytogenetic & Biochemical effects of Zn ⁺⁺ & Pb ⁺⁺ in <i>Vigna mungo</i> (L) Hepper .	2005
15.	Richa Agrawal	Phytotoxic, Cytogenetic and Biochemical effects of Heavy metals (Cu, & Cd ⁺⁺) in <i>Vigna mungo</i> (L) Hepper	2005
16.	Rama Nand	<i>In Vitro</i> morphogenetic studies on crop improvement and multiplication in Sugarcane (<i>Saccharum</i> spp. Complex) .	2007
17.	Deepak Kr. Gupta	Studies on the effects of lead on <i>Vigna mungo</i> (L) Hepper with its Phytoremediation through <i>Vetiveria zizanioides</i> (L) Nash.	2007
18.	Satish Kr. Gupta	Studies on the effects of Zinc on <i>Cajanus cajan</i> (L) Millsp with its Phytoremediation through <i>Helianthus annuus</i> (L)	2007
19.	Neetu Gupta	Studies on the effects of mercury on <i>Cajanus cajan</i> (L) Millsp. with its Phytoremediation through <i>Brassica juncea</i> (L).	2008
20.	Manoj Kumari	Combined effect of Cu ²⁺ , Zn ²⁺ and Cd ²⁺ induced toxicity in <i>Vigna radiata</i> (L) wikzek.	2008
21.	Archana	Studies on Flowering Behaviour and Genetic Variability in Floral organs of <i>Saccharum</i> spp. Complex and <i>Saccharum</i> Spontaneous clones	2008
22.	Vimal Kumar Dubey	Expression of Cucumber Mosaic Virus (CMV) Coat Protein gene in Gladiolus/Tobacco: Regeneration of CMV-CP mediated resistant transgenic Gladiolus Tobacco plants.	2009
23.	Yukti Goel	Molecular studies on <i>in vitro</i> morphogenesis and Somaclonal Variations in Sugarcane.	2010
24.	Shabana	Studies on the effects of some chelating agents (NTA and EDTA) on the phytoremediation potential of <i>Vetiveria zizanioides</i> (L.) Nash.	2012
25.	Amit Shukla	The study of Phytoremediation Potentiality of <i>Zea mays</i> (L) in Contaminated Soil.	2012
26.	Jitendra Kumar	Studies on the effects of EDTA & Citric Acid on Phytoextraction ability of heavy metals in <i>Brassica juncea</i> (L).	2013
27.	Shikha Saxena	Studies on the Potentiality of Marigold as heavy metal (Arsenic & Lead) Phytoremediator Plant.	2013