Faculty Details proforma for DU Web-site

Title	**Professor**	First Name	**Shailendra**	Last Name	**Goel**	Photograph

Designation	**Professor**
Address	**Department of Botany** **University of Delhi** **Delhi – 110007.**
Phone No Office	**011-27662609**
Residence	
Mobile	
Email	**shailendragoel@yahoo.com**
Web-Page	

Educational Qualifications

Degree	Institution	Year	
B.Sc.	**Meerut University**	**1990**	Subjects: Zoology, Botany, Chemistry
M.Sc.	**Meerut University**	**1992**	Subjects: Botany
Ph.D.	**University of Delhi**	**1999**	Thesis topic: rDNA sequence evolution and molecular phylogeny of *Vigna* and *Phaseolus*

Career Profile

Organisation / Institution	Designation	Duration	Role
University of Georgia, USA	**Postdoctoral research associate**	**June 2000-Oct 2005**	**Research**
Institue pour la research & Developmente (IRD), France	**Postdoctoral research associate**	**Nov 2005- June 2007**	**Research**
North Eastern Hill University (NEHU), India	**Reader**	**June 2007- October 2007**	**Research and Postgraduate teaching**
University of Delhi	**Reader**	**Oct 2007- Oct 2010**	**Research and Postgraduate teaching**
University of Delhi	**Associate Professor**	**Oct 2010 – October 2013**	**Research and Postgraduate teaching**
University of Delhi	**Professor**	**October 2013- till now**	**Research and Postgraduate teaching**

Administrative Assignments

1. **VC Nominee DRC (Departmental Research Council), Department of Microbiology, University of Delhi.**
2. **Member, BOS (Board of studies), NIPGR (National Institute for Plant Genome Research), Delhi**
3. **Member, National Tea Research Foundation (NTRF), Tea Board, Calcutta**
4. **Member, BOS (Board of studies), Jamia Millia Islamia, Delhi**
5. **Store In-charge, Department of Botany, University of Delhi (2017-Onwards)**
6. **Member; Committee of Courses and Studies for Honors, Post-Graduate and Research Studies in Botany, University of Delhi (August 2009-2011).**
7. **Member; Purchase Committee for up-gradation of teaching infrastructure and instrumentation facilities at the Department of Botany, University of Delhi (2008 – 2011).**

8. **Incharge; Radioactive room facility (2011-Onwards)**
9. **Departmental webpage committee (2011-Onwards)**
10. **Departmental purchase Committee (2014-onwards)**
11. **Member courses of committee (2015-onwards)**

Areas of Interest / Specialization

Genomics, genome organization, Molecular Genetics, Molecular markers application. I am particularly interested in Apomixis and its developmental aspects. I am also trying to develop major research program on Safflower improvement. I believe in interdisciplinary work and collaborations are the best way to achieve this goal. I see myself working in collaborations with different people working on different aspects of plant research in future.

Subjects Taught

M.Sc. – Semester system (2009 onwards):

- Genetics and Cytogenetics (Core Program)
- Bioinformatics and Computational Biology (Optional Program)
- Advanced Genetics and Plant Breeding (Optional Program)

M.Phil.

- Topics in molecular biology and genetics

Ph.D.

- GR4: Methods for molecular techniques and tissue culture
- GR2: Instrumentation

Research Guidance

List against each head (If applicable)

1. *Supervision of awarded Doctoral Thesis* : 6 (awarded)
2. *Supervision of Doctoral Thesis, under progress* : **4**
3. *Supervision of awarded M.Phil dissertations* : 1
4. *Supervision of M.Phil dissertations, under progress:* nil

Publications Profile

List against each head (If applicable) (as Illustrated with examples)

Books/Monographs (Authored/Edited)

1. Ozias-Akins P, J.A. Conner, **S. Goel**, Z. Chen, Y. Akiyama and W.W. Hanna. 2003. Genomic structure of the apomixis locus in *Pennisetum*. Proceedings of International Association for Plant Tissue Culture and Biotechnology.

