

**Name and Designation** : Dr. RAJAPPA J.J., Senior Scientist  
**Date of Birth** : 23.05.1980  
**Date of Joining ICAR** : 01.07.2013  
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**Educational Qualification** : M.Sc. (Biotechnology), Ph.D. (Plant Genetic Resources)  
**Discipline** : Economic Botany & Plant Genetic Resources



### Service Particulars

- Scientist (September 2013 - January 2021, ICAR RC for NEH Region, Umiam)
- Senior Scientist (February 2021 - till date, ICAR-NIRCA, Rajahmundry)

### Areas of Expertise for Consultancy Purpose

- Plant Genetic Resources- Exploration & Collection, Characterization, Evaluation, Conservation, Value addition & Utilization
- Plant Taxonomy, Economic Botany
- Plant Breeding, Plant Biotechnology

### Research Publications (Best Ten)

1. Rangappa K, Singh NR, **Rajappa JJ**, Mohapatra KP, Chandra P, Choudhury BU, Prabha M, Debnath S, Chanu LJ, Devi NP, Singh NU, Hazarika S, Kumar YB and Mishra VK (2025) Tree crop interactions, productivity and physiological efficiency of understory crops in *Alnus nepalensis* and *Gmelina arborea* based agroforestry systems in Eastern Himalayas. *Front. Sustain. Food Syst.* 9:1494371. doi: 10.3389/fsufs.2025.1494371 [I.F. - 3.7]
2. Karmakar, B., Thakuria, D., Begum, R.H., **Rajappa J.J.** (2025). Recent advances in experimental design of synthetic microbial communities for biocontrol application. *BioControl*. <https://doi.org/10.1007/s10526-024-10295-w> [I.F. - 2.9]
3. Nanda C., Nagesh P., Gangadhara K., Sarala K., **Rajappa J.J.** and Madhav M.S. (2025) Assessment of CMS based Flue Cured Virginia tobacco (*Nicotiana glauca* L.) hybrids for stability of marketable yield traits in light soils of Karnataka. *Indian J. Genet.*, 85(1): 1-9. <https://doi.org/10.31742/ISGPB.85.1.18> [NAAS rating -7.20]
4. Bappa Karmakar, **Rajappa Joga**, Ramesh Thangavel & Ramie Husneara Begum (2024) Validation of the Miniaturized Spectrophotometric Determination of Organic Carbon and Phosphorus in Soils, *Communications in Soil Science and Plant Analysis*, 55:17, 2545-2553, DOI: 10.1080/00103624.2024.2367252 [I.F. - 1.9]
5. Hanamaraddi Kencharaddi, G. I. Ramkrushna, S. T. Pavan Kumar, Siknora Marak, Jyoti Vastrad, Samborlang. K. Wanniang, J. J. **Rajappa**, H. B. Santosh (2024) Present status and prospects on conservation and promotion of Comilla cotton (*Gossypium arboreum* race *cernuum*) cultivation in the Garo hills region of Northeastern India. *Genet Resour Crop Evol* DOI: <https://doi.org/10.1007/s10722-024-01959-8>. [I.F. - 1.6]
6. Dnyaneshwar M Firake, K. C. Naga, DVS Raju, Y Wagh, P Naveen Kumar, KV Prasad, P Prasanth, S Tadigiri, **Rajappa JJ**, Vasanthkumar D, RS Yadav, Girish KS, Sagar Pandit (2024). Blossom midge *Contarinia maculipennis* Felt infesting tuberose (*Agave amica*) flowers in India. *Current Science*. 126(2) 263-270. [I.F. - 1.1]
7. Bappa Karmakar, **Rajappa Joga**, Ramesh Thangavel, Dwipendra Thakuria, and Ramie Husneara Begum (2023). Introducing the 3R Program in Teaching Laboratories to Promote Sustainability Science through Miniaturization Studies on the Spectrophotometric Determination of Organic Carbon and Phosphorus in Soil. *Journal of Chemical Education*. 100 (3), 1296-1302. DOI: 10.1021/acs.jchemed.2c00931 [I.F. - 3.208]

8. S C, Srushti, Biradar, Shivaleela & J, **Rajappa** & R.L., Babu. (2022). Withania somniferous: The Wonder Plant with Withanolide E and J Inhibit Inflammatory Mediator AP-1 Factor. *Current Bioactive Compounds*. 18(2): 1-16. DOI:10.2174/1573407218666220601121738. [I.F. - 1.0]
9. **Rajappa J Joga**, Emanuel Sangma, Bappa Karmakar, Vanita Lyngdoh and Chubasenla Aochen (2021). Phytochemical investigations on the therapeutic properties of the of Ensete glaucum (Roxb.) Cheesman. *Indian Journal of Traditional knowledge*. 20(1): 68-73 [NAAS rating -7.09]
10. **Rajappa JJ**, Sangma EM and Karmakar B (2019). Enset glaucum (Roxb.) - a wild progenitor species of banana and its little-known presence in Northeast India. *Current Science*. 117(10): 1555-1556 [NAAS rating -6.88]

#### Awards/ Honours/ Recognitions

- **Dr. Harbhajan Singh Memorial Award (Triennial) -2019** by Indian Society for Genetics & Plant Breeding (ISGPB), New Delhi
- **Best Research Paper Award -2022:** by Indian Association of Hill Farming (IAHF)