



म.ज.प. रोहिलखण्ड विश्वविद्यालय, बरेली

<b>Name</b>	<b>Dr. V.P. Singh</b>		
<b>Designation</b>	<b>Professor &amp; Pro-Vice Chancellor</b>		
<b>Department</b>	<b>Department of Plant Science</b>		
<b>Address (Campus)</b>	<b>M.J.P. Rohilkhand University, Bareilly - 243006 (U.P.).</b>		
<b>(Residence)</b>	<b>&amp; Secretary, Indian Botanical Society.</b>		
<b>Date of Birth</b>	<b>25.11.1954</b>		
<b>Phone No (Office)</b>	<b>0581-2521416 Res. 0581-2520186</b>		
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<b>Education</b>			
<b>Subject</b>	<b>Institution</b>	<b>Year</b>	<b>Details</b>
M.Sc.	Agra University	1973	Subjects: Botany
Ph.D	Agra University	1978	Thesis topic: Improvement of Mung Bean..... .....Mutagenesis.
<b>Career Profile</b>			
<b>Organisation / Institution</b>	<b>Designation</b>	<b>Duration</b>	<b>Role</b>
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-Continuing	Teaching & Research
<b>Research Interests / Specialization</b>			
Cytogenetics, Plant Breeding, Environment Management.			
<b>Teaching Experience ( Subjects/Courses Taught)</b>			
11 Yrs. & 6 Months (U.G. & P.G.) Cytogenetics, Taxonomy, Plant Breeding (1973-1985). 31 Yrs & 6 Months (P.G.) Genetics, Plant Breeding & Biostatistics (1985-continuing).			
<b>Honors &amp; Awards</b>			
<b>Year</b>	<b>Detail</b>	<b>Awarded by</b>	
<b>1984</b>	Fellow of Indian Botanical Society (FBS)	Indian Botanical Society	
<b>1986</b>	Fellow of Mendelian Society of India (FMSI)	Mendelian Society of India	
<b>1994</b>	Visited IPK, Gatersleben Martin Luther university, Hale & Kaiserslautern University, Germany	Under INSA/DFG Scientist Exchange Program.	
<b>2003</b>	Elected Vice President	Indian Botanical Society.	
<b>2006</b>	Best Teacher Award	Agrsen Society Bly.	



<b>2007</b>	Best Teacher Award	Society for Plant Research.
<b>2008</b>	Best Teacher Award	Bareilly Scholar Education Society.
<b>2010</b>	Elected Secretary for three years (2011-2013) & Re-elected from 2013 – March, 2017.	All India Botanical Society.
<b>2013</b>	Fellow of the Society of Plant Reproductive Biologists (FSPRB).	Society of Plant reproductive Biologists.
<b>2013</b>	Distinguished Service Award for contribution in Environmental Sciences	Bareilly College, Bareilly

### **Publications/Research projects/Public Service / University Service / Consulting Activity**

#### **(A) Publications**

**(A) Research Papers Published in National/ International Journals: 86**

<b>(B) Conference attended</b>	<b>: 40</b>
And Chaired Paper reading Sessions	<b>: 25</b>
<b>(C) Edited Book on Biosciences</b>	<b>: 01</b>
Advances Impact & Relevance (2003)	
<b>(D) Ph.D. Awarded</b>	<b>: 27</b>

