

BIODATA
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Teaching Positions

1. Assistant Professor: July 17, 2003 – July 16, 2007
2. Senior Assistant Professor (Stage II): July 17, 2007 – July 16, 2012
3. Senior Assistant Professor (Stage III): July 17, 2012 to July 16, 2015
4. Associate Professor (Stage IV): July 17, 2015 to July 16, 2018
5. Professor (Satge V): July 17, 2018 till date

Administrative Positions

- I. Proctor in the University of Kashmir: 2008 – June 2013
- II. Deputy Chief Proctor: July 2013 to July 2019
- III. Director South Campus, University of Kashmir: March 4, 2020 – December 19, 2021.
- IV. Director North Campus, University of Kashmir: 1st September 2020 – 13th February 2021.
- V. Provost (Chief Warden), University of Kashmir: 15th July, 2022 – 3rd January 2025
- VI. Head, Department of Botany, University of Kashmir: 15th November 2024 – Till date

Academics

- Doctor of Philosophy in Botany (2000), Aligarh Muslim University, Aligarh, UP (India)
- M. Sc. in Botany (1996), Aligarh Muslim University, Aligarh, UP (India)
- B. Sc. (1992 -93), University of Kashmir

Area of Specialization

Cytogenetics, Plant Breeding and Molecular Biology

Teaching Experience: 22 Years

- Cytogenetics and Genetics
- Genetic Engineering of Plants and Microbes
- Crop Genetics and Molecular Breeding
- Cell & Molecular Biology

Research Experience: 22 Years (excluding Ph.D. period)

- Papers published: **96**
- Book published = **01**
- Book Chapters: **13**
- Projects: **Sanctioned =06** (Completed = **05**; **On-going=01**)
- Total Impact Factor: **76.78**, Average Impact factor: **1.85**.
- Citation = **1661**, H-index = **23**, i10 index = **47**
- Research Interest score (RG): **1272**
- Number of M.Phil, students awarded: **08**
- Number of Ph.D. students awarded: **12**
- Number of Ph.D. students on-going: **06**
- National/Regional conferences: **45**
- International conferences: **03**

Current Research Activities

- Genetic diversity and improvement of Apple (*Malus domestica* Borkh) in Kashmir under DBT sponsored project.
- Genetic improvement of buckwheat (*Fagopyrum* spp.) for its large scale cultivation and domestication.
- Reproductive Biology of some medicinal plants in Kashmir.
- Genetic diversity studies in genus *Amaranthus* and genus *Rubus* of Kashmir Himalaya.

Research Collaborations

- Professor Ramesh Aggarwal, Centre for Cellular and Molecular Biology (CCMB) Hyderabad
- Professor Manoj K. Dhar, School of Biotechnology, University of Jammu
- Professor Krishan Kumar, Department of Fruit Breeding, Dr. Y. S. Parmar University of Horticulture and Forestry, Solan
- Dr. I. D. Bhat - GB Pant Institute of Himalayan Environment & Development, Almora
- Dr. Faizan Ahmad – Scientist KVK, Kargil, Division of Pomology, SKUAST-K
- Dr. Reyazul Rouf Mir, Division of Plant Breeding and Genetics, Wadura, SKUAST-K
- Dr. Mehraj-u-Din Shah, Division of Plant Pathology, SKUAST-K
- Dr. Sajad Ahmad Zargar, Division of Plant Biotechnology, SKUAST-K

Fellowships / Awards

- Awarded as **Distinguished Scientist** for contribution and achievements in the field of Cytogenetics by the Centre for Advanced Research and Design, Venus Internal Foundation, Chennai on 3.12.2016.
- Awarded junior research fellowship during Ph. D programme at the Department of Botany, Aligarh Muslim University, Aligarh
- Awarded grade excellent in teaching by the IQAC, University of Kashmir