2. Ozias-Akins P, J.A. Conner, **S. Goel**, Z. Chen, Y. Akiyama, W.W. Hanna .2003. Genomic structure of the apomixis locus in Pennisetum. In IK Vasil, ed, Plant Biotechnology 2002 and Beyond. Proceedings of International Association for Plant Tissue Culture and Biotechnology, pp 515-518

3. Ozias-Akins P., J.A. Conner,**S. Goel**, Y. Akiyama, W.W. Hanna. 2007. Chapter 6. Genes linked with apomixis: identification and characterization. In E Hoerandl, PJV Dijk, U Grossniklaus, T Sharbel, eds, Apomixis: Evolution, Mechanisms and Perspectives (Regnum Vegetabile) Lubrecht & Cramer Ltd pp 117-124

4. **Goel S**., H.D. Singh and S.N. Raina. 2009. *Cenchrus* : a potential forage crop. Springer

WCR (Wild Crop Relatives) Series Volume 2. Wild Relatives of Millets and Forage Grasses. Kole, Chittaranjan (Ed.), Springer, Germany. **(Corresponding Author)**

5. Bali S. **S. Goel** and S.N. Raina. 2016. Technological Advances in Studying Gene Pool Diversity and Its Exploitation. In: Molecular Breeding for Sustainable Crop Improvement, pp.149-169. V.R. Rajpal, S. Rama Rao and S.N. Raina (eds.). Springer, Germany. **(Corresponding Author)**

Research papers published in Refereed/Peer Reviewed Journals

6. Y. Mangla, K. Das, S. Bali, H. Ambreen, S. N. Raina, R. Tandon, **S. Goel.** Occurrence of subdioecy and degeneration of sequence at gender-specific locus in Himalayan seabuckthorn (*Hippophae rhamnoides ssp. turkestanica*). 2018. **Heredity**. (In Press) (**Corresponding author**) **(IF 3.8)**

7. H. Ambreen, S. Kumar, A. Kumar, M. Agarwal, A. Jagannath, **S. Goel**. 2018. Association mapping for important agronomic traits in safflower (*Carthamus tinctorius* L.) core collection using microsatellite markers. **Frontiers in Plant Sciences 9:1, doi.org/10.3389/fpls.2018.00402. (Joint Corresponding author) (IF 4.3)**

8. A. Sahu, P.K. Jha, A. Prabhakar, H.D. Singh, N. Gupta, T. Chatterjee, T. Tyagi, S. Sharma, B. Kumari, S. Singh, V. Nair, **S. Goel**, M. Z. Ashraf. 2017. MicroRNA-145 Impedes Thrombus Formation *via* Targeting Tissue Factor in Venous Thrombosis. **EBioMedicine.** 26:175 – 186. **(IF 6.18)**

9. P. Kaur, N. Shukla, G. Joshi, C. V. Kumar, A. Jagannath, M. Agarwal, **S. Goel**, A. Kumar. 2017. Genome-wide identification and characterization of miRNAome from tomato (*Solanum lycopersicum*) roots and root-knot nematode (*Meloidogyne incognita*) during susceptible interaction. **PLOS One** 12(4):e0175178. doi: 10.1371/journal.pone.0175178 **(IF 2.8)**

10. N. Shukla, R. Yadav, P. Kaur, S. Rasmussen, **S. Goel**, M. Agarwal, A. Jagannath, R. Gupta, A. Kumar. 2017. Transcriptome analysis of root-knot nematode (*Meloidogyne incognita*)-infected tomato (*Solanum lycopersicum*) roots reveals complex gene expression profiles and metabolic networks of both host and nematode during susceptible and resistance responses. **Mol Plant Pathol**. doi: 10.1111/mpp.12547 **(IF4.7)**

11. S. Kumar, H. Ambreen, M. T. Variath, A. R. Rao, M. Agarwal, A. Kumar, **S. Goel** and A. Jagannath. 2016. Utilization of molecular, phenotypic, and geographical diversity to develop compact composite core collection in the oilseed crop, safflower (*Carthamus tinctorius* L.) through maximization strategy. **Frontiers in Plant Sciences 7: 1** (**Joint Corresponding author**) **(IF 4.3)**

12. K. Das, S. H. Ganie, Y. Mangla, Tanvir. H. Dar, M. Chaudhary, R. K. Thakur, R. Tandon, S. N. Raina and **S. Goel**. 2017. ISSR markers for gender identification and genetic diagnosis of *Hippophae rhamnoides* ssp. *turkestanica* growing at high altitudes in Ladakh region (Jammu and Kashmir). **Protoplasma.** 254:1063–1077 (**Corresponding author**) **(IF 2.9)**

13. V. Patial, R. Krishna, G. Arya, V. K. Singh, M. Agarwal, **S. Goel**, A. Jagannath and A. Kumar. 2016. Development of an efficient, genotype independent plant regeneration and transformation protocol using cotyledonary nodes in safflower (*Carthamus tinctorius* L.). **J. Plant Biochem. Biotechnol.** 25 (4): 421-432. **(IF 1.0)**