#### **(B) Project (Major Grants / Collaborations)**

**Completed 05 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.**

<b>Year</b>	<b>Title</b>	<b>Source</b>	<b>Completed</b>
1982-84	Reconstruction of Plant types through Induced Mutagenesis	UP,CST, Lucknow	Completed
1986-90	Improvement of Some Pulse Crops Trough Induced Mutagenesis.	UGC, New Delhi	Completed
1996-99	Studies on the Effect of Industrial Waste Water Irrigation on Cytogenetical and Agronomical characteristics in some Pulse Crops.	UGC, New Delhi	Completed
1999-2002	Regulation of growth & Nitrogen Assimilation in Popular by growth regulators.	UP,CST, Lucknow	Completed
2005-2007	Studies on the effects of Heavy metals (Pb <sup>++</sup> , Zn <sup>++</sup> , Hg <sup>++</sup> ) on Black gram & Pigeon Pea with its Phytoremediation through <i>Vetiveria zizanioides</i> (L)	UGC, New Delhi	Completed
2008-2011	Nash and Brassica juncea (L) “Decontamination of Heavy metals from Soil and Water trough Phytoremediator Plants (The Vetiver System for Environmental Protection and Natural Disaster Management)”	University Sponsored Project	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

**(C) Membership :****Life Member of-**

1. Indian Botanical Society,
2. Mendelian Society of India.
3. Society of Plant Reproductive Biologist.

**(D) UNIVERSITY SERVICE:-****Worked as**

- 1- Head, Dept. Of Plant Science (Feb. 1985 to April 1987, April 2001 to July 2008, and July 2011-2014).
- 2- Dean of Faculty, July 1998 to April 2001, May 2010- Continuing.
- 3- Dean Student Welfare (July 1989-Aug. 1993)
- 4- Secretary, University Sports Council (Aug 1987 to Sept 1989)
- 5- Coordinator, Dental/Medical Colleges (1999-2004), (2010- Continuing).
- 6- Coordinator, Central Evaluation, (1999, 2000, 2007, 2008, 2010).
7. Chief Proctor (Jan. 1994-Feb. 1998 and Dec.1999-2014)
8. Chief Coordinator, Entrance Test Cell (2001-2014)
9. Coordinator, U.G.C. Cell (July 2008-2014).
10. Coordinator, NAAC Steering Committee and IQAC (Dec.2011-2014).
11. Dean, Faculty of Applied Sciences (May 2010- Continuing).

**Incharge of following Sections as Pro-Vice Chancellor:**

1. Entrance Test (organizing Entrance Test at University level): M.Sc., LL.B/LL.M, M.Ed., Ph.D., B.Ed., CPMT, UGC-NET etc. and Counselling for admission.
2. Medical/Dental/Nursing Colleges.
3. IQAC Cell.
4. Law and Order at Campus.
5. U.G.C. Grants.
6. Research Section

**(F) Consulting Activity:-**

- 1- Referee in National / International Journals.
- 2- Nominated member, Education advising committee Govt. Of U.P. 1997.
- 3- Expert, U.G.C. Visiting Team for allocation of XI Five Year Plan Grant 2008.
- 4- Member, Coordination Committee, U.P. SLET.- 2004 Organized by C.S.M. University, Kanpur (U.P.).
- 5- Member, Core-Committee, U.P. C.P.M.T. – 2004 organized by C.C.S. University, Meerut (U.P.).
- 6- 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 and 2014 Bundelkhand University, Jhansi.
- 7- Nominated, Member Academic Council in AMT University, Gwalior by M.P. Private Regulatory Commission on 29.11.2013.
- 8- Appointed Expert in UGC Committee for evaluation of proposals under the scheme of Research Project Grant in Session 2013-14 on 01.10.2013.