Research Projects Submitted / Sanctioned/Completed

S. No.	Title of Project	Funding Agency	Amount (Lakhs)	Date of sanction and Duration
1.	Creating a Genomics Platform for Apple Research in India-Phase-I	DBT, Govt. of India	74.20	04/06/2010 (05 years)
2.	Induction of variability for genetic improvement of Kashmir Saffron	DBT, Govt. of India	71.14	16/01/2013 (03 years)
3.	Characterization and conservation of apricot (<i>Prunus armeniaca</i> L.) germplasm in Jammu and Kashmir State	DBT, Govt. of India	50.02	11/02/2015 (3+2 years)
4.	Creating a Genomics Platform for Apple Research in India-Phase-II	DBT, Govt. of India	29.40	11/12/2017 (03 years)
5.	Studies on identifying suitable <i>Prunus</i> species for large scale cultivation in North Eastern States of India	IBSD-DBT, Govt. of India	21.60	27/07/2017 (02 years)
6.	Development of genomic resources, elite lines and germplasm conservation on high density rootstocks in apple	DBT, Govt. of India	44.74	31.7.2024

Major Research Contributions

- i. Establishment of Apple Germplasm Repository of Kashmir comprising of more than 150 cultivars at Zakura Campus Kashmir University.
- ii. Development of first F1 mapping population of apple in J&K comprising of 240 F1 plants from a cross between two contrasting parents viz. Delicious x Mahraji cultivars.
- iii. Standardized the induction of hexaploidy in saffron through colchicine treatment. This technique will help stabilizing sexuality in saffron and we may expect a seed based population in this crop plant.
- iv. Generated passport data information of around 150 apple and 40 apricot cultivars of Kashmir.

List of Publications

1. Anis, M. and **Wani, A.A.** (1997). Caffeine Induced Morpho-cytological Variability in Fenugreek, *Trigonella foenum-graecum* L. Cytologia 62: 343-349. ISSN 114545, **IF = 0.47.**
2. Anis, M., Shiran, B. and **Wani, A.A.** (1998). Genotoxic Effect of Aldrin and Malathion on the Root Meristem of *Vicia faba*. J.Cytol.Genet. 33: 35-42. ISSN 0253-7605.
3. Anis, M., **Wani, A.A.** and Khursheed, T. (1999). Cytotoxic Effect of Leaf Extract of Ipomoea carnea on Root Tip cells of *Trigonella foenum-graecum* L. J.Cytol. Genet. 34: 111-114. ISSN 0253-7605.
4. **Wani, A.A.** and Anis, M. (2000). Induced Apinnate Mutant in Chickpea (*Cicer arietinum* L). J.Nuclear Agric.Biol. 29:114-116. ISSN 0379-5489.
5. **Wani, A.A.** and Anis, M. (2001). Gamma Rays Induced Bold Seeded High Yielding Mutant in Chickpea (*Cicer arietinum* L). Mutation Breeding Newsletter (FAO/ IAEA VIENNA). No.45: 20-21. ISSN 1011-260X.
6. Anis, M. and **Wani, A.A.** (2001). Colchicine Induced Autotetraploidy in *Impatiens balsamina* L. J. Cytol.Genet. 2: 77-79. ISSN 0253-7605.
7. **Wani, A.A.** and Anis, M.(2001). Mutagenic Sensitivity of Chickpea (*Cicer arietinum* L). for Physical and Chemical Mutagens. J. Nuclear. Agric. Biol. 30: 195-200. ISSN 0379-5489.
8. **Wani, A.A.** and Anis, M. (2002). Effect of Physical and Chemical Mutagens on some Biological parameters in Chickpea (*Cicer arietinum* L.). SKUAST J. Res. 4: 19-22. ISSN 0972-7469.
9. **Wani, A.A.** and Anis, M. (2004). Spectrum and Frequency of Chlorophyll Mutations Induced by Gamma Rays and EMS in *Cicer arietinum* L. J.Cytol.Genet.5: 143-147. ISSN 0253-7605.
10. **Wani, A.A.** and Anis, M. (2004). Effect of Physical and chemical mutagens on various quantitative traits in Chickpea (*Cicer arietinum* L.). J. Nuclear. Agric. Biol. 33(2): 114-118. ISSN 0379-5489.
11. **Wani, A.A.** and Anis, M.(2008). Gamma Rays and EMS Induced Bold Seeded and High Yielding Mutants in *Cicer arietinum* L. Turkish J.Biol.32: 161 - 166. ISSN 1300-0152. **IF=1.20**
12. **Wani A.A.** (2009). Mutagenic Effectiveness and Efficiency of Gamma Rays, Ethyl Methane Sulphonate and Their Combination treatments in chickpea (*Cicer arietinum* L.). Asian J.Plant Sci. 8(4): 318 - 321. ISSN 1682 – 3974.
13. Shabir P. A., Nawchoo I. A. and **Wani A. A.** (2010). Development of vegetative and sexual multiplication protocol for commercialization of *Inula racemosa* Hook. f. – a critically endangered medicinal plant of N.W. Himalaya. Nature and Science 8 (10): 246 – 252. ISSN 1545-0740.
14. **Wani A. A.** (2011). Spectrum and Frequency of Macromutations Induced in Chickpea (*Cicer arietinum* L.). Turk. J. Biol. 35: 221 – 231. **ISSN 1300-0152. IF=1.20** doi:10.3906/biy-0902-20.

