

BIO-DATA

1. **Name** : Dr. V.K. SINGHAL
2. **Designation** : PROFESSOR (Retired)
3. **Department** : BOTANY
4. **Date of Birth** : 24.3.1953
5. **Address for Correspondence** : Department of Botany,
Punjabi University,
Patiala - 147 002
Phones : 0175-2206611
Mobile : 91-98726-46611
Fax : 91-175-513-6265.
E-mail : yksinghal53@gmail.com



6. **Areas of Specialisation** : I. Plant Systematics II. Cytogenetics III. Forestry

7. Academic Qualifications:

Sr. no.	Degree Held	Year	Board/Univ./ Inst.	% of marks	Div./ Rank	Subjects Taken
1	Matric	1969	Pb. Univ. Chd.	59.1	II	Eng., Hindi, Pbi., SST., Maths, Science
2	B.Sc. (Med.)	1973	Pb. Univ. Chd.	64.8	I	Botany, Zoology, Chemistry, G.Ed. (Opt.)
3	M.Sc. (Botany)	1976	Pbi. Univ. Patiala.	66.1	I	Botany
4	Ph.D.	1983	Pbi. Univ. Patiala.			Cytogenetics of Forest Trees

8. Membership of Professional Bodies/Organisations

- State Expert Appraisal Committee on Environment (Punjab), GOI, New Delhi
- Councillor, North Zone Jour. *Tree Sci.*
- Life Member, I.S.T.S., I.S.C.G., Punjab Academy Sciences.
- Industry expert, Post graduate and under graduate Board of studies, Mata Gujri College, (Autonomous College), Sri Fatehgarh Sahib.
- Member, ethical committee, Govt. Rajendra Medical College, Patiala.
- Member, Post Graduate Board of Studies in Botany, Mata Gujri College (Autonomous College), Sri Fatehgarh Sahib.
- Member, Editorial Advisory Board, *Cytologia* 2018.

Reviewer: a) *Journal of Medicinal Plant Research*

- International Journal of Genetics and Molecular Biology*
- African Journal of Plant Sciences*
- Caryologia*
- Turkish Journal of Biology*
- African Journal of Biotechnology*
- Research Journal of Punjab University, Chandigarh*
- Journal of Plant Studies*

- i) *Proceedings of National Academy of Sciences Biological Sciences*
- j) *National Academy Sciences Letters*
- k) *Indian Journal of Natural Products and Resources*
- l) *Protoplasma*
- m) *Plant Systematics and Evolution*
- n) *Current Organic Chemistry*
- o) *Anti-Ineffective Agents*
- p) *Comparative Cytogenetics*
- q) *International Journal of Plant and Soil Science*
- r) *PLOS one*

9. Scholarships and Awards:

- i) UGC Emeritus Fellow 2016-17
- ii) WADA memorial award, 2013 by International Society of Cytologists, Japan Mendel Society, Japan
- iii) UGC Project fellowship

10. Details of Experience:

S. No.	Name of the Inst./Employer	Position Held	Duration	Major Job Responsibilities and Nature of Experience
1.	Pbi. Univ. Patiala.	Curator, H. & M.	Two & Half yrs.	In-charge Herbarium & Museum, Teaching M.Sc. & M. Phil.
2.	Pbi. Univ. Patiala.	Lecturer	13 yrs	
3.	Pbi. Univ. Patiala.	Reader	8 yrs.	
4.	Pbi. Univ. Patiala.	Professor	23.12.05 to till date	Teaching M.Sc. & M. Phil., Ph.D. course work

11. Research Work Published/presented:

- a. Research Papers (Published)
 - i) National = 33
 - ii) International = 161
 - Total = 194
- b. Conference/Seminar Presentation: 92
- c. Books =03

Citation Indices	All	Since 2017
Citations	1938	729
h-index	24	13
i10- index	53	21
RG- Score	32.01	-

13. R & D Projects

	Title	Funding Agency
i.	Cytogenetics of Hardwoods from the forests of Chamba and Kullu Hills of H.P.	UGC
ii.	Status of moth component in the Biodiversity of Himalayan Ecosystem	MOEF, GOI, New Delhi
iii.	DRS-SAP Phase-I	UGC
iv.	DRS-SAP Phase-II	UGC
v.	DRS-ASSIST	UGC
vi.	DSA-I	UGC

14. Research Project - Mentor; Research project, entitled "**Cytogenetic investigation on emerging agroforestry species, *Melia composita* and *Melia azadiarach***" sanctioned to Dr. Rama Kant, Scientist-C, Genetics and Tree Propagation Division, Forest Research Institute, Dehradun - 248195 (Uttarakhand).