**(G) Other Details**

- 1- Elected as Counsellor (1996 – 1999 and 2008 – 2011) and member editorial Board (1999 – 2002) in Indian Botanical Society.
- 2- Organized UGC Refresher Course 7<sup>th</sup> Sept. – 27<sup>th</sup> Sept., 2001; from 3rd Oct.- 29th Oct., 2002. 28<sup>th</sup> Oct. – 20<sup>th</sup> 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- Elected Councilor 2008 in Society of Plant Reproductive Biologist.
- 6- Convener, BOS, Plant Science, RU. Bareilly.
- 9- Member, RDC, Plant Science and Academic Counsel, R.U. Bareilly.
- 10- Member, BOS & RDC other State/ Deemed Universities.
- 11- 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.
- 12- Organized visit of U.G.C. Team (17-19 Sept. 2008 at MJPRU, Bareilly. As Coordinator for allocation of XI five year Plant Grant.
- 13- Organized workshop on “Role of IQAC in Assesment & Acereditation”on 22-23<sup>rd</sup> Dec.2012 & 27-29<sup>th</sup> Jan 2012” and 31<sup>st</sup> Jan. - 2<sup>nd</sup> Feb., 2014 and 22<sup>nd</sup> – 24<sup>th</sup> March, 2014 as coordinator, NAAC Streering Committee.
- 14- Organized Seminar on “Alcohol/Smoking/Drugs: Their deleterious effects on Human Body” on 23<sup>rd</sup> Jan., 2010, 5<sup>th</sup> March, 2011, 24<sup>th</sup> Jan., 2012 and 16<sup>th</sup> Jan., 2014 as Chief Proctor & Organizing Secretary.
- 15- 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.) as Secretary, Indian Botanical Society.
- 16- 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.
- 17- 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.

Date:.....

Prof. (V.P. Singh)

## 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 alky lating 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 in <i>Vigna radiata</i> (L) Wilczek	<i>Genetica Agraria</i> 34:331-343.	V.P. singh and S.N. Chaturvedi
10. 1980	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 &amp; 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 &amp; 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 seeds on the induction of mutations with EMS and Gamma-rays in moong bean	<i>J. Indian Bot. Soc.</i> 71 (I-IV): 125-128	R. Sharma, and V.P. 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) Millips	<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 Gibberllic 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 (Vigna Mungo (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 &amp; 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 <sup>2+</sup> & Pb <sup>2+</sup> 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 <sup>2+</sup> on growth & NR activity in <i>Vigna mungo</i> (L.) Hepper and its alleviation by sucrose treatment	<i>J. Indian Bot. Soc.</i> <b>86</b> (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> <b>29</b> (6): 903-906.	D.K Gupta, Alok Srivastava, and V.P. Singh.
55.2008	Evaluation of the effects of Zn <sup>2+</sup> on the growth of <i>Cajanus cajan</i> and its phytoremediation through <i>Helianthus annuus</i> .	<i>Ecology Eenvironment and Conservation.</i> <b>14</b> (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> <b>3</b> : 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.
58.2009	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 <sup>+2</sup> , Cu <sup>+2</sup> and Zn <sup>+2</sup> 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 Gram-positive bacterium, <i>Exiguobacterium</i> sp.PMA	Microbial Cell Factories, 11:150, 2-10.	Pankaj Kumar Arora, R. 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 <i>Burkholderia</i> 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-aminophenol in <i>Arthrobacter</i> 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 <i>Pseudomonas</i> sp.JHN.	Scientific Reports 4:4475 DOI: 10.1038/srep04475 (IF 2.94).	Arora PK, Alok Srivastava & V.P. Singh
72. 2014	Metabolic pathway for degradation of 2-chloro-4-aminophenol by <i>Arthrobacter</i> sp.SP	Microbial Cell Factories DOI 10.1186/s12934-014-0164-6 (IF 4.25)	Pankaj Kumar Arora, Tapan Kr Mohanta, Alok Srivastava, Hangong Bae, Vijay Pal Singh

## Articles

### **Review Articles Published in Books/Journals**

<u>Year of Publication</u>	<u>Title</u>	<u>Journal /Book</u>	<u>Authors</u>
1. 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.
2. 1995	The influence of modifying factors on the induction of mutations with physical and chemical mutagens,	<i>J. Indian Bot. Soc.</i> (Platinum Jubilee Volume) 503-512.	V.P. Singh, Alok Srivastava, and S.N. Chaturvedi,
3. 1997	The genetic improvement of pulse crops through mutation breeding.	<i>plant Breeding Advances and in Vitro Culture, CBS Publication, 27-42.</i>	V.P. Singh, A. Srivastava, and S.N. Chaturvedi.
4. 2001	Induced polygenic variability in pulse crops.	In Some aspects of research in Botany Respa Pub. :226-236.	V.P. Singh, and Alok Srivastava
5. 2002	Improvement of Poplar through biotechnological approaches.	<i>J. Indian. Bot. Soc.</i> 81:1-10.	Prakash, Anant, Alok Srivastava, and V.P. Singh.
6. 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.
7. 2005	Demand Characteristics and Utilities of Poplar	.Aqrobios	Anant Prakash