15. Shahzada A. and **Wani A. A.** (2011). Phenological episodes of *Myriophyllum spicatum* (Haloragaceae); a highly invasive species in Kashmir Himalayan aquatic ecosystems. *Nature and Science* 9 (05): 42 – 45. ISSN 1545-0740.
16. Shahzada A., **Wani A. A.**, Ganai A. H. and Khuroo A. A. (2011). On correct identification, range expansion and management implications of *Myriophyllum aquaticum* in Kashmir Himalaya, India. *Checklist* 7(3): 299 – 302. ISSN 1809-127X.
17. **Wani A. A.** (2011). Induced polygenic variability for quantitative traits in chickpea (*Cicer arietinum* L.) var. Pusa-372. *Comunicata Scientiae* 2(2): 100-106, 2011. ISSN 2176-9079.
18. Rather A. M., Nawchoo I. A., **Wani A. A.** and Ganai A. H. (2011). Effect of habitat diversification and temperature on *Valeriana jatamansi*. *New York Science Journal* 4(12): 57 – 60. ISSN 1554-0200.
19. Shahzada Arshid and **Wani A. A.** (2011). *Myriophyllum*: Biopollutant or a bioresource. *Life Science Journal* 8(3): 370 – 372. ISSN 10978135.
20. Rather A. M., Nawchoo I. A., **Wani A. A.** and Ganie A. H. (2012). *Valeriana jatmansii*: a phenotypically variable plant species of Kashmir Himalaya. *Life Science Journal* 9(2): 644 – 647. ISSN 10978135.
21. Rather A. M., Nawchoo I. A., Ganie A. H., Singh H., Dutt B. and **Wani A. A.** (2012). Bioactive compounds and Medicinal Properties of *Valeriana jatmansii* Jones – a review. *Life Science Journal* 9(2): 952 – 955. ISSN 10978135.
22. Abid Mohiuddin Rather, Irshad Ahmad Nawchoo, **Aijaz Ahmad Wani**, Aijaz Hassan Ganie and Bilal Ahmad Tali (2011). A case study in *Valeriana jatmansii*: An important medicinal plant in Kashmir Himalaya. *Journal of Himalayan Eco. Sustain. Dev.* 6, 21 – 26. ISSN: 0973-7502.
23. Arshid S. and **Wani A.A.** (2012) Pollen biology and stigma receptivity in *Myriophyllum spicatum* L. an invasive species in Kashmir Himalayan aquatic ecosystems. *International Journal of Advanced Life Sciences* 3: 13-20. ISSN: 2277-758X.
24. Lone Z.A, Khan S. S., Khan F., Shah F. and **Wani A. A.** 2012. Studies on the Ethnobotanical and Ethnomedicinal Uses of Plants of the Family Euphorbiaceae of Raisen District (MP), India. *Science Secure Journal of Biotechnology (SSJBt)* 1(2): 43-46. ISSN: 2319 – 9083.
25. Lone Z. A, Khan S. S., **Wani A. A.** and Khan F. 2013. Ethnomedicinal plants used for different ailments by the tribals of district Raisen (M.P.). India. *Journal of Medicinal Plants Research* 7(7): 298-303. DOI:10.5897/JMPR011.1669, ISSN 1996-0875.
26. **Wani A. A.** and Arshid S. (2013). Assessment of seed quality parameters and effect of physical and chemical treatments on seed germination of *Myriophyllum Spicatum* L. *Comunicata Scientiae* 4(1): 01-11. ISSN 2176-9079.
27. Shagufta Bashir, **Aijaz A. Wani** and Irshad A. Nawchoo (2013). Studies on mutagenic effectiveness and efficiency in Fenugreek (*Trigonella foenum-graecum* L.). *African Journal of Biotechnology* 12(18): 2437 – 2440. ISSN: 1684-5315, DOI: 10.5897/AJB2013.12232.
28. Shagufta Bashir, **Aijaz A. Wani** and Irshad A. Nawchoo (2013). Chromosomal damage induced by gamma rays, ethyl methyl sulphonate and sodium azide in *Trigonella foenum-graecum* L. *Chromosome Botany* 8: 1-6. eISSN: 1881-8285 / Print ISSN: 1881-5936.

