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**Field of Specialization** : Biotechnology



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

GJUST, Hissar

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

IARI, New Delhi

**Joining date in ICAR** : 2/26/2008

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

1. Damodaran T, Rajan S, Muthukumar M, Gopal R, Kavita Y, Sandeep K, Israr Ahmad, Nidhi K, Mishra V K, Jha S K (2020). Biological Management of Banana Fusarium Wilt caused by *Fusarium oxysporum* f. sp. *cubense* Tropical Race 4 using Antagonistic fungal isolate CSR-T-3 (*Trichoderma reesei*). *Frontiers in Microbiology*.
2. Damodaran T., S. Rajan, V.K. Mishra, S.K. Jha, I. Ahmad and R. Gopal (2019). First report of Fusarium wilt in banana caused by *Fusarium oxysporum* f. sp. *cubense* Tropical race 4 in India. *Plant Disease*, 103 (5):1022-1026. doi: 10.1094/PDIS-07-18-1263-PDN.
3. Israr Ahmad, Muthukumar M., Maurya P.K. and S.Rajan (2020) Modulation of ERF and ethylene biosynthetic genes during fruit development and jelly seed in mango *Res. J. Biotech* Vol. 15 (12) 14-17.
4. Israr Ahmad, Muthukumar M. and Rajan S. (2021) In-silico mining and characterisation of TIFY genes in mango. *Res. J. Biotech.*, 16(2) 24-28.
5. R.A. Ram, Govind Kumar, Shailendra Kumar Maurya, S. Rajan and Israr Ahmad (2020) Plant growth promoting, biochemical and antifungal properties of microbes isolated from cow dung. *Progressive Horticulture*, 52 (2):166-172.
6. Israr Ahmad, Muthukumar M, J. P. Verma, Anju Bajpai and S. Rajan (2019) Molecular fingerprints and genetic relatedness of traditional mango cultivars using SSR markers. *Indian J. Hort.* 76 (1): 1-7.
7. Khan, Rashid M., I. Ahmad, Keshav Kumar, H., Achal Singh and P. K.Shukla (2019). Infestation of root-knot nematode, *Meloidogyne enterolobii* in newly established/old orchards and nurseries in Madhya Pradesh, Rajasthan and Uttar Pradesh. *Annals of Plant Protection Sciences*, 27 (1):170-171.

8. Khan, Rashid M., I. Ahmad, Keshav Kumar, H., and Achal Singh (2019). Identification of *Meloidogyne enterolobii* infesting guava orchards and nurseries in different agro-climatic regions of the country using mitochondrial DNA based analysis and host status of certain commonly grown vegetable crops, *Annals of Plant Protection Sciences* 27 (2):282-284.
9. Ram Awadh Ram, Israr Ahmad and A. Kumar (2019) Isolation and characterization of PGPRs from organic preparations. *Journal of Eco-friendly Agriculture* 14 (2):18-22.
10. Damodaran T., Rajan S., Gopal Ram, Yadav Ashok, Yadav Kavita, . Shukla P. K, Muthukumar M., Kumari Nidhi, Ahmad Israr, Jha S. K., Nayak Deepak and Mishra V. K. (2019). Successful community-based management of banana wilt caused by *Fusarium oxysporum* f.sp. *cubense* Tropical race-4 through ICAR-FUSICONT. *Journal of Applied Horticulture*, 21(1)37-41.

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

1. ICAR-Fusicont
2. CISH Bio enhancer

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

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

**Awards / Recognitions / Fellowship:**