BIO-DATA

1. **Name** : **Dr. M.I.S. SAGGOO**
2. **Designation** : **PROFESSOR (Retired)**
3. **Department** : **Department of Botany, Punjabi University, Patiala**
4. **Date of Birth** : **13.05.1955**
5. **Address for Correspondence** : **# 71, Indra Puri, Sirhind Road, Patiala 147004, India**

Mobile : **9198880 80327**

E-mail : **msaggoo@rediffmail.com**

6 **Areas of Specialisation** : **Cytogenetics, Environmental Mutagenesis**

7. **Academic Qualifications:**

Sr. no.	Degree Held	Year	Board/Univ./ Inst.	% of marks	Div./ Rank	Subjects Taken
1	Matric	1971	Pb. S.E.B.	67	Ist	
2	B.Sc.	1975	GNDU, Amritsar	66.2	Ist	Botany, Zoology, Chemistry
3	M. Sc.	1977	P.U. Patiala	69.9	Ist/Rank 1	Botany
4	M. Phil.	1980	P.U. Patiala		Grade 'O'	Botany
5	Ph.D.	1983	P.U. Patiala			Botany

8. **Membership of Professional Bodies/Organisations:**

i. Life Member, Indian Botanical Society, Agra
ii. Life Member, Society of Cytologists and Geneticists of India, Bangalore
iii. Life Member, Environmental Mutagen Society of India, Mumbai
iv. Life Member, Punjab Academy of Science, Patiala
v. Life Member, Indian Institute of Ecology, JNU, New Delhi
vi. Member: Indian Science Congress Association, Kolkata

9. **Medals/Awards/Honours/Received**

i) Gold Medal for First Position in M.Sc. Botany

10. **Scholarships:**

i) Punjab Govt. State Merit Scholarship 1975-1977 (For Merit in B.Sc.)
ii) Junior Research Fellow (C.S.I.R., New Delhi),
iii) SRF (CSIR, New Delhi)

11. **Details of Experience:**

S. No.	Name of the Inst./Employer	Position Held	Duration	Major Job Responsibilities and Nature of Experience
1.	D.P.D. Pbi. Univ. Patiala	Lecturer	1983-87	Editing, scripting in Punjabi, Teaching in Botany Dept.
2.	Dept of Botany, Punjabi University, Patiala	Lecturer, Reader, Professor	1987-2015	Teaching and Research, Administration: HOD, Addl Dean Research
3	Dept of Botany, Punjabi University, Patiala	Professor Reemployed	2015-2020	Teaching and Research.

12. **Published Work (Please specify numbers only):**

a. Research Papers : 139 (120 in English + 19 in Punjabi)
b. Conference/Seminar Presentation 75
c. Books
   i) Original : 02
   ii) Edited : 04
   (list attached)

13. Editorial Assignments:

- ***Assistant Editor of the Journal of Cytoloy and Genetics***, the chief organon of Society of Cytologists and Geneticists of India, Bangalore (1987-90)
- ***Associate Editor 'Vigian de Nakash'***, a research journal in Punjabi language published by Punjabi University, Patiala (1984-90)
- ***Associate Editor Journal Punjab Academy Sciences***, Published by Punjab Academy of Sciences, P.U. Patiala (2003 on ward)

14. Organizational, Administrative and Academic Assignments

- ***Additional Dean Research***, Punjabi University, Patiala from July 2011 to June 2015.
- **Head, Department of Botany,** Punjabi University, Patiala from May 2014- June 2015.
- ***Co-coordinator for Centralized Admission Cell*** for online admission for various courses at Patiala Campus, Regional centres, Neighbourhood Campuses and constituent colleges of Punjabi University, Patiala for session 2012-13, 2013-14, and 2014-15.
- ***Coordinator for Common Entrance Test*** for admission to M.Phil/Ph.D courses at Punjabi University, Patiala (session 2011-12)
- ***Coordinator*** for preparation of Handbook of Information for admission to general and Professional courses for years 2011-12 and 2012-13.
- ***Co-coordinator*** for preparation of Handbook of Information for admission to general and Professional courses for year 2010-11.
- ***Co-coordinator for State Level Joint Entrance Test*** for admission to B.Ed course in the Education Colleges of Punjab (session 2007-08)
- **Conferences/ refresher courses at HRD center organized : 07**