15. Invited Talks/Articles

- i) Refresher Course on 'Recent Advances in Botany', Pbi. Univ., Patiala.
- ii) Advances in Biology, Pbi. Univ., Patiala
- iii) Summer School in Agroforestry for integrated Land use, PAU, Ludhiana.
- iv) Two articles (see article no. 84 & 100 in the publication list)
- v) Orientation Course, ASC, Patiala, 2014
- vi) Summer School, ASC, Patiala, 2015
- vii) Workshop on Research Methodology, ASC, Patiala, 2015

16. Post doctoral student/s guided/under guidance

Dr. Puneet Kumar (UGC-Dr. D.S. Kothari Post Doctoral Fellow, 2011- 2014)

17. Ph.D. Students guided/under guidance (Details):

S. No.	Name of the Student	Title of Thesis	Year of Completion
1.	Rajni Sharma	Exploration and Evaluation of Germplasm in <i>Morus alba</i> L. (Moraceae). A tree of Social Forestry	1992
2.	Atula Salwan	Reproductive Biology and Germplasm evaluation in N.W. Indian <i>Aegle marmelos</i> (Linn.) Correa. (Rutaceae)	1998
3.	Maninder Kaur	Reproductive Biology and Germplasm evaluation of 'Neem' (<i>Azadirachta indica</i> A. Juss.) from Punjab and adjoining area.	1998
4.	Amandeep Kaur	Study of Reproductive Biology and diversity of <i>Acacia nilotica</i> (Linn.) Willd. Ex Del. From North-West India.	2002

5.	Harneet Kaur	Study of pollination mechanism in some leguminous trees of Punjab	2002
6.	Puneet Kumar	Exploration of cytomorphological diversity in the members of Polypetalae from Lahaul - Spiti and adjoining areas.	2011
7.	Jaspreet Kaur	Exploration of cytomorphological diversity in woody species from Shiwalik Hills of North West India.	2012
8.	Dalvir Kaur	Cytomorphological diversity in the dicotyledonous plants of Kinnaur District (H.P.).	2012
9.	Pawan Kumar	Cytomorphological diversity in the dicotyledonous plants from Pangi valley and adjoining areas of District Chamba (H.P.).	2015
10.	Maninder Kaur	Cytomorphological studies in the dicotyledonous plants from the Solang Valley and its adjoining areas of Kullu District (H.P.).	2017
11.	Rohit Kumar	Exploration of cytomorphological diversity in the members of Polypetalae from Uttarkashi district of Uttarakhand	2019
12.	Younas Rasheed	Cytomorphological diversity in plants of Gamopetalae and Monochlamydeae from Ladakh Division (Jammu & Kashmir)	2021
13.	Jaswant Singh	Exploration of cytomorphological diversity in Grasses from Uttarkashi district (Uttarakhand)	Registered (2015)
14.	Nissar Ahmad	Evaluation of cytomorphological diversity in plants of Polypetalae from Ladakh Division (Jammu & Kashmir)	2021

