## **BRIEF PROFILE**



Name of the Scientist	Dr. K. Prabhakara Rao
Designation	Scientist
Personal Information	
	Date of birth: 27-03-1978
	Email: prabhakar.k@icar.gov.in
	Telphone No. (O): Mobile No: 7702664572
Educational	M.Sc. (Agri.), Ph.D, PGDTMA
Qualification	
Discipline	Biotechnology (Agri.Sci)
Date of joining in	11-5-2010
ICAR	
Service Particulars	Scientist (Period, Inst. Name); (2010-2014, ICAR-CTRI) Scientist Sr scale (2014-2021, Inst. ICAR-CTRI)
Areas of expertise (3 bullets)	<ul> <li>DNA barcoding and molecular markers in tobacco</li> <li>TSNA in tobacco</li> <li>Gene expression and analysis</li> </ul>
Research Publications (top 10 published in scientific journals with NAAS rating)	<ol> <li>Author(s), Year. Title. Journal title (full name and in italics) Volume number (bold): Page-page.<to be="" by="" ended="" period=""> <ol> <li>Rao K P, Vani G, Kumar K and Sinha A K. 2009. Rhythmic expression of Mitogen Activated Protein Kinase Activity in Rice. Molecules and Cells 28: 417-422. (NAAS Score: 10.08)</li> <li>Rao K P, Richa T, Kumar K, Raghuram B and Sinha A K. 2010. In silico analysis reveals 75 members of mitogen activated protein kinase kinase kinase gene family in rice. DNA Research 17(3): 139-153. (NAAS Score: 10.01)</li> <li>Rao K P, Vani G, Kumar K, Wankhede D P, Mishra M, Gupta M, Sinha A K. 2011. Arsenic stress activates MAP kinase in rice roots and leaves. Archives of Biochemistry and Biophysics 506 (1):73-82. (NAAS Score: 9.39)</li> <li>Rao K P, Vani G, Kumar K, Wankhede D P, Mishra M, Gupta M, Sinha A K. 2011. Arsenic stress activates MAP kinase in rice roots and leaves. Archives of Biochemistry and Biophysics 506 (1):73-82. (NAAS Score: 9.39)</li> <li>Hyun T K, Kumar K, Rao K P, Sinha A K and Roitsch T. 2011. Role of α-tocopherol in cellular signaling: α-tocopherol inhibits stress induced mitogen activated protein kinase activation. Plant Biotechnology Reports 5(1):19-25. (NAAS Score: 7.46)</li> </ol> </to></li> </ol>

- 6. Swarnalatha, G, Sarala, K, Rao, K P, Baghyalakshmi, K, Rao, K S and Bindu, J P.2020. Parasitic interactions of Orobanche with selected *Nicotiana* species and identification of effective resistant genotypes. Genetic Resources and Crop Evolution, 1-12. (NAAS Score: 7.07)
- 7. Wankhede D P, Pallavi Singh, Monika J, Prabhakara Rao K, Raina S K and Alok Krishna Sinha. 2016. UV-B activates a 'group A' mitogen activated protein kinase in Oryza sativa. Journal of Plant Biochemistry Biotechnology. **25** (4): 392–399. (NAAS Score: 6.77)
- 8. Baghyalakshmi K, Prabhakara Rao K., Damodar Reddy D, Chandrasekhara Rao C, Soni1 P, Vinay P, Kiran1 G and Santinandivelu K. 2018. Genetic. Diversity in tobacco genotypes evaluated under all india network project. Multilogic in Science. 8 (Issue Special): 30-34. (NAAS Score: 4.51)
- 9. Prabhakara Rao K, Sarala K, Murthy T G K, Venugopala Rao P V and Suma M. 2012. Application of Simple Sequence Repeat (SSR) markers in diversity analysis of tobacco types. Tobacco Research 38 (1): 29-33. (NAAS Score: 3.33).
- 10. Saroja, T, Prabhakara Rao K Sarala K, David Samuel Raj T and Damodar Reddy D. 2019. Expression analysis of CYP82E genes associated with TSNA in *N. attenauata* data hub. Tob. Res. 45(2): 75-80. (NAAS Score: 3.33)

## Awards/ Honours/ Recognitions (in bullets)

- **Pran Vohra award**: Awarded in the 99<sup>th</sup> Indian science Congress Association (ISCA) meeting held during 3<sup>rd</sup> -7<sup>th</sup>January 2012 at Bhubaneswar.
- **Outstanding Scientist**: Awarded in the 3<sup>rd</sup> Annual Anex-8 Research Meet-ARM 2017 held on November 11, 2017 at the Radha Regent Chennai