15. R & D Projects

1	**To study cytogenetic effects of water contaminated with industrial effluents**	**UGC**
2	***In situ* monitoring the genotoxic potentialities of polluted sites in Patiala**	**UGC**
3	**Evaluation of Indian Medicinal Plants for their potentialities of counteracting cytotoxicity of known environmental chemical agents**	**UGC**
4	**Bumble bee diversity and its role in conserving the high altitude vegetation germplasm in the N. W. Himalayan region**	**MOEF**
5	**Cytmorphological studies on family Cyperaceae from Punjab plains and adjoining areas**	**UGC**
6	**Co-ordinator SAP – III of DRS**	**UGC**

16. Invited Talks/Articles

i) **Cell Cycle-gene & control**- Govt. Science College, Jagraon (Jan., 2000)
ii) **Structure of DNA**- Guru Nanak Girls College, Ludhiana (Oct., 2002)
iii) **Air pollution and plants**-Lions Club Seminar, Phagwara (Aug., 2004)
iv) **Gene mapping-** Khalsa College Sri Ganganagar (Feb. 2007)
v) **Genetics of Cell cycle**- CAS in Botany, Madras University, Chennai (March, 2009)
vi) **Green Cleaning** – Department of Zoology, Punjabi University, Patiala (Dec. 2010)
vii) **Plastics: Issues, reality and solutions**- Department of Zoology & Environment Sciences, Punjabi University, Patiala (July, 2011)
viii) **New rules for Ph.D in the University**'- at 'Workshop for Ph.D students' organized by Academic Staff College, Punjabi University, Patiala (July 2011)
ix) **'Environment Mutagens and Plants**'- invited lecture on Science day on at Govt. Science College, Jagraon (28-02-12)
x) **Indoor Plants**- NSS Programme Coordinators Workshop, organized by NSS Dept. P.U. Patiala (August, 2012)

xi) Delivered talk on " **Day To Day Encounters With Science**" as chief guest in prize distribution function of Science exhibition organized by Govt PG College, Ambala Cantt, (Haryana) on Oct 21, 2013.

xii) Delivered invited talk on "**Molecular Markers in plant Sciences**" organized by Dolphin College of Life Sciences, Chunni Kalan, Distt. Fatehgarh Sahib on Feb 20,2014.

xiii) Delivered invited Lecture on **"Morphological, cytological and biochemical evaluation of North Indian collection of *Aloe vera* (L) Burm.F."** during International Conference on Medicinal Plants and Herbal Drugs for Human Welgare (ICMP-2015) organized by CAS in Botany & centre for Herbal Sciences, University of Madras, Chennai on Jan. 28, 2015.

xiv) Delivered invited Lecture on " **Screening and evaluation of morphogenetic polymorphism in medicinal plants"** during 18th Punjab Science Congress, organized by Desh Bhagat University, Mandi Gobindgarh on Feb 08,2015

xv) Delivered invited lecture on "**Cultivation of medicinal plants- some issues"** during National conference on Recent Advances in plants and Agricultural Sciences on March 16,2019.

xvi) Delivered invited lecture on "**Pteridophytes-the plants with untapped potentials and immense oppurtunities"** during National conference on New Insights in Biological and Environmental Sciences on May 25, 2019.

xvii) **Resource person**: Delivered Lectures to the College/University teacher participants of Orientation Courses, Summer Workshops, Winter Workshops and Refresher Courses (Botany, Life Sciences, Environment & Education, Research Techniques) conducted by the HRD centers (Academic Staff Colleges) at Punjabi University, Patiala, Panjab University, Chandigarh, Guru Nanak Dev University, Amritsar, Jammu University, Jammu.