18. M.Phil. Students guided:

S. No.	Name of the Student	Title of Thesis	Year of Completion
1.	Tejinder Kaur	Biosystematics of <i>Morus alba</i> Linn. I. Morphology, reproductive biology and proteins.	1987
2.	Kirandeep Kaur	Biosystematics of <i>Murraya koenigii</i> (Linn.) Spreng. and <i>M. paniculata</i> (Linn.) Jack. Morphology, Reproductive biology and proteins.	1989
3.	Simran Sidhu	Biosystematics of <i>Punica granatum</i> Linn. Reproductive biology and proteins	1990
4.	Raminderpreet Kaur	Reproductive Biology of <i>Erythrina</i> Linn.	1993
5.	Niti	Exploration of cytomorphological diversity in the woody ornamentals.	2006
6.	Sukhjinder Kaur	Cytomorphological studies in the some flowering plants of Kinnaur District (H.P.).	2009
7.	Shubhpreet Kaur	Cytomorphological investigations in the plants of Polypetalae from Dalhousie hills and its adjoining (H.P.).	2010
8.	Ramandeep Kaur	Cytomorphological studies in some Dicots of Manali hills.	2011
9.	Puja Garg	Cytomorphological investigation in some dicotyledonous plants of Mandi District (Himachal Pradesh)	2012
10.	Vandna	Exploration of cytomorphological diversity in the Grasses of Parvati Valley in Kullu district (Himachal Pradesh)	2013

19. List of Papers/Courses taught at U.G. and P.G. Level

S. No.	Paper	Class
1.	Taxonomy of Angiosperms	M.Sc.-I & M.Sc. (Hons.)-II
2.	Plant Resource Utilization	M.Sc.-II
3.	Plant Cytogenetics	M.Sc.-I
4.	Genetics and Plant Breeding	M.Sc.-II
5.	Biodiversity and Environment	M.Sc. (Hons.)-III
6.	Advances in Botany	M. Phil & Ph.D. (CW)

20. Technical Proficiency

For the last 43 years, I am engaged in research pertaining to cytogenetics and systematics of Angiosperms. I have published 183 research papers on taxonomy, forest vegetation and cytomorphological diversity. I have guided 12 Ph.D. and 10 M.Phil. students. Three students are pursuing for their Ph.D. degree mainly on the cyto-morphological diversity, and germplasm evaluation of Grasses and Dicots

21. Publications

LIST OF PUBLICATIONS

BOOKS

1. N.S. Atri, R.C. Gupta, M.I.S. Saggoo and **V.K. Singhal** (Eds.). 2009. *Germplasm Diversity and Evaluation – Angiosperms*. Bishen Singh & Mahendra Pal Singh, Dehra Dun.
2. N.S. Atri, R.C. Gupta, M.I.S. Saggoo and **V.K. Singhal** (Eds.). 2009. *Germplasm Diversity and Evaluation – Algae, Fungi and Lichens*. Bishen Singh & Mahendra Pal Singh, Dehra Dun.
3. N.S. Atri, R.C. Gupta, M.I.S. Saggoo and **V.K. Singhal** (Eds.). 2012. *Biodiversity Evaluation- Botanical Perspective*. Bishen Singh & Mahendra Pal Singh, Dehra Dun.

PAPERS

1. Gill. B. S., Bir, S. S. and **Singhal, V.K.** 1979 In IOPB Chromosome number reports LXIV - *Taxon* **28**: 391-408. (IF=2.7)
2. Gill. B. S., Bir, S. S. and **Singhal, V.K.** 1979 In IOPB Chromosome number reports LXIV - *Taxon* **28**: 627-637. (IF=2.7)
3. Gill. B. S., Bir, S. S., **Singhal, V.K.** and Bedi, Y. S. 1980 Cytological studies in some grasses from Pachmarhi forests (Central India). *J. Cytol. Genet.* **15**: 51-57.
4. **Singhal, V.K.**, Gill, B. S. and Bir, S. S. 1980 In IOPB Chromosome number reports LXIX - *Taxon* **29**: 347-367. (IF=2.7)
5. **Singhal, V.K.**, Gill, B. S. and Bir, S. S. 1980 In Chromosome number reports LXIX - *Taxon* **29**: 703-730. (IF=2.7)
6. Gill, B. S., Bir, S. S. and **Singhal, V.K.** 1981 In Chromosome number reports LXXI *Taxon* **30**: 508-519. (IF=2.7)
7. Gill, B. S., Bir, S. S. and **Singhal, V.K.** 1981 Cytological studies in north Indian Pomegranate (*Punica granatum* Linn.) *J. Cytol. Genet.* **16**: 35-45.