29. Shagufta Bashir, **Aijaz A. Wani** and Irshad A. Nawchoo (2013). Mutagenic Sensitivity of Gamma Rays, EMS and Sodium Azide in *Trigonella foenum-graecum* L. Science Research Reporter 3(1): 20 – 26. ISSN: 2249 – 2321 / 2249-7846 (Online).
30. Arshid S. and **Wani A.A.** (2013). Phenotypic plasticity, clonal architecture and biomass partitioning in *Myriophyllum Spicatum* L. across different lentic and lotic ecosystems of Kashmir. African Journal of Biotechnology 12(19): 2618 – 2623. ISSN: 1684-5315, DOI: 10.5897/AJB2013.12062.
31. Shabir P. A., Nawchoo I. A. and **Wani A. A.** (2013). Floral phenology, secondary pollen presentation and pollination mechanism in *Inula racemosa* (Angiosperms: Asteraceae). Journal of Threatened Taxa 5(10): 4498 – 4503. ISSN: 0974 – 7907 / 0974 – 7893.
32. Shabir P. A., Nawchoo I. A. and **Wani A. A.** (2013). Among and within population variation in growth dynamics and floral sex ratios in inula racemosa; a critically endangered medicinal herb of N. W. Himalayas. International Journal of Biodiversity and Conservation. 5(12): 796 – 802. ISSN: 2141 - 243X, DOI: 10.5897/IJBC2013.0621.
33. Shabir P. A., Nawchoo I. A. and **Wani A. A.** (2013). Chromosome stickiness and related meiotic irregularities in *Inula racemosa* – a critically endangered medicinal herb of North Western Himalayas. EurAsian Journal of BioSciences 7: 41 – 46. <http://dx.doi.org/10.5053/ejobios.2013.7.0.5>. e-ISSN: 1307-9867.
34. Shabir P. A., Nawchoo I. A. and **Wani A. A.** (2013). From the sprouting to the senescence: an analysis of developmental chronology in the alpine herb *Inula royleana* (Asteraceae). Brazilian Journal of Botany 36(4): 285-290. ISSN 0100-8404 / DOI 10.1007/s40415-013-0036-z.
35. **Wani A A** and Anis M (2013). Spectrum and frequency of meiotic aberrations induced by gamma rays and EMS in *Cicer arietinum* L. Chromosome Science 16: 11-16, 2013. ISSN-1344-1051.
36. Aslam N, **Wani A A**, Nawchoo I A and Bhat M A (2014). Distribution and Medicinal importance of Peganum harmala- A review. International Journal of Advanced Research 2 (2): 751-755. ISSN 2320-5407.
37. Jahangir A D, Arshid S, Kudesia R, Srivastava M K and **Wani A A** (2014). Biochemical and cytological analysis of five cultivars of *Cicer* (chickpea). African Journal of Biotechnology 13: 1281-1286. DOI: 10.5897/AJB2013.12952. ISSN: 1684-5315.
38. Rather A. M., Nawchoo I. A., Ganie A. H., **Wani A. A.** (2014). Inflorescence architecture and staminal movement as contrivance measures in reproductive assurance and survival of *Valeriana jatamansi* Jones (= *Valeriana wallichii* DC). Current Science, 107 (4): 568 – 570. (National). ISSN, 0011-3891. IF = 0.41
39. Jan S, **Wani A. A.**, Kamili A.N., Kashtwari M (2014). Distribution, chemical composition and medicinal importance of saffron (*Crocussativus* L.). African Journal of Plant Sciences. 8 (12): 537 - 545. ISSN: 1996-0824. IF: 0.57.
40. Aslam N, **Wani A. A.**, Nawchoo I. A., Aslam K and Ganai A. H. (2014). Reproductive biology of *Peganumharmala* L. (Nitrariaceae) – an important medicinal plant of Kashmir Himalaya. Journal of Medicinal and Aromatic Plant Sciences 36 (3-4): 108-116. ISSN: 0253-7125.
41. **Wani A. A.** and Anis M. (2014). Gamma Rays and EMS induced polygenic variability in *Cicer arietinum* L. Var. Pusa – 212. Journal of Phytology, 6: 26-32. ISSN: 2075-6240