8. 2008	GIS and Remote Sensing in Agriculture.	Newsletter IV (2) : 39-40. Vegetos 21 (1) : 11-27	and V.P. Singh. Preeti Singh, Satish Kr, Sameer Srivastava, Sanjay Garg, S.K. Bhatnagar, R.K. Singh and V.P. Singh.
9. 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.
10. 2010	Application of Monooxygenases in Dehalogenation, Denitrification and hydroxylation of Aromatic compounds.	J. Bioremed. Biodegrad. 1(3): 110.	Pankaj Kumar Arora, Alok Srivastava, and V.P. Singh.
11. 2014	Bacterial degradation of nitrophenols and their derivatives.	J. of Hazardous materials 266(2014)42-59	Arora PK, Srivastava Alok & Singh VP

### **Articles Published in Proceedings of the Conferences:**

<b><u>Year</u></b>	<b><u>Title</u></b>	<b><u>Proceeding</u></b>	<b><u>Authors</u></b>
1. 2003	Productivity of heavy metal induced mutants in Moong bean.	Bioscience: Advances, Impact & Relevance. 77- 81.	Asha Singh, Alok Srivastava, and V.P. Singh.
2. 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.
3. 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.

### **I. Number of Students Awarded Ph.D.**

<b><u>No.</u></b>	<b><u>Name of Student</u></b>	<b><u>Thesis Title</u></b>	<b><u>Year</u></b>
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>	1992

		Mouch).	
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 Metals and city waste water in moong bean.	2001
12.	Anant Prakash	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 in vitro morphogenesis in sugarcane hybrids.	2005
14.	Vijay Kr. Sinhal	Phytotoxic, Cytogenetic & Biochemical effects of Zn <sup>++</sup> & Pb <sup>++</sup> in <i>Vigna mungo</i> (L) Hepper .	2005
15.	Richa Agrawal	Phytotoxic, Cytogenetic and Biochemical effects of Heavy metals (Cu, & Cd <sup>++</sup> ) 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 <sup>2+</sup> , Zn <sup>2+</sup> and Cd <sup>2+</sup> induced toxicity in <i>Vigna radiata</i> (L) wickzek.	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	2013

27. Shikha Saxena	Phytoextraction ability of heavy metals in <i>Brassica juncea</i> (L). Studies on the Potentiality of Marigold as heavy metal (Arsenic & Lead) Phytoremediator Plant. 2013
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## 2. SEMINAR/CONFERENCE ATTENDED

<u>No.</u>	<u>Name of Conference-</u>
1.	Botanical conference at Meerut University, Meerut (1978). "Increased mutagenic effects of EMS in moong bean by DMSO" J.I.B.S. :70-71.
2.	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.
3.	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.
4.	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.
5.	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.
6.	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.
7.	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.
8.	XV Botanical conference (Dec. 28-30, 1992) Marathwada University, Aurangabad, "Gamma-rays & EMS induced leaf mutants in moong bean". J.I.B.S.
9.	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).
10.	XIX Botanical Conference (Dec. 28th-30th, 1996) held at Gurkul Kangri University, Haridwar (U.P.) Chaired session on Cytogenetics & Plant Breeding.
11.	Symposium on Advances in Plant Science Technology 30th Nov. 1997. Dr. B.R. Ambedkar University, Agra (UP).
12.	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.
13.	XX Botanical conference (Oct 23-26th, 1998) held at Department of Botany, Vikram University, Ujjain. Chaired session on cytology, Genetics & Plant Breeding.
14.	XXII Botanical conference (Oct.23-25, 1999) held at Mithibai college (Bombay University) Mumbai: Chaired Session on cytology, Genetics and Plant Breeding.
15.	National Symposium on Plant Science unfinished task (2001) held at Dr. B.R. Ambedkar University, Agra 13 May, 2001.
16.	XXIII Botanical Conference (Nov. 19-21, 2001) held at Osmania University, Hyderabad, Chaired session on cytology, Genetics & Plant Breeding.
17.	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.
18.	National Symposium on "Biosciences Advances, Impact and Relevance" held at MJP Rohilkhand University Bareilly (27th -29th Oct, 2002).
19.	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).