8. Gill, B. S., **Singhal, V.K.**, Bedi, Y. S. and Bir, S. S. 1981 Accessory chromosomes in woody taxa. **In** P. K. Khosla (Ed.) *Advances in Forest Genetics* Ambica Publishers, New Delhi, pp. 157-166.
9. **Singhal, V.K.** and Gill, B. S. 1981 Structural heterozygosity in *Citrus jambhiri* Lush. (Rutaceae). *Cell Chromosome News Letter* **4**: 58-60.
10. Gill, B. S., Bir, S. S. and **Singhal, V.K.** 1982 Cytological studies in some western Himalayan woody species II. Polypetalae. **In** G. S. Paliwal (Ed.) *The Vegetational Wealth of Himalayas*. Puja Publishers, New Delhi, pp 497-515.
11. Gill, B. S., Bir, S. S. and **Singhal, V.K.** 1982 Cytogenetics of some timber species of *Terminalia* Linn. (Combretaceae). *Indian Nat. Sci. Acad.* **48B**: 779-790.
12. **Singhal, V.K.**, Gill, B. S. and Bir, S. S. 1982 Cytology of some Indian species of *Grewia* Linn. (Tiliaceae). *J. Tree Sci.* **1**: 88-97.
13. Bir, S. S., Gill, B. S., Bedi, Y. S. and **Singhal, V.K.** 1982 Evolutionary status of the woody taxa of Garhwal Himalayas. **In** P. K. Khosla (Ed.) *Improvement of Forest Biomass* ISTS Publishers, Solan, pp. 81-98.
14. **Singhal, V.K.**, Gill, B. S. and Bir, S. S. 1983 Natural triploidy in *Eugenia uniflora* Linn. *Sci. Cult.* **49**: 132-133.
15. **Singhal, V.K.**, Gill, B. S. and Bir, S. S. 1983 Cytopalynology of some members of Rutaceae. *Proc. Ind. Acad. Sci.* **92**: 381-385.
16. **Singhal, V.K.**, Gill, B. S. and Bir, S. S. 1983 Cytology of some species of Flacourtiaceae. *J. Cytol. Genet.* **18**: 20-25.
17. Gill, B. S., Bir, S. S., Sidhu, M. S. and **Singhal, V.K.** 1984 **In** Chromosome number reports. *Taxon* **33**: 536-539. (IF=2.7)
18. **Singhal, V.K.** and Gill, B. S. 1984 Cytology of *Buchanania lanzan* Spreng. *J. Tree Sci.* **3**: 126-127.
19. **Singhal, V.K.**, Gill, B. S. and Bir, S. S. 1985 Cytological studies in some members of Malpighiaceae. *Cytologia* **50**: 1-8. (IF=0.31)
20. **Singhal, V.K.**, Gill, B. S. and Bir, S. S. 1985 Intraspecific polyploidy in *Annona squamosa* Linn. *Sci. Cult.* **51**: 100-101.
21. **Singhal, V.K.**, Gill, B. S. and Bir, S. S. 1985 Cytology of woody species. *Proc. Ind. Acad. Sci.* **94**: 607-618.
22. **Singhal, V.K.**, Gill, B. S. and Bir, S. S. 1985 Cytopalynological studies in some woody species (Polypetalae) II. *J. Palynol.* **21**: 56-67.
23. **Singhal, V.K.** and Gill, B. S. 1985 **In** SOCGI Plant Chromosome number reports II. *J. Cytol. Genet.* **19**: 111-117.
24. **Singhal, V.K.** and Gill, B. S. 1985 Cytomixis in some woody species. *Biologica* **2**: 168-175.
25. **Singhal, V.K.** and Gill, B. S. 1987 Cytological Studies of woody members of Sterculiaceae. *J. Cytol. Genet.* **22**: 96-101.
26. Bir, S. S., Bedi, Y. S., Gill, B.S. and **Singhal, V.K.** 1987 Forest vegetational characteristics of the Garhwal Himalayas. *Bull. Bot. Surv. India* **29**: 292-318.