14. H. Ambreen, S. Kumar, T. V. Murali, G. Joshi, S. Bali, M. Agarwal, A. Kumar, A. Jagannath and **S. Goel**. 2015. Development of a novel set of genomic microsatellite markers in *Carthamus tinctorius* L. using next generation sequencing and assessment of their utility for diversity analysis and cross species transferability. **PLoS ONE 10(8)**: e0135443 **(#Joint Corresponding author) (IF 2.9)**

15. S. Sinha, V. K. Raxwal, B. Joshi, A. Jagannath, S. Katiyar-Agarwal, **S. Goel**, Amar Kumar and Manu Agarwal. *De novo* transcriptome profiling of cold-stressed siliques during pod filling stages in Indian mustard (*Brassica juncea* L.). 2015. **Front. Plant Sci.** 6:1**. (IF 4.3)**

16. A. M. Devi, **S. Goel**, A. K. Misra. 2015. Generation of silver stained TE-AFLP markers in tea (*Camellia sinensis*) and their assessment in filling gaps with construction of a genetic linkage map. **Scientia Horticulturae 192: 293. (IF 1.6)**

17. Sapinder Bali, A. Mamgain, S. N. Raina, S. K. Yadava, V. Bhat, S. Das, A. K. Pradhan, **S. Goel**. 2015. Construction of a genetic linkage map and mapping of drought tolerance trait in Indian beveragial tea. **Molecular Breeding 35:112**. **(Corresponding Author) (IF 2.5)**

18. Bhardwaj AR, G. Joshi, B. Kukreja, V. Malik, P. Arora, R. Pandey, RN. Shukla, K.G. Bankar, S. Katiyar-Agarwal, **S. Goel**, A. Jagannath, A. Kumar, M. Agarwal. 2015. Global insights into high temperature and drought stress regulated genes by RNA-Seq in economically important oilseed crop *Brassica juncea*. **BMC Plant Biol.15 (1): 9**. **(IF 4.0)**

19. Y. Mangla, M. Chaudhary, H. Gupta, R. Thakur, **S. Goel**, S. N. Raina, R. Tandon. 2015. Facultative apomixis and development of fruit in a deciduous shrub with medicinal and nutritional uses, ***AoB PLANTS*, Volume 7 (1) plv098. (IF 2.2)**

20. S. Kumar, H. Ambreen, T. V. Murali, S. Bali, M. Agarwal, A. Kumar, **S. Goel**[#] and A. Jagannath[#.] 2014. Assessment of genetic diversity and population structure in a global reference collection of 531 accessions of *Carthamus tinctorius* L. using AFLP markers. **Plant Molecular Biology Reporter. 33:1299** DOI: 10.1007/s11105-014-0828-8 **(#Joint Corresponding author)**. **(IF 1.9)**

21. Mehrotra S., **S. Goel**, S. N. Raina and V. R. Rajpal 2014. Significance of Satellite DNA Revealed by Conservation of a Widespread Repeat DNA Sequence Among Angiosperms. **Applied Biochemistry and Biotechnology** 173(7):1790-801 **(Corresponding author). (IF 1.4)**

22. Ankur R Bhardwaj, Gopal Joshi, Ritu Pandey, Bharti Kukreja, **Shailendra Goel**, Arun Jagannath, Amar Kumar, Surekha Katiyar-Agarwal, Manu Agarwal. 2014. A Genome-Wide Perspective of miRNAome in Response to High Temperature, Salinity and Drought Stresses in Brassica juncea (Czern) L. **PLoS ONE**: 9(3): e92456. **(IF 2.9)**

23. Lakhotia N, G. Joshi, A.R. Bhardwaj, S. Katiyar-Agarwal, M. Agarwal, A. Jagannath, **S. Goel**, A. Kumar 2014. Identification and characterization of miRNAome in root, stem, leaf and tuber developmental stages of potato (*Solanum tuberosum* L.) by high-throughput sequencing. **BMC Plant Biology 14:6. (IF 4.0)**

24. Sapinder Bali, Soom Nath Raina, Vishnu Bhat, Ramesh Kumar Agarwal, **S. Goel.** 2013**.** Development of a set of genomic microsatellite markers (gssrs) in tea (*Camellia* L.) (*Camelliaceae*). **Molecular Breeding 32(3): 735-741. (Corresponding Author). (IF 2.5)**

25. Tanvir H. Dar, Soom N. Raina and **S. Goel**. 2013. Molecular Analysis of Genomic Changes in Synthetic Autotetraploid *Phlox drummondii* Hook. **Biological Journal of Linnean Society** Volume 110, Issue 3, pages 591–605, **(**DOI: 10.1111/bij.12154**)** (**Corresponding author). (IF 2.3)**