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

S. No.	Name of the Student	Title of Thesis	Year of Completion
1.	Geeta Batish	Mutagenic Studies in Indian *Ocimums*	1997
2.	Parveen Sharma	Monitoring the genotoxic potentialities of plants grown on copper and lead contaminated soil	2002
3.	Jatinder Kour	Effect of Selenium uptake on cytomorphology and food of some crops	2005
4.	Arneet Grewal	Effect of chromium uptake on cytomorphology and food quality of some vegetable crops	2005
5.	Harpreet Singh Bhatia	Survey and germplasm evaluation of industrially important high altitude drug plant species of N. W. Himalayas	2005
6.	Nivedita	Effect of cadmium on cytomorphology and consumability potentials of some food crops	2007
7.	Ashwani Kumar	Studies on genetic-biochemical characterization and analysis of quercetin marker in *Tribulus terrestris*	2008
8.	Ramandeep Kaur	Evaluation and Improvement of germplasm of *Aloe vera* L. from North India	2011
9.	Kirandeep Kaur	Assessment of Morphologenetic Diversity and Phytoremediation Potentials of Plants Growing in Arsenic Rich Soils of Punjab.	2011
10.	Ravneet Kaur	Assessment of phenotypic and genotypic diversity in *Eclipta alba* (L) Hassk.: An important medicinal plant.	2012
11.	Devender Kumar Srivastava	Cytomorphological Diversity in Species of Labiatae and Scrophulariaceae from Lahaul-Spiti and Adjoining Areas.	2012
12.	Harbans Singh	Cytomorphological diversity in grasses from north-west and central india	2013
13.	Umar Farroq	Evaluation of Cytomorphological diversity	2013

		in the members of Monochlamydeae from Kashmir	
14.	Lovleen	Assessment of Cytomorphological diversity In species of Monochlamydeae from District Kangra (Himachal Pradesh)	2015
15.	Rakesh Gupta	Evaluation of heavy metal Phytoremediation potential of plants inhabiting tannery Polluted soils	2015
16.	Navdeep Kaur	Bioprospecting genetic diversity in some endangered Plants of Punjab and their conservation	2017
17.	Kamlesh Kumari	Evaluation of cytomorphological diversity in monocots of district Kinnaur	2018
18.	Mandeep Kaur	Evaluation of cytomorphological diversity in medicinal ferns from north west India	2021
19.	Arifa Akhtar	Evaluation of genetic diversity in *Lavatera cachemiriana* Cambess. and *Asplenium trichomanes* Linn. From Kashmir	
20.	Showkat A. Zargar	Evaluation of Morphogenetic diversity of apricot germplasm of Jammu and Kashmir	
21.	Neeraj Kumar	Evaluation of Cytomorphological Diversity in the Sedges of North India	Registered

18. M.Phil. Students guided:

S. No.	Name of the Student	Title of Thesis	Year of Completion
1.	Bindu	Cytological effects of some Indian medicinal plants on *Allium* meristem	1990
2.	Harmohanjit Kaur	Cytological effects of water extracts of Indian Medicinal plants *Viola odorata* in *Allium cepa* and *Hordeum vulgare*	1991
3.	Poonam	*In situ* monitoring the habitat genotoxicity of some polluted sites using plant based assays	1993
4.	Poonam Grewal	Cytological investigations in North West Indian Labiatae	2006
5	Shilpa Walia	Evaluation 0f Genetic diversity in Croton bonplandianum Baill from North India	2009
6	Mandeep Kaur Bajwa	Assessment of Cytomorphological Diversity in species of Gamopetalae from Dalhousie Hills (H.P)	2010
7.	Rupinderpal Kaur	Evaluation of Cytomorphological Diversity and Bioactivity of *Chenopodium album L.* From North India	2011
8.	Gurpreet Kaur	Evaluation of Genotoxicity of soils irrigated by tannery effluents	2012
9.	Bhavana	Evaluation of genetic diversity in Rumex dentatus from Punjab	2013
10	Safeer Ahmad	Cytomorphology of medicinal ferns	2019

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

S. No.	Paper	Class
1.	Advances in Botany – I	M. Phil.
2.	Advances in Botany – II	M. Phil.
3.	Research Techniques	M. Phil/ Ph.D.
4.	Cytogenetics and Molecular Genetics	M. Sc. I
5.	Cell Biology	M. Sc. I
6.	Bryology	
7.	Cytogenetics	M. Sc. I
8.	Molecular Genetics	M. Sc. I
9.	Agriculture Botany	M. Sc. II
10.	Crop Genetics and Plant Breeding	M. Sc. Hons II
11.	Cytogenetics	M.Sc Hons (FYIC)
12.	Plant breeding	M.Sc Hons (FYIC)
13.	Advanced Cytogenetics	M.Sc Hons (FYIC)
14.	Advanced Molecular Genetics	M.Sc Hons (FYIC)