27. **Singhal, V.K.** and Sharma, M. 1988. *Oenothera laciniata* Hill from India. *Indian J. Bot.* **11**: 195-197.
28. Sharma, M., **Singhal, V.K.** and Kaur, P. 1988 *Geranium carolinianum* Linn. - An addition to the Indian Flora from Patiala district, Punjab. *J. Bombay Nat. Hist. Soc.* **85**: 247-250.
29. Gill, B. S., **Singhal, V.K.** and Kaur, A. 1989 Genetic variability in trees of social forestry I. *Eugenia jambolana* Lamk. **In** M. L. Trivedi, B. S. Gill and S. S. Saini (Eds.) *Aspects of Plant Sciences XI*. Today & Tomorrow's Publishers, New Delhi, pp. 279-284.
30. **Singhal, V.K.** and Kaur, K. 1989. Reproductive biology of *Murraya paniculata* (L.) Jack. **In** Trivedi, M. L., Gill, B. S. and Saini, S. S. (Eds.) *Aspects of Plant Sciences XI*. Today & Tomorrow's Publishers, New Delhi, pp. 447-458.
31. Gupta, R. C. and **Singhal, V.K.** 1989 Induced autotetraploidy in *Coreopsis maritima* Hook. *J. Cytol. Genet.* **24**: 167-168.
32. **Singhal, V.K.** and Gill, B. S. 1989 Cytological evolution in the woody taxa of Polypetalae from India. *J. Tree sci.* **8**: 1-9.
33. **Singhal, V.K.**, Gill, B.S. and Sidhu, M.S. 1990 Cytology of some woody members of Rosaceae from Indian forests. *Proc. Indian Acad. Sci.* **100**: 17-21.
34. **Singhal, V.K.** and Gill, B.S. 1990 Chromosomal studies in some members of Anacardiaceae *J. Cytol. Genet.* **25**: 36-42.
35. **Singhal, V.K.**, Gill, B.S. and Sidhu, M.S. 1990 Cytological explorations of Indian woody legumes. *Proc. Indian Acad. Sci.* **100**: 319-331.
36. Gill, B.S., **Singhal, V.K.**, Bedi, Y.S. and Bir, S.S. 1990 Cytological evolution in the woody taxa of Pachmarhi Hills. *J. Cytol. Genet.* **25**: 308-320.
37. Gill, B. S. and **Singhal, V.K.** 1990. Germplasm evaluation in *Syzygium cumini* for agroforestry. XIX IUFRO World Forestry Congr. Montreal, Canada.
38. Gill, B. S. and **Singhal, V.K.** 1990 Intraspecific variability in *Syzygium cumini*. *J. Tree Sci.* **10**: 23-26.
39. **Singhal, V.K.**, Kirandeep Kaur, Gupta, R. C. and Gill, B. S. 1991 Breeding systems in *Murraya koenigii* and *M. Paniculata*. *J. Tree Sci.* **10**: 1-8.
40. Gill, B. S., **Singhal, V.K.** and Sharma, R. 1991 Intraspecific variability in *Syzygium cumini* (L.) Skeels - a tree of social forestry. *J. Tree Sci.* **10**: 62-65.
41. Gill, B. S. and **Singhal, V.K.** 1992 Strategies for germplasms evaluation and conservation of west Himalayan trees. **In** P. K. Khosla (Ed.) *Status of Indian Forestry: Problems and Prospectives*. ISTS Publishers, Solan, pp. 261-274.
42. **Singhal, V.K.**, Kirandeep Kaur and Atula Salwan 1994. Reproductive Biology of *Murraya koenigii* (Rutaceae). **In**: Sarma, T. A., Saini, S. S., Trivedi M. L. and Sharma, M. (Eds.) *Current Researches in Plant Sciences*. Bishen Singh Mahendra Pal Singh, Dehra Dun, pp. 237-243.
43. **Singhal, V.K.**, Gill, B. S. and Sharma, R. 1995 Germplasm evaluation in *Morus alba* for fruit. *J. Tree Sci.* **14**: 15-17.
44. Gill, B. S. and **Singhal, V.K.** 1996 Cytogenetical status of North West Indian ornamental hardwoods. **In** P. K. Khosla (Ed.) *Ecofriendly Trees for Urban Beautification* ISTS Publishers, Solan, pp. 143-151.