26. Y. Mangla, R. Tandon, **S. Goel** and S.N. Raina. 2013. Structural organization of the gynoecium and pollen tube path in Himalayan sea buckthorn, *Hippophae rhamnoides* (Elaeagnaceae). **AOB Plants 5: plt015. (IF 2.2)**

27. Mehrotra S., **Goel S.,** S. Sharma, S. N. Raina and V. R. Rajpal. 2013. Sequence Analysis of KpnI Repeat Sequences to Revisit the Phylogeny of the Genus *Carthamus* L. **Applied Biochemistry and Biotechnology 69:1109–1125 (Corresponding author). (IF 1.4)**

28. S. N. Raina, P. S. Ahuja, R. K. Sharma, S. C. Das, P. Bhardwaj, R. Negi, S. S. Singh, R. K. Sud, R. K. Kalia, V. Pandey, J. Banik, V. Razdan, D. Sehgal, T. H. Dar, A. Kumar, S. Bali, V. Bhat, S. Sharma, B. M. Prasanna, **S. Goel**, M. S. Negi, P. Vijayan, S. B. Tripathi, B. Bera, A. K. A. Mandal, R. R. Kumar, D. Vijayan, S. Ramkumar, B. R. Chowdhury, S. S. Mandi. 2011. Genetic structure and diversity of India hybrid tea. **Genetic Resources and Crop Evolution 59 (7): 1527-1541**. **(IF 1.3)**

29. **Goel S.*,** Akiyama, Y.*, J. A. Conner, W. W. Hanna, H. Yamada-Akiyama and P. Ozias-Akins. 2011. Evolution of the apomixis transmitting chromosome in Pennisetum. **BMC Evolutionary Biology 11:289** (*Shared First Author). **(IF 3.4)**

30. Singh M, **S. Goel**, R.B. Meeley, C. Dantec, H. Parrinello, C. Michaud, O. Leblanc and D. Grimanelli. 2011. Production of viable gemetes without meiosis in maize deficient for an ARGONAUTE protein. **The Plant Cell**. 23: 443-458. **(IF 8.5)**

31. Conner JA, **S. Goel**, G. Gunawan, M.M. Cordonnier-Pratt, V. E. Johnson, C. Liang, H. Wang, L. H. Pratt, J. E. Mullet, J. DeBarry, L. Yang, J. L. Bennetzen, P. E. Klein, and Peggy Ozias-Akins. 2008. Sequence Analysis of Bacterial Artificial Chromosome Clones from the Apospory-Specific Genomic Region of *Pennisetum* and *Cenchrus*. **Plant Physiology**. 147: 1396-1411. **(IF 6.2)**

32. **Goel S.,** Y. Akiyama, Z Chen, W. W. Hanna and P Ozias-Akins 2006. Pennisetum squamulatum: is the predominant cytotype hexaploid or octaploid? **Journal of Heredity** 97(5):521-524. **(IF 2.43)**

33. **Goel S.**, Z. Chen, Y. Akiyama, J.A. Conner, M. Basu, G. Gualtieri, W.W. Hanna and

Ozias-Akins P. 2006. Comparative physical mapping of the apospory-specific genomic region in two apomictic grasses: *Pennisetum squamulatum* and *Cenchrus ciliaris*. **Genetics** 173: 389-400. **(IF 5.9)**

34. Akiyama, Y., J.A. Conner, **S. Goel**, D.T. Morishige, J.E. Mullet, W.W. Hanna, and P. Ozias-Akins. 2004. High-resolution physical mapping in *Pennisetum squamulatum* reveals extensive chromosomal heteromorphism of the genomic region associated with apomixis. **Plant Physiol**. 134:1733-1741. **(IF 6.2)**

35. **Goel, S***., Z. Chen*, J.A. Conner, Y. Akiyama, W.W. Hanna, and P. Ozias-Akins. 2003. Delineation by fluorescence *in situ* hybridization of a single hemizygous chromosomal region associated with aposporous embryo sac formation in *Pennisetum squmulatum* and *Cenchrus ciliaris*. **Genetics** 163:1069-1082. (*Shared First Author) **(IF 5.9)**

36. **Goel, S**., S.N. Raina and Y. Ogihara. 2002. Molecular evolution and phylogenetic implications of internal transcribed spacer sequences of nuclear ribosomal DNA in *Phaseolus-Vigna* complex. **Molecular Phylogenetics and Evolution** 22(1)**:** 1-19. **(IF 4.4)**