20. Technical Proficiency

I. **Field Botany**: Explored wild medicinal and other plants from Himalayas, Punjab Plains, Central India, South India.
II. **Vegetation Analysis**: Ecological Parameters.
III. **Cytological Analysis**: Meiotic as well as Karyotypic.
IV. **Environmental Genotoxicity**: Monitoring eco-genotoxins using Plant based assays.
V. **Mutagenicity assays**: Allium assay, Ames assay, Rec assay, MNC assay.
VI. **Molecular markers**: RAPD analysis
VII. **Biostatistical analysis:** SPSS based analysis

21. LIST OF PUBLICATION

A. BOOKS:

1. Bir, S.S. and **Saggoo, M.I.S** (ed.) 1989. ***Perspectives in Plant Sciences in India***. Today &Tomorrow Booksellers & Publishers Pvt. Ltd. New Delhi.

2**. Saggoo, M.I.S.** 1990. ***Punjab De Rukh*** (Trees of Punjab in Punjabi). Publication Bureau, Punjabi University, Patiala.(In PUNJABI)

3. Atri, N.S., Gupta, R.C., **Saggoo, M.I.S.** and Singhal, V.K. (Eds) 2009. ***Germplasm, Diversity and Evaluation : Algae Fungi and Lichens***. Bishen Singh Mohendra Pal Singh, Dehra Dun.

4. Atri, N.S., Gupta, R.C., **Saggoo, M.I.S.** and Singhal, V.K.(Eds) 2009. ***Germplasm, Diversity and Evaluation : Angiosperms***. Bishen Singh Mohendra Pal Singh, Dehra Dun.

5. Atri, N.S., Gupta, R.C., **Saggoo, M.I.S.** and Singhal, V.K.(Eds) 2012. ***Biodiversity Evaluation-Botanical Prospective.*** Bishen Singh Mohendra Pal Singh, Dehra Dun.

6. Gill Arneet and **Saggoo, M.I.S.** 2012. ***Chromium Bioaccumulation: Consumability Potential of Vegetables-Cytogenetics, Morphology and Food Quality***. LAP Lambert Academic Publishing, Saarbrücken, Germany

B. PAPERS:

1. Bir, S.S., Kumari, S., Shoree, S.P. and **Saggoo, M.I.S.** 1978. Cytological studies in certain Bicarpellatae from North and Centrtal India. *J. Cytol. Genet*..**13**: 99-106.

2. Bir, S.S. and **Saggoo, M.I.S.** 1979. Chromosome numbers in certain Acanthaceae, Verbenaceae and Labiatae-I. In IOPB Chromosome number reports LXV. *Taxon* **28**:630-631.

3. Bir. S.S. and **Saggoo M.I.S.** 1980. Chromosome numbers in certain Acanthaceae and Labiatae II. In: Chromosome number reports LXIX. *Taxon* **29:**711-712.

4. **Saggoo, M.I.S.** and Bir, S.S. 1981. Chromosome number in certain Acanthaceae and Labiatae III. In: Chromosome number reports LXXI. *Taxon* **30**: 515.

5. Bir, S.S. and **Saggoo, M.I.S.** 1981. Cytopalynology of certain Acanthaceae and Labiatae. *J.Palynol*. **17**: 93-102.

6. Bir, S.S. and **Saggoo, M.I.S.** 1982. Cytological studies on family Labiatae from Garhwal Himalayas.In:Paliwal,G.S.(Ed) *The Vegetational Wealth of Himalayas*, pp. 471-482.

7. **Saggoo, M.I.S.** and Bir S.S. 1982: Chromosome number in certain Acanthaceae and Labiatae IV. In: IOPB Chromosome Number Reports LXXVI. *Taxon* **31**: 593-595.

8. Bir, S.S. and **Saggoo, M.I.S.** 1982. Chromosome number in certain Acanthaceae and Labiatae V: IOPB Chromosome number reports LXXVII. *Taxon* **31**: 775.