42. Tali B. A., Ganie A. H., Nawchoo I. A. , **Wani A. A.**, Reshi Z. A. (2015). Assessment of threat status of selected endemic medicinal plants using IUCN regional guidelines: A case study from Kashmir Himalaya. *Journal for Nature Conservation* 23: 80-89. (IF=1.85). ISSN, 1617-1381.
43. Bhat T A, **Wani A A** (2015). Studies on Ethyl Methane Sulphonate induced desynapsis in *Vicia faba* L. *European Journal of Academic Essays* 2(1): 23 – 28. ISSN (online): 2183-1904 / ISSN (print): 2183 – 3818. (**International**).
44. Bhat T A, **Wani A A**, Gulfishan M (2015). Medicinal Plants Sector in Northern India: An Ethno-Medicinal Appraisal. *The Journal of Ethnobiology and Traditional Medicine* (Photon 124): 978 – 992. ISJN: 6642-3194.
45. Lone Z A, Lone Y, Khan S S, **Wani A A**, Reshi M I (2015). Hepatoprotective medicinal plants used by the Gond and Bhil tribals of District Raisen Madhya Pradesh, India. *Journal of Medicinal Plants Research* 9(12): 400 – 406. DOI: 10.5897/JMPR2015.5764. ISSN: 1996-0875.
46. Dar J. A., **Wani A. A.** and Dhar M. K. (2015). Morphological, biochemical and malemeiotic characterization of apple (*Malus x domestica* Borkh.) germplasm of Kashmir Valley. *Chromosome Botany* 10: 39 – 49. International Society of Chromosome Botany. ISSN: 1881-8285 (Online) 1881-5936 (Print).
47. Shabir P. A., Nawchoo I. A. **Wani A. A.** and Banday A. (2015). Pollen limitation and effects of local patch density on reproductive success in the alpine herb *Inularoyleana* (Asteraceae). *Plant Ecology* 216 (8)1073 – 1081. ISSN 1385-0237 / DOI 10.1007/s11258-015-0490-8. **IF=1.61**.
48. Shabir P. A., Nawchoo I. A. **Wani A. A.** and Bhat M. A., Hamid A and Rather A. A. (2015). Relative Contribution of Breeding System and Species Rarity to Genetic Differentiation in *Inula racemosa* Hook. f. (Asteraceae). *Russian Journal of Ecology* 46 (6) 537–546. (IF=0.3). ISSN 1067_4136.
49. Kuchy A. H., **Wani A. A.**, Kamili A. N. and Bhat M. S. (2015). Pattern of the sensitivity of *Allium cepa* root meristem cells to Endosri, Nuvan and Kvistin pesticides. *International Journal of Plant, Animal and Environmental Sciences (IJPAES)* 5(4): 218 – 226. ISSN-2231-4490.
50. Aslam N, **Wani A. A.**, Nawchoo I. A., Aslam K and Bhat M. A. (2015). A comparative study on phenological events in two populations of *Peganum harmala*. *New York Science Journal*, 8(4):56 – 59. ISSN: 1554-0200 (print); 2375-723X (online).
51. Kuchy A. H., **Wani A. A.** & Kamili A. N. (2016). Cytogenetic effects of three commercially formulated pesticides on somatic and germ cells of *Allium cepa*. *Environmental Science and Pollution Research*, 23(7): 6895-6906. DOI 10.1007/s11356-015-5912-6. ISSN 0944-1344. (IF = 2.83).
52. **Aijaz A. Wani**, Showkat A. Zargar, Aubid H. Malik, Mahpara Kashtwari, Muslima Nazir, Anzar A. Khuroo, Faizan Ahmad, Tanveer A. Dar (2017). Assessment of variability in morphological characters of apricot germplasm of Kashmir, India. *Scientia Horticulturae* 225 (2017) 630–637. **I.F. 1.62.** ISSN 0304-4238. <https://doi.org/10.1016/j.scienta.2017.07.029>
53. Sajad Majeed Zargar, Preeti Nagar, Rupesh Deshmukh, Muslima Nazir, **Aijaz Ahmad Wani**, Khalid Zaffar Masoodi, Ganesh Kumar Agrawal, Randeep Rakwale (2017).