37. Raina, S.N., Y. Mukai, K. Kawagauchi, **S. Goel**, A. Jain. 2001. Physical mapping of 18S-5.8S-26S and 5S ribosomal gene families in three important vetches (*Vicia* species) and their allied taxa constituting three species complexes. **Theor. Appl. Gene.**103**:**839-845. **(IF 4.1)**

38. Rani, V., K.P. Singh, B. Shiran, S. Nandy, **S. Goel**, R. Devarumath, H.L. Sreenath and S.N. Raina. 2000. Evidence for new nuclear and mitochondrial genome organisations among high frequency somatic embryogenesis-derived-plants of allotetraploid *Coffea arabica* L. (Rubiaceae). **Plant Cell Reports** 19**:**1013-1020. **(IF 3.0)**

39. Rout, G.R., P. Das, **S. Goel** and S.N. Raina. 1998. Determination of genetic stability of micro propagated plants of ginger using Random Amplified Polymorphic DNA (RAPD) markers. **Bot. Bulletin Academia Sincea** 39**:**23-27. (Now named as Botanical Studies). **(IF 1.4)**

Research papers published in Academic Journals other than Refereed/Peer Reviewed Journals

Nil

Research papers published in Refereed/Peer Reviewed Conferences

40. Priyanka Mohapatra, Dinesh H. Singh, Gayatri Mishra, Rohit N. Shukla, Manu Agarwal, Arun Jagannath, Amar Kumar, Peggy Ozias-Akins, Wayne W. Hanna and **S. Goel**. "Understanding developmental aspects of apomixis through small RNA profiling,degradome and cell specific marker in sexual and addition lines in Pennisetum glaucum". 20th ADNAT Convention international symposium on "Genome Editing Technologies and their application in biology, medicine and agriculture organised by KIIT university on 16-18 February 2017.
41. Priyanka Mohapatra, Dinesh H. Singh, Monika sharma, Manu Agarwal, Arun Jagannath, Amar Kumar, Peggy Ozias-Akins, Wayne W. Hanna and **S. Goel**. 2017 "Elucidation of developmental aspects of apomixis through cell specific molecular markers in sexual and

addition lines of *Pennisetum glaucum*." 2nd International conference on Technological Advancement for Sustainable Agriculture and Rural development (TASARD-India.2017) organised by Society for plant research (VEGETOS) and African-Asian Rural Development Organisation (AARDO)on 20-22 February 2017.

42. K. Das, S.H. Gannie, Y. Mangla, R. Tandon, S.N. Raina, **S. Goel**. Identification of Male specific marker in *Hippophae rhamnoides* by ISSR based SCAR marker. Advancing Frontiers in Biotechnology for Sustainable Agriculture and Health (AFBSAH-2-16)" during 25-26th February, 2016 at Allahabad.
43. Vivek Kumar Raxwal, Sourav Ghosh, **Shailendra Goel**, Arun Jagannath, Amar Kumar, Vinod Scaria and Manu Agarwal. **2014**. Landscape of open chromatin during abiotic stress in Arabidopsis. Abstract: p 112. **International Symposium on Plant Signaling & Behavior,** March 7 – 10, 2014 Department of Botany, University of Delhi, Delhi – 110007.
44. Shukla N, Chauhan R, Kaur P, Joshi G, Katiyar-Agarwal S, Agarwal M, Arun Jagannath, **Goel S**, Shankar R and Kumar A. **2014**. Transcriptome profiling of roots of susceptible and resistant tomato cultivar sat various stages of infection with root knot nematode (*Meloidogyne incognita*). Abstract: p 82. **International Symposium on Plant Signaling & Behavior,** March 7 – 10, 2014 Department of Botany, University of Delhi, Delhi – 110007.
45. Kaur P, Cheeni V, Joshi G, Heisnam d, Katiyar-Agarwal S, Agarwal M, Arun Jagannath, **Goel S** and Kumar A. **2014**. Identification and characterization of miRNAome of tomato roots infected with root knot nematode (*Meloidogyne incognita*). Abstract: p 73. **International Symposium on Plant Signaling & Behavior,** March 7 – 10, 2014 Department of Botany, University of Delhi, Delhi – 110007.
46. Shivendra Kumar, Heena Ambreen, T. V. Murali, Sapinder Bali, Manu Agarwal, Amar Kumar, **Shailendra Goel*** and Arun Jagannath*. **2013**. Analysis of genetic diversity in a representative global collection of *Carthamus tinctorius* L. using AFLP. Abstract: p 255 (*: Co-Corresponding Authors). **International Conference on Plant Biotechnology, Molecular Medicine and Human Health and 7th Annual Convention of ABAP**, October 18-20, 2013 University of Delhi South Campus, New Delhi – 110021.
47. Heena Ambreen, Shivendra Kumar, T.V. Murali, Gopal Joshi, Sapinder Bali, Manu Agarwal, Amar Kumar, Arun Jagannath* and **Shailendra Goel***. **2013**. Isolation and characterization of microsatellites from the oilseed crop, *Carthamus tinctorius* L. using next generation sequencing. Abstract: *As Addendum* (*: Co-Corresponding Authors). **Won the Best Poster Award. International Conference on Plant Biotechnology, Molecular Medicine and Human Health and 7th Annual Convention of ABAP, October 18-20, 2013 University of Delhi South Campus, New Delhi – 110021.**
48. Sonia Waikhom, Jyotsna Singh, Bharat Joshi, Rubina Chongtham, Manu Agarwal, **Shailendra Goel**, Amar Kumar, A.K. Singh and Arun Jagannath*. **2013**. Development of transgenic plants using lectin genes from onion and garlic for introduction of aphid resistance in the oilseed crop, *Brassica jun*cea (Indian mustard). Abstract: p 243 (*: Corresponding Author). **International Conference on Plant Biotechnology, Molecular Medicine and Human Health and 7th Annual Convention of ABAP**, October 18-20, 2013 University of Delhi South Campus, New Delhi – 110021.
49. Vandna Patial, T.V. Murali, Arun Jagannath, **Shailendra Goel**, Manu Agarwal and Amar Kumar*. **2013**. Genetic transformation and improvement of oil quality in Safflower (*Carthamus tinctorius*). Abstract: p 175. **International Conference on Plant Biotechnology, Molecular Medicine and Human Health and 7th Annual Convention of ABAP**, October 18-20, 2013 University of Delhi South Campus, New Delhi – 110021.
50. Ankur R. Bhardwaj, Rohit Nandan Shukla, Kiran Bankar, Arun Jagannath, **Shailendra**