45. Gill, B. S. and **Singhal, V.K.** 1997 Strategies for conservation of genetic diversity in Indian Forest Trees. XI World Forestry Congress Turkey Abs. 220 (<http://www.fao.org/forestry/docrep/wfcxi/publi/PDF/V2E.T8.PDF>).
46. Gill, B. S. and **Singhal, V.K.** 1998 Chromosomes, chromosomal techniques and chromosomal evaluation in trees. In A. K. Mandal and G. L. Gibson (Eds.) *Forest Genetics and Tree Breeding* CBS Publ. & Dist., New Delhi pp. 167-183.
47. Gill, B. S. and **Singhal, V.K.** 1998 Chromosomal systems of Indian Hardwoods In P. Kachroo (Ed.) *Advances in Cytogenetics*. Bishen Singh Mahendra Pal Singh, Dehra Dun. pp. 239-265.
48. **Singhal, V.K.** and Atula Salwan 1998 'Bael' - 'Ek Bahupyogi Phal'. *Jeevantii* **16**: 37-43.
49. Gill, B. S., **Singhal, V.K.** and Maninder Kaur 1999. North West Indian Neem - A status report. *JPAS* **1**: 115-125.
50. Gill, B. S. and **Singhal, V.K.** 2000 Morphogenetic diversity in Indian forest based fruit resources. In R. K. Kohli, H. P. Singh, S. P. Vij, K. K. Dhir, D. R. Batish and D. K. Khurana (Eds.) *Man and Forests* ISTS, Solan pp. 9-21.
51. Gill, B. S. and **Singhal, V.K.** 2002 Status of Genetic diversity in Indian hardwoods. In S. P. Vij, K. Kanda, M. L. Sharma, and Ashish Gupta (Eds.) *Plant Genetic Diversity, Exploration, Evaluation and Conservation*. Affiliation East West Press Pvt. Ltd., New Delhi pp. 167-179.
52. Gill, B. S., **Singhal, V.K.** and Kaur, M. 2002 Studies on seed biology of North West Indian Neem. *JPAS* **2**: 38-41.
53. **Singhal, V.K.**, Kaur, A. and Gupta, R.C. 2003. Floral biology, pollination mechanism and breeding system in *Acacia nilotica*. *J. Tree Sci.* **22**: 1-8.
54. **Singhal, V.K.** and Kaur, A. 2004. Germplasm evaluation for bark tannins in *Acacia nilotica* from North West India. *J. Tree Sci.* **23**: 41-46.
55. **Singhal, V.K.** and Kaur, A. 2004 Intervarietal and provenance variation in pod and seed characters and seed viability in *Acacia nilotica* (Linn.) Willd., ex Del. In J. S. Dargan and T. A. Sarma, (Eds.) *Plant Biodiversity and its Conservation* Bishan Singh Mahendra Pal Singh Dehra Dun. pp.169-176.
56. Gill, B. S., Ranote, P. S. and **Singhal, V.K.** 2004 Polyploid complex of Jamun - Fruit Diversity in North West Indian taxa. *JPAS* **1**: 25-28.
57. **Singhal, V.K.**, Gill, B. S., Dhaliwal, R. S. and Sidhu, S. 2004. Morphogenetic diversity in pomegranate through isoperoxidase profile. *Bionature* **24**: 89-94.
58. **Singhal, V.K.** and Kaur, A. 2004. Germplasm evaluation for gum in *Acacia nilotica* - a tree of agroforestry. In Chauhan, S.K., Gill, S.S., Salrma, S.C. and Chauhan, R. (Eds.) Proc. National Symposium on 'Agro forestry' in 21st. Century PAU, Ludhiana Agrotech. Publ. Acad. Udaipur. pp. 282-285.
59. **Singhal, V.K.** and Kaur, A. 2004. Germplasm evaluation for fodder characteristics in babul from North West India. *JPAS* **1**:113-117.
60. **Singhal, V.K.**, Sidhu, M.K. and Kaur, J. 2005. First chromosome report for the genus *Helinus* Meyer (Rhamnaceae). *JPAS* **2**: 99-100.
61. **Singhal, V.K.**, Kaur, H. and Dhaliwal, R. S. 2005. Floral biology, pollination mechanism and breeding system in *Bauhinia variegata* Linn. *Bionature* **25**: 83-88.