- Aquaporins as potential drought tolerance inducing proteins: Toward instigating stress tolerance. *Journal of Proteomics* 169:233-238. **I.F. 3.914.** ISSN: 1874-3919. <https://doi.org/10.1016/j.jprot.2017.04.010>.
54. Reetika Mahajan, Sajad Majeed Zargar, R. K. Salgotra, Ravinder Singh, **Aijaz Ahmad Wani**, Muslima Nazir, Parvaze A. Sofi (2017). Linkage disequilibrium based association mapping of micronutrients in common bean (*Phaseolus vulgaris* L.): a collection of Jammu & Kashmir, India. *3 Biotech* (2017) 7:295. DOI 10.1007/s13205-017-0928-x. ISSN: 2190-572X (Print) 2190-5738 (Online). **I.F. = 1.36.**
55. Peerzada Arshid Shabir, Irshad A. Nawchoo, and **Aijaz A. Wani** (2017). A Performance Appraisal of Size Dependent Reproduction and Reproductive Allocation: a Case Study of Two *Inula* Species from Kashmir Himalaya. *Russian Journal of Ecology*, 48 (5): 440–448. 2017. ISSN: 1067-4136 (Print) 1608-3334 (Online). **I.F. = 0.456.**
56. Rameez Nazir Rather, **Aijaz A Wani**, Mahpara Kashtwari, Zahoor A Beigh (2018). Phenological shifts due to climate change and the associated conservation threats. *Climate Change* 4(13): 80-86. ISSN: 2394-8558. (www.indianjournals.com).
57. Yash P. Khajuria, Sanjana Kaul, **Aijaz A. Wani**, Manoj K. Dhar (2018). Genetics of disease resistance in apple against *Venturiainaequalis* (Wint.) Cke. *Tree Genetics & Genomes* 14:16. ISSN: 1614-2942 (Print) 1614-2950 (Online). (Springer). **IF = 1.624.** <https://doi.org/10.1007/s11295-018-1226-4>.
58. Rameez Nazir Rather, Zahid Hussain Najjar, **Aijaz A. Wani**, Mehraj-ul-din Shah (2018). Selection of Resistance to *Venturiainaequalis* in Apple: Using Phenotypic and Genotypic Methods in Combination. *JOJ Horticulture & Arboriculture* 1(1): 001-003.
59. Mahpara Kashtwari, **Aijaz A. Wani**, Manoj K. Dhar, Sabbi Jan, Azra N. Kamili (2018). Development of an efficient in vitro mutagenesis protocol for genetic improvement of saffron (*Crocus sativus* L.). *Physiol Mol Biol Plants* 24(5): 951-962. Springer **IF = 1.15.** <https://doi.org/10.1007/s12298-018-0576-6>. ISSN: 0971-5894 (print), 0974-30 (online).
60. Masrat Kareem, Bushra Nabi, Mahpara Kashtwari, Aijaz A. Wani, Manoj K. Dhar (2018). Preliminary report on development of proper stigmas and stigma-like structures in saffron under in vitro conditions. *Proc. Natl. Acad. Sci., India, Sect. B Biol. Sci.* <https://doi.org/10.1007/s40011-018-1037-2>. ISSN: 0369-8211 (print)/2250-1746 (online). **IF=0.396.**
61. Asma Hamid Mir, Humara Fayaz, Mohd. Ashraf Bhat, **Aijaz A. Wani**, Parvaze A. Sofi and Reyazul Rouf Mir (2018). Correlation and principal component analysis for study of yield improvement in chickpea genotypes in Kashmir Valley in North India. *International Journal of Current Agricultural Sciences*. 8: 307-310. ISSN: 2277-1026.
62. Mahpara Kashtwari, **Aijaz A. Wani** and Rameez Nazir Rather (2019). TILLING: an alternative path for crop improvement. *Journal of crop improvement* 33(1): 83-109. **IF=1.3.** ISSN: 1542-7528 (Print) 1542-7536 (Online) <https://doi.org/10.1080/15427528.2018.1544954>.
63. Jahangir Ahmad Dar, **Aijaz A. Wani**, Manoj K. Dhar (2019). Assessment of the Genetic Diversity of Apple (*Malus × domestica* Borkh.) Cultivars Grown in the Kashmir Valley using Microsatellite Markers. *Journal of King Saud University – Science-* 31(2): 194 – 201. **IF= 2.835.** ISSN: 1018-3647. DOI: 10.1016/j.jksus.2017.12.013.