Goel, Surekha Katiyar-Agarwal, Amar Kumar and Manu Agarwal. **2013**. Transcriptome profiling and identification of regulatory genes under high temperature stress in the oilseed crop, *Brassica juncea* (Indian mustard). Abstract: p29. **International Conference on Plant Biotechnology, Molecular Medicine and Human Health and 7th Annual Convention of ABAP**, October 18-20, 2013 University of Delhi South Campus, New Delhi – 110021.

51. H. Dinesh Singh, Gopal Joshi, Ankur R. Bhardwaj, Manu Agarwal, Surekha Katiyar-Agarwal, Arun Jagannath, Amar Kumar, Peggy Ozias-Akins, Wayne W. Hanna and **Shailendra Goel**. **2013**. Comparative small RNA analysis at different developmental stages of embryo sac in sexual and apomictic addition lines of *Pennisetum glaucum*. Abstract: p150. **International Conference on Plant Biotechnology, Molecular Medicine and Human Health and 7th Annual Convention of ABAP**, October 18-20, 2013 University of Delhi South Campus, New Delhi – 110021.
52. Somya Sinha, Vivek Kumar Raxwal, Arun Jagannath, Amar Kumar, **Shailendra Goel** and Manu Agarwal. **2013**. Synthetic microRNA mediated silencing of negative regulators to enhance frost tolerance in *Brassica juncea*. Abstract: p256. **International Conference on Plant Biotechnology, Molecular Medicine and Human Health and 7th Annual Convention of ABAP**, October 18-20, 2013 University of Delhi South Campus, New Delhi – 110021.
53. Vivek Kumar Raxwal, Sourav Ghosh, Somya Sinha, Rajsekhara R. Reddy, Surekha Katiyar-Agarwal, **Shailendra Goel**, Arun Jagannath, Amar Kumar, Vinod Scaria and Manu Agarwal. **2013**. Ultra high resolution mapping of HSF A5 binding reveals new insights into HSR regulation. Abstract: p267. **International Conference on Plant Biotechnology, Molecular Medicine and Human Health and 7th Annual Convention of ABAP**, October 18-20, 2013 University of Delhi South Campus, New Delhi – 110021.
54. Heisnam D. Singh, Gopal Joshi, Ankur R. Bhardwaj , Surekha Katiyar-Agarwal , Manu Agarwal , Arun Jagannath, Peggy Ozias-Akins ,Wayne W. Hanna, **Shailendra Goel**. 2012. Profiling of smRNAs unique to apomictic addition lines in *Pennisetum glaucum*. International Plant and Animal Genome Conference XX, 14-18 January, San Diego, CA, USA.
55. Akiyama Y, **Goel S**, Conner JA, Hanna WW, Yamada-Akiyama H, Ozias-Akins P (2012) The evolution of the apospory-specific genomic region (ASGR) - carrier chromosome in *Pennisetum*. Breeding Science 14 Ex. issue 1, P.258. in Utsunomiya, Japan (Poster)
56. Mipeshwaree Devi Asem, **Shailendra Goel** and Arvind K. Misra. 2011. Generation of silver stained TE-AFLP markers and assessment of primer combinations in tea for efficient fingerprinting analysis. International Conference on New Horizons in Biotechnology (NHBT-2011), NIIST, Trivandrum, November 21-24.
57. S. Bali, S. N. Raina , V. Bhat, **S. Goel**, R. K. Aggarwal**.** 2011**.** Isolation of microsatellites from tea (*Camellia sinensis* L.) kuntze using enrichment protocol. 11th ADNAT conference, CCMB, Hyderabad, India
58. Kamal Das, T. H. Dar, S. Bali, G. Joshi, R. Tandon and **S. Goel**. 2011. Isolation of sex specific DNA marker by Representational Difference Analysis (RDA). National conference on seabuckthorn, NCBST, IARI, Delhi, India
59. Tanvir H. Dar, **S. Goel**, S.N. Raina 2011. Genomic changes in synthetic autotetraploid in *Phlox drummondii* Hook. 11th ADNAT conference, CCMB, Hyderabad, India
60. Ozias-Akins P., J.A. Conner, **S. Goel**, Y. Akiyama , M.M. Cordonnier-Pratt , C. Liang , L. H. Pratt, W. W. Hanna 2005. Physical and functional characteristics of the genomic region associated with apomixis in *Pennisetum*. Plant and Animal Genome XIII Conference, San Diego, California, USA.