9. **Saggoo, M.I.S.** and Bir, S.S. 1982. Chromosome number in certain Acanthaceae from Central India. *Proc. Indian Acad. Sci*. **91**: 479-496.

10. Bir, S.S. and **Saggoo, M.I.S.** 1982. Cytological studies on certain Labiatae from Central India. *Proc. Natl. Acad. Sci.*, **52**(B): 107-112.

11. **Saggoo, M.I.S.** and Bir, S.S.1983.Cytopalynological studies on Indian members of Acanthaceae and Labiatae. *J. Palynol*., **19**: 223-258.

12. **Saggoo, M.I.S.** and Bir, S.S. 1983. Cytomixis in certain Acanthaceae and Labiatae from India. *J. Cytol. Genet.,* **18**:92-99.

13. **Saggoo, M.I.S.** and Bir, S.S. 1983. Chromosome number of certain Acanthaceae andLabiatae VI. SOCGI Plant Chromosome number report. I. *J. Cytol. Genet*. **18**: 56-63.

14. Bir, S. S. and **Saggoo,M.I.S.** 1985. Cytological studies on members of family Labiatae from Kodaikanal and adjoining areas (South India). *Proc. Indian Acad. Sci. (Plants*), **94**:619-626.

15. **Saggoo, M.I.S.** and Bir, S.S. 1985. Cytologial evolution in Indian Labiatae. *Trends. Pl.Res*., Pp. 367-396.

16. **Saggoo, M.I.S.** and Bir, S.S. 1986. Meiotic studies on some East Himalayan members of family Labiatae. *J. Indian Bot. Soc*. **65**: 304-309.

17. **Saggoo, M.I.S.** and Bir, S.S. 1986. Meiotic studies on some south Indian of family Acanthaceae. *J. Indian Bot. Soc*. **65**: 310-315.

18. **Saggoo, M.I.S.** 1987. Cytomorphological observations on Rungia pectinata (Linn.) Nees. *J. Cytol. Genet.* **22**:151-155.

19. **Saggoo,M.I.S.**1988.Chromosome numbers in West Himalayan Acanthaceae. *J. Cytol. Genet*. **23**: 69-76.

20. **Saggoo, M.I.S.** 1989. Biosystematic observations of some members of Indian Acanthaceae. In Trivedi M.L., Gill, B.S. and Saini, S.S.(Eds) *Plant Sciences in India*. Today & Tomorrow Pub. Ltd., New Delhi pp. 179-187.

21. **Saggoo, M.I.S** and Bir, S.S.1989. Cytological evolution in the Indian Acanthacea. *J. Cytol. Genet*. **24**: 128-148.

22. **Saggoo, M.I.S.** 1989. Cytotoxicity of Industrial Effluents I. Monitoring of Textile Mill Effluents. *J. Cytol. Genet*. **24**:169-172.

23. Kumari, S., **Saggoo, M.I.S.** and Kaur, S. 1989. In SOCGI Plant Chromosome Number reports. VIII. *J. Cytol. Genet*. **24**: 182.

24. Kumari, S., **Saggoo, M.I.S.** and Sanjeev Kumar 1989. In SOCGI Plant Chromosome Number Reports VIII. *J. Cytol. Genet*. **24**: 182-183.

25. Kumari, S., **Saggoo, M.I.S.** and Kaur, J. 1989. In SOCGI Plant Chromosome Number Reports VIII. *J. Cytol. Genet*. **24**:183.

26. **Saggoo, M.I.S.** 1990. Cytotoxicity of industrial effluents II. Monitoring of Sugar Mill effluents. *J. Cytol. Genet.* **25**: 244-248.

27. Bir, S.S., **Saggoo, M.I.S.** and Kamni 1990. Cytological investigations on *Cuscuta reflexa* Roxb. from Patiala, Punjab State North India. *J. Cytol. Genet*. **25**: 259-270.

28. **Saggoo, M.I.S.** 1990. An easy method to study the effects of environmental chemical pollutants on chromosomes. In: S.S. Dhillon *et al* (ed.) *Environmental Pollution-Different aspects'*, Punjabi University Patiala pp.75-80.