64. Jahangir A. Dar, **Aijaz A. Wani**, Maroof Ahmad, Ramiz Nazir, Sajad M. Zargar (2019). Peel colour in apple (*Malus domestica* Borkh.): An economic quality parameter in fruit market. *Scientia Horticulturae* 244 (2019) 50–60. ISSN: 0304-4238. <https://doi.org/10.1016/j.scienta.2018.09.029>. **IF = 1.76**.
65. Rameez Nazir Rather, **Aijaz A. Wani**, Mehraj-ul-din Shah (2019). Enhancing the efficiency of detached leaf method for resistance breeding in apple by considering leaf emergence phenology. *Current Science* 116 (4): 528 – 529. ISSN: 0011–3891. **IF = 0.90**.
66. Bilal A Tali, Aijaz Hassan Ganie, Irshad A Nawchoo, **Aijaz A Wani** and Aabid M Rather (2019). Threat status of *Ajuga bracteosa* Wall ex Benth. an important medicinal plant of Kashmir Himalaya. *Life Science Journal*. 16(1): 79 – 84. ISSN: 1097-8135. <http://www.lifesciencesite.com>. **IF= 0.165**.
67. Durdana Shah, Azra N. Kamili, **Aijaz A. Wani**, Rubiya Dar, Nazish Nazir, Sumira Tyuband Mohammad Yaseen Mir (2019). EMS induced point mutations in 18s rRNA gene of *hyoscyamus niger*L. An important medicinal plant of Kashmir Himalaya. *Pak. J. Bot.*, 51(3): 949 – 955. DOI: 10.30848/PJB2019-3(19). ISSN 0556-3321 (print), ISSN 2070-3368 (online). **IF=0.87**.
68. Humara Fayaz, Irshad Ahmad Rather, Aijaz A. Wani, Sandhya Tyagi, Renu Pandey and Reyazul Rouf Mir (2019). Characterization of chickpea gene pools for nutrient concentrations under agro-climatic conditions of North-Western Himalayas. *Plant Genetic Resources: Characterization and Utilization*; 17(5):464-467. doi:10.1017/S147926211900025X. **IF=1.08**. ISSN: 1479263X, 14792621.
69. Jahangir A. Dar, **Aijaz A. Wani**, Manoj K. Dhar (2020). Assessment of Apple (*malus × Domestica* Bark.) Germplasm of Kashmir Using RAPD Markers. *International Journal of Fruit Science* 20(3) 635-645. **IF= 1.359**. ISSN: 1553-8362 (Print) 1553-8621 (Online). DOI: <https://doi.org/10.1080/15538362.2019.1639583>.
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- 1. Wani A A, Dar J A, Bhat T A (2015).** *Malus × domestica* Borkh. from wild resources to present day cultivated apple. Photon eBooks p. 1 – 11. UBN: 015 – A94510112016. <https://sites.google.com/site/photonebooks/home>.
- 2. Mir R R, Choudhary N, Singh B, Khanday I A, Bawa V, Sofi P, Wani A, Kumari S, Jain S, Kumar A (2015).** Harnessing Genomics Through Phenomics. In: J. Kumar et al (eds), Phenomics in Crop Plants: Trends, Options and Limitations, p. 273 – 283. DOI 10.1007/978-81-322-2226-2_18, Springer India 2015. ISBN: 978-81-322-2226-2.
- 3. Muslima N., Roohi M., Showkat A. Z., Aijaz A. W., and Sajad M. Z. (2016).** Therapeutic Potential of Plant Genetic Resources and Traditional Knowledge: A Panoramic View of the Flora Indigenous to North West Himalayas. In: R.K. Salgotra, B.B. Gupta (eds.), *Plant Genetic Resources and Traditional Knowledge for Food Security*, DOI 10.1007/978-981-10-0060-7_15. © Springer Science+Business Media Singapore 2016.
- 4. Aijaz A. Wani (2016).** Scope and practical applications of induced mutagenesis for genetic improvement of crop plants. Photon ebooks. Photon eBooks, Edition 1: 1 – 39. UBN: 015-A94510112021.
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