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Field of Specialization : Genetics and Genomics



Name of Institute from where obtained M.Sc. degree:

Lucknow University

Name of Institute from where obtained Ph.D. degree:

CIMAP, Lucknow

Joining date in ICAR : 7/25/1994

Publications (Top 10 Publications with first or corresponding author only):

1. AK Singh, Anju Bajpai, S Rajan, SS Das, KK Mishra (2021) Modified BBCH codification and correlation of phenological characteristics with climatic variables in jamun (*Syzygium cuminii* Skeels). *Scientia Horticulturae*
<https://doi.org/10.1016/j.scienta.2021.110081>
2. Anju Bajpai, A.K. Singh and H. Ravishankar (2012) Reproductive Phenology, Flower biology and pollination in Jamun (*Syzygium cumini* L.)(In press) *Indian J. of Horticulture*. September-2012;. 69(3) : 416-419
3. Anju Bajpai, M Muthukumar, Awtar Singh, Vishal Nath And H Ravishankar (2016) Narrow genetic base of Indian litchi (*Litchi chinensis*) cultivars based on molecular markers *Indian Journal of Agricultural Sciences* 86(4): 448–55.
4. Anju Bajpai, M. Muthukumar., Israr Ahmad, K.V. Ravishankar, V.A. Parthasarthy, Bhuwon Sthapit, Ramanatha Rao, J.P.Verma and S. Rajan (2016) Molecular and morphological diversity in locally grown non-commercial (heirloom) mango varieties of North India. *Journal of Environmental Biology* 37: 2, 221-228
5. Bajpai A., K. Khan, M. Muthukumar, S. Rajan and N.K. Singh (2018) Molecular Analysis of anthocyanin biosynthesis pathway *Genome* 61(3) :157-166
6. Bajpai, Anju and A.K. Singh (2006). Meiotic behavior of *Carica papaya* L.; Spontaneous chromosome instability and elimination in important cvs. in North Indian condition. *Cytologia*; 71(2): 131-136.
7. Iquebal, M. A , Jaiswal, S. Bajpai, A. et al., (2017). MiSNPDb: a web-based genomic resources of tropical ecology fruit mango (*Mangifera indica* L.) for phylogeography and varietal differentiation. *Scientific Reports*. 7: doi:10.1038/s41598-017-14998-2

8. Laxmi, Aisha Kamal, Vinay Kumar, M Muthukumar, Anju Bajpai (2021) Morphological indicators of salinity stress and their relation with osmolyte associated redox regulation in mango cultivars Journal of Plant Biochemistry and Biotechnology 1-12.

9. M Kamle, P Kumar, A Bajpai, S Kalim and R Chandra, 2013. Assessment of genetic fidelity of somatic embryogenesis regenerated guava (*Psidium guajava* L.) plants using DNA-based markers New Zealand Journal of Crop and Horticultural Science, 1-9

10. Y Bajpai, M Trivedi, M Muthukumar, A Bajpai (2021) Novel insights into biochemical and hormonal factors regulating floral transition in mango (*Mangifera indica* L.)

<http://nopr.niscair.res.in/handle/123456789/58537>

Patent / Technologies / Varieties / Methodologies / System etc.:

2 CISH Jamwant, Methodology: In vitro selection

No. of Students Guided (M.Sc.) : 15

No. of Students Guided (Ph.D.) : 2

Awards / Recognitions / Fellowship:

Fellowship: 1. CHAI (2012), and

2. SERS (2021)