61. Raina S.N., **S. Goel**. 2004. Qualitative and Quantitative Monitoring of Gene expression patterns among micro propagated plants of tea Clones by differential screening of randomly amplified cDNAs using RAPD Primers. World Congress on In Vitro Biology **(**Society for in vitro biology). San Francisco, California, USA
62. Conner J.A., **S. Goel**, G. Gunawan, M.M. Cordonnier-Pratt, C. Liang, W. Haiming, L Pratt, J.E. Mullet, W.W. Hanna and P. Ozias-Akins 2004. Aligning physical and functional maps of a genomic region spanning the apomixis locus by exploiting model cereal genomics. Plant Biology conference, Orlando, Florida, USA
63. **Goel S**., J.A. Conner, Y. Akiyama, W.W. Hanna, and P. Ozias-Akins. 2004. Integrating genetic and physical maps: an approach to define the size of apospory specific genomic region in *Pennisitum* and *Cenchrus*. Plant and Animal Genome XII Conference, San Diego, California, USA.
64. Ozias-Akins P., **S. Goel**, A. Yukio, G. Gualtieri, J.A. Conner, J.E. Mullet, W.W. Hanna. 2003. Characterization of the genomic region transmitting apomixis in *Pennisetum* and *Cenchrus*. Plant and Animal Genome XI Conference, San Diego, California, USA.
65. Ozias-Akins P., W.W. Hanna, Z. Chen, J.A. Conner, **S. Goel**, Y. Akiyama. 2002. Molecular cytogenetic characterization of Apomictic Introgression lines of Millet. ASA-CSSA-SSSA Annual Meetings.
66. **Goel S**., J.A. Conner, Y. Akiyama, W.W. Hanna, and Ozias-Akins P 2002. Physical localization of the apospory specific genomic region in *Pennisetum squamulatum* and *Cenchrus ciliaris*. (Poster) Plant and Animal Genome X Conference, San Diego, California, USA.
67. Ozias-Akins P., J.A. Conner, **S. Goel**, Z. Chen, Y. Akiyama and W.W. Hanna.2002. Architecture of the apomixes locus in *Pennisitum/Cenchrus*. (Abstract) Plant and Animal Genome X Conference, San Diego, California, USA.
68. Ozias-Akins P., D. Roche, J.A. Conner, Z. Chen, **S. Goel** and W.W. Hanna 2001. (Abstract) Comparative physical mapping of the apospory locus in two grass species. International Apomixes Conference, Italy.
69. Ozias-Akins P, D. Roche, J.A. Conner, Z. Chen, **S. Goel** and W.W. Hanna 2001. Apomixes in *Pennisetum*. (Abstract) Plant and Animal Genome IX Conference, San Diego, California, USA.
70. **Goel S** and S.N. Raina 1999. Nucleotide sequences of 18S-25S spacer regions: A valuable source of evidence of molecular evolution. (Abstract) (Lead lecture) National Seminar on Plant Genetic Diversity: Evaluation and Conservation, Chandigarh, India.