20. Twenty Eighth Botanical conference (24-26th Oct., 2005) held at Botanical Survey of India, Dehradun. Chaired Session on Cytogenetics & Plant Breeding.
21. XXIX Botanical Conference (9-11Oct.2006) held at Department of Botany, M.L.S. University, Udaipur chaired session on cytogenetics & Plant Breeding.
22. Delivered Special Lecture on Remediation of lead toxicity through chemical mutagenesis and Vetiver grass in Black gram in National Seminar held from 3-4th Feb. 2007 at Doon Paramedical College & Hospital, Dehradun.
23. XXX Botanical Conference (28-30th Nov. 2007) held at Jiwaji University, Gwalior Chaired session on cytogenetics & Plant Breeding.
24. Presided over the National Seminar on Global Warming organized on 17<sup>th</sup> Dec. 2007 at Bareilly College, Bareilly.
25. Presided over the Valedictory Function of National Symposium on Earthworm Ecology and Environment held on 28<sup>th</sup> April, 2007 at M.J.P, Rohilkhand University, Bareilly.
26. Delivered Special Lecture on “Phytoremediation of lead induced toxicity in *Vigna mungo* (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.
27. 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).
28. 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& 8<sup>th</sup> Nov. 2009).
29. 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 28-30<sup>th</sup> Dec. 2009.
30. 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<sup>th</sup> March, 2010.
31. 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<sup>th</sup> April, 2010.
32. 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 10-14<sup>th</sup> Nov.. 2010.
33. Chaired Medal Awardee Lecture in XXXIV All India Botanical Conference held at Department of Botany, Lucknow University, Lucknow on 10-12<sup>th</sup> Oct. 2011.
34. Invited to act as Expert in Selection of Best paper presented in Oral/Poster Session in “6<sup>th</sup> Uttarakhand State Science & Technology Congress-2011” held at G.B. Pant Institute of Himalayan Environment & Development Kosi-Katarmal, Almora (Uttarakhand) on 14-16<sup>th</sup> Nov.2011.
35. Chaired Medal Awardee Lecture in XXXV All India Botanical Conference held at Department of Botany, MS University, Baroda, Vadodara (Gujrat) on 08-10<sup>th</sup>Dec. 2012.
36. Invited to deliver lecture in 1<sup>st</sup> U.P. Science Congress scheduled to be held at DDU Gorakhpur University, Gorakhpur 2-4<sup>th</sup> March 2013.
37. Chaired Medal Awardee Lecture in XXXVI All India Botanical Conference held at Department of Botany, D.D.U. Gorakhpur University, Gorakhpur (U.P.) on 18<sup>th</sup> -20<sup>th</sup> Oct., 2013.
38. 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<sup>th</sup> Nov., 2013.
39. Invited to deliver lecture in Brainstorming Conference on STI Policy implementation sponsored by DST, New Delhi held at Bareilly College, Bareilly on 8<sup>th</sup> Jan., 2014.
40. Chaired inaugural session of National Seminar on “Organic Farming for Sustainable Agriculture” organized by Department of Animal Science, MJP Rohilkhand University, Bareilly, 10<sup>th</sup> – 12<sup>th</sup> March, 2014.