29. **Saggoo, M.I.S.**, Kumari, S. and Bindu 1991. Assay of anticlastogenic potentialities of the crude extract of *Ephedra foliata* in *Allium* system. In: Bhatacharjee, S.B. (Ed) *Environment and Genome,* SINF, Calcutta. Pp. 284-286.

30. **Saggoo, M.I.S.**, Kumari, S. and Bindu 1991. Cytological effects of Indian medicinal plants I. Mitotic effect of leaf homogenate of *Tylophora indica* Linn. on *Allium cepa. Cytologia* **56**: 633-637.

31. **Saggoo, M.I.S.**, Kumari, S. and Bindu, 1992. Effect of *Tylophora indica* on cytotoxicity of sodium azide in the root tip cells of *Allium cepa. J. Pl. Sci. Res*. **8**: 91-93.

32. **Saggoo, M.I.S.**, Kumari, S. and Bindu, 1993. Mitotic effects of stem decoction of *Ephedra foliata* on *Allium* root tip cells. *J. Cytol. Genet*. **28**:81-83.

33. **Saggoo, M.I.S.**and Geeta, 1994. Modification of impact of Ethyl Methane Sulfonate on chlorophyll pigments in *Ocimum canum* Sims. by caffeine. *J. Indian Bot. Soc*. **72**: 307-308.

34. **Saggoo, M.I.S.**, Kaur, H. and Khera, J. 1994. Effect of pretreatment of a decoction of *Viola odorata* on clastogenic response of certain chemicals in *Allium* and barley, *J.Pl. Sci. Res*.**10**:12-17.

35. **Saggoo, M.I.S.** and Poonam, 1994. In situ monitoring of genotoxicity of sewage sludge amended soil by screening natural vegetation. *Pollution Res.* **13(3)**: 241-247.

36. **Saggoo, M.I.S.** and Khera, J. 1994. *Allium* assay for cytotoxicologcal evaluation of plant extracts. In: Sarma, T.A. et al. (Eds). *Current Researches in Plant Sciences,* Bishen Singh, Mahendra Pal Singh, Dehradun. Pp. 305-310.

37. Geeta, B and **Saggoo, M.I.S.** 1994. *Studies in the Indian ocimums-an overview. In: Sarma.,T.A. et al. (Eds.)* Current Researches inb Plantg Sciences. *Bishen Singh Mahendra Pal Singh, Dehra Dun pp.*293-298.

38. **Saggoo, M.I.S.** and Poonam. 2000. Evaluation of impact of sewage irrigation on cyto-toxicological potentialities of *Chenopodium album* in *Allium* assay. *J. Environ. Biology* **22**: 47-51.

39. **Saggoo, M.I.S.** 2000. Denizen approach for on site detection of environmental genotoxins. In: I.S.Grover and A.K.Thukral (Eds) *Recnt advances in Environmental* Sciences, Scientific Publishers, Jodhpur. Pp 103-106.

40. **Saggoo, M.I.S.**, Kumari, S. and Batish, G. 2002. Impact of ethylmethane sulfonate on chlorophyll pigments in *Ocimum* species. *J.Indian Bot.Soc*. **81**:

41. **Saggoo, M.I.S.** and Grewal,A. 2003. Safety evaluation of leafy vegetables grown over chromium amended soil. *Environ. Inf. Arch.* **1**: 591-596.

42. **Saggoo, M.I.S.** and Kour, J. 2003. Uptake of applied selenium by turnip and radish and its influence on their consumability potentials. *Environ. Inf. Arch*. **1**: 606-613.

43. **Saggoo, M.I.S.** and Poonam. 2003. Safety evaluation of sewage irrigated Bermuda grass using in vivo Allium root meristem assay. *Indian J. Environ. Ecoplan***. 7**: 235-238.

44. **Saggoo, M.I.S.**, Verma, N. and Sharma, P. 2004. Impact of heavy metals copper and lead on reproductive potentials of plants. In: J.S.Dargan and T.A.Sarma (Eds). *Plant Diversity and its conservation*, Bishen Singh Mohendra Pal Singh, Dehra Dun.

45. Kumari, S., **Saggoo, M.I.S.** and Jaswinder Kaur 2004. Assessment of cytomorphlogical variability in Clitoria tenatea Linn. In: J.S.Dargan and T.A.Sarma (Eds). *Plant Diversity and its conservation,* Bishen Singh Mohendra Pal Singh, Dehra Dun pp 325-333.