62. Gill, B.S., **Singhal, V.K.** and Dhaliwal, R. S. 2006. Status of cytogenetical diversity in North West Indian Jamun. *J. Cytol. Genet.* **7** (NS): 87-90.
63. **Singhal, V.K.**, Kaur, H., Dhaliwal, R. S. and Kumar, P. 2006. Phenology, pollination mechanism and breeding system in *Butea monspersma* (Lam.) Taub. *Bionature* **26**: 21-32.
64. **Singhal, V.K.**, Kaur, A. and Dhaliwal, R.S. 2007. Evaluation of morphogenetic diversity in *Acacia nilotica* from North West India. *J. Tree. Sci.* **26**: 32-41.
65. Kumar, P., **Singhal V.K.**, Sidhu, M. K., Kaur, J. and Jyotsna. 2007. Cytological investigations in some members of Monochlamydeae from northern India. *JPAS* **4**: 75-81.
66. **Singhal, V.K.**, Gill, B.S. and Dhaliwal, R.S. 2007. Status of chromosomal diversity in the hardwood tree species of Punjab state. *J. Cytol. Genet.* **8**(NS): 67-83.
67. **Singhal, V.K.**, and Kumar, P. 2008. Impact of cytomixis on meiosis, pollen viability and pollen size in wild populations of Himalayan poppy (*Meconopsis aculeata* Royle). *J. Biosci.* **33**: 371-380. (IF=1.759)
68. Kumar, P. and **Singhal, V.K.** 2008. Cytology of *Caltha palustris* L.(Ranunculaceae) from cold regions of Western Himalayas. *Cytologia* **73**: 137-147. (IF=0.91)
69. **Singhal, V.K.** Kaur, D and Kumar, P. 2008. Effect of cytomixis on the pollen size in 'Seabuckthorn' (*Hippophae rhamnoides* L. Elaeagnaceae). *Cytologia* **73**: 167-172. (IF=0.91)
70. Kumar, P., **Singhal, V.K.** and Kaur, J. 2008. Cytomixis induced meiotic abnormalities in pollen mother cells of *Clematis flammula* L. (Ranunculaceae). *Cytologia* **73**: 381-385. (IF=0.91)
71. Kumar, P., **Singhal, V. K.** and Kaur, D. 2008. Meiotic studies in species from the cold deserts of Lahaul-Spiti and adjoining areas (northwest Himalaya). *Cytologia* **73**: 463-470. (IF=0.91)
72. **Singhal, V. K.** and Kumar, P. 2008. Cytomixis during microsporogenesis in the diploid and tetraploid cytotypes of *Withania somnifera* (L.) Dun. (Solanaceae). *Comp. Cytogenet.* **2**: 85-92. (IF=0.755)
73. Gupta,R.C., **Singhal, V.K.**, Dhaliwal, R.S and Kaur, H. 2008. Population cytogenetics II. Chromosome studies on *Tridax procumbens* Linn. from north west India. *Bionature* **28**: 25-32.
74. **Singhal, V.K.**, Kaur, A. And Saggoo, M.I.S. 2008. Reproductive biology and germplasm evaluation of *Acacia nilotica* (Linn.) Willd. ex Del. From north India. *Muelleria* **26**: 86-94. (IF=0.50)
75. **Singhal, V.K.**, Gill, B.S. and Kumar, P. 2009. Recent developments in tree cytogenetics in India. In: Atri, N.S., Gupta, R.C., Saggoo, M.I.S. and Singhal, V.K. (eds.) *Germplasm Diversity and Evaluation – Angiosperms*. Bishen Singh & Mahendra Pal Singh, Dehra Dun, pp.173-228.
76. **Singhal, V.K.**, Kaur, S., Kaur, D. and Kumar, P. 2009. New detection of haploid chromosomes, pollen size and sterility in *Lychnis indica* Benth. var. *fimbriata* Wall. *Chromosome Bot.* **4**: 53-56. (IF=0.26)
77. **Singhal, V.K.**, Kumar, P., Kaur, D. and Rana, P.K. 2009 Chromatin transfer during male meiosis resulted into heterogeneous sized pollen grains in *Anemone rivularis* Buch.- Ham. ex DC. from Indian cold deserts. *Cytologia* **74**: 229-234. (IF=0.91)
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