Invited Lecture

71. **Goel S.** and **I. Siddiqi.** Apomixis: Current Status and Future Prospects. International Dialogue on Designer Rice for Future: Perception and Prospects. July 9-10, 2012, organiser: Society for advancement of rice research. ICRISAT, Patancheru, AP, India.
72. Ram Krishna, A. Kumar, A. Jagannath, M. Agarwal and S. Goel. Designer biodiesel in *Jatropha curcas*. October 12-13, 2014. Jatropha Updates, Organiser: teri, India Habitat Centre, Delhi, India.
73. **Goel S**, Priyanka Mohpatra, Sapinder Bali and Dinesh Singh. Deciphering the control of apomixis in *Pennisteum*. XXIII International Grassland Congress November 20-24, 2015, Delhi NCR, India. (Key Note Speaker).

Other publications (Edited works, Book reviews, Festschrift volumes, etc.)
Nil

Patents
Nil

Conference Organization/ Presentations (in the last three years)

List against each head(If applicable)

1. *Organization of a Conference : nil*
2. *Participation as Paper/Poster Presenter : 7*

Research Projects (Major Grants/Research Collaboration)

1. **Project Coordinator in DST-PURSE grant on "Genetic and Genomic approaches for improvement of the oilseed crop, *Carthamus tinctorius* (Safflower)". (Completed September 2013)**
2. **PI in DRDO funded project "Towards the Biodiesel in *Jatropha curcas*" (completed on June 2011)**
3. **PI in DBT funded project "Profiling of small RNAs unique to Apomictic addition lines in *Pennisetum glaucum* through Subtractive small RNA library" (Completed on Feb 2014)**
4. **Co-PI DBT funded project "Molecular markers and descriptor development in Tea" (Completed Mar 2009)**
5. **PI in DBT funded project "Isolation of sex linked genes and gender specific markers in *Hippophae rhamnoids"* (Completed on Dec 2012)**
6. **PI in UGC funded project "Improvement of *Jatropha curcas* biodiesel stability through transgenic approach" (On going)**
7. **PI in DBT funded project "Whole genome and transcriptome changes as a consequence of allo and auto polyploidy in *Vigna* L."**
8. **PI in DBT funded project "Whole genome and transcriptome changes as a consequence of allo and auto polyploidy in *Vigna* L.: Phase II" (Ongoing)**

Awards and Distinctions

1. University Grant Commission (India) National Research Fellowship holder 1993-1998
2. GATE (conducted by India Institute of Technology or IIT, India) Qualified (12^{th} National Rank) 1993
3. Visiting Research Fellowship, Kihara Institute for Biological Research, Yokohama City University, Japan

Association With Professional Bodies

1. *Editing*
2. *Reviewing*

Projests: DBT (Department of Biotechnology), Govt of India.
DST (Department of Science), Govt of India.
BARD - Binational Agricultural Research and Development Fund US-Israel

Journals: Plant Molecular Biology Reports (International society of plant molecular biologist/ ISPMB)

Journal of Horticulture and Forestry (Academic Journals)
Plant Cell Reports (Springer)
Iranian Journal of Biotechnology
Indian Journal of Bitechnology
BMC Genetics
BMC Genomics
BMC Research Note
Euphytica
Comparative Cytogenetics
Journal of Biotechnology
Plant Molecular Biology Reports
The Plant Genome
PLOS One
Annals of Botany
Journal of Genetics
Physiology and Molecular Biology of Plants

3. *Advisory*
4. *Committees and Boards*

VC Nominee DRC (Departmental Research Council), Department of Microbiology, University of Delhi.
Member, BOS (Board of studies), NIPGR (National Institute for Plant Genome Research), Delhi
Member, National Tea Research Foundation (NTRF), Tea Board, Calcutta
Member, BOS (Board of studies), Jamia Millia Islamia, Delhi

5. *Memberships*

- **Life Member, International Society of Plant Morphologists, Department of Botany, University of Delhi, Delhi – 110007.**
- **Life Member, ADNAT (Association for the promotion of DNA finger printing and associated DNA technologies), Hyderabad.**
- **Life Member, Society for Translational Research**
- **Elected Member, The Linnean Society of London**
- **Member AAAS) American Association for the Advancement of Sciences), USA**

6. *Office Bearer*

Executive council Member, ADNAT (association for the promotion of DNA fingerprinting and other DNA technologies)

Other Activities

Two summer trainees for 2012-2013
One trainee for 2013-2014
One trainee for 2015-2016
One Trainee for 2016-2017
Two Summer Trainees 2018