46. **Saggoo, M.I.S.**, Kumari, S. and Batish, G. 2004. Evaluation of some quantitative traits in *Ocimum pilosum* after treatment with EMS. *J. Punjab Acad. Sci*. **1**: 41-45.

47. **Saggoo, M.I.S.**, Dhillon, K.S., Dhillon, J.K. and Kour, J. 2004. Evaluation of consumability potential of leafy vegetables harvested from Selenium rich soil. *Environ. Inf. Arch.* **2**: 479-489.

48. **Saggoo, M.I.S.**, Verma, N. and Sharma, P. 2004 . Phytotoxicity of copper and lead in leafy vegetable amaranth (*Amaranthus oleraceous*). *Indian J. Environ. Ecoplan***. 8**: 353-358.

49. **Saggoo, M.I.S.**, Dhillon, K.S., Dhillon, J.K. and Kour, J. 2004. Genotoxic potential and nutritive quality of wheat harvested from selenium amended soil. *J. Punjab Acad. Sci*. **1**: 123-127.

50. **Saggoo, M.I.S.** and Nivedita .2005. Growth responses of two cultivars of spinach to Cadmium in soil. *J. Punjab Acad. Sci*. **2**: 105-107.

51. **Saggoo, M.I.S.** and Grewal, A. 2006 Genotoxic potential and nutritive quality of spinach harvested from chromium rich soil. *Pollution Res* **25**(4): 793-794.

52. Singhal V.K., Kaur A. and **Saggoo M.I.S.Saggoo**. 2008. Reproductive biology and germplasm evaluation of *Acacia nilotica* (Linn.) Willd ex Del. From north India. *Muelleria* **26:** 86-94.

53. **Saggoo, M.I.S.**, Gagandeep K. and Ramandeep K. 2008. Karyological variability in the north Indian spider plants. *Bionature* **28**: 33-37.

54. Verma, N., Ashwani K., **Saggoo, M.I.S.**, Kumar, K., Kumar, V. and Kumar, U. 2008. Chromosome Number and Morphological Variability in North Indian Gokharu (*Tribulus terrestris* Linn.) - A traditional medicinal herb. *Ad. Plant Sci*. **21**: 645-648.

55. Verma, N., Ashwani K., **Saggoo, M.I.S.**, Kaur, G., Singh, M., Kumar V. and Kumar, U. 2008. Isolation of Genomic DNA for RAPD Marker and PCR Amplification Analysis from Gokharu {*Tribulus terrestris* (L.) R.Br.}-A Proven Anti-Aging Herb. *Research Links* **53**:5-7.

56. **Saggoo, M.I.S.** and Gill, Arneet. 2009. Biological Diversity within members of Indian Acanthaceae. In : Atri, N.S., Gupta, R.C., **Saggoo, M.I.S.** and Singhal, V.K.(Eds) *Germplasm, Diversity and Evaluation : Angiosperms.*. Bishen Singh Mohendra Pal Singh, Dehra Dun.

57. Gill, A. and **Saggoo, M.I.S.** 2009. Mutagenic potential and food quality of *Amaranthus* raised over chromium amended soil. *Indian J. Environ.Sci.* **13(2):** 121-127.

58. **Saggoo, M.I.S.** and Srivastava, D.K. 2009. Meiotic studies in some species of *Pedicularis* L. from cold desert regions of Himachal Pradesh, India (North-Wet Himalayas). *Chromosome Botany* **4**: 83-86.

59. **Saggoo, M.I.S.**, Gill, A. and Nivedita. 2009. *In vivo* Accumulation of Cadmium by some food Crops. *JPAS* **5-6:** 82-87.

60. **Saggoo, M.I.S.**, Gagandeep Kaur and Ravneet Kaur. 2009. Karyological variability in the north Indian money plants. *Columban J.Life Sci*. **11**(1&2): 15-17.

61. Gill, A**.** and **Saggoo M.I.S**. 2010. Mutagenic potential and nutritive quality of turnip plants raised over chromium amended soils. *International J. Botany* **6(2):** 127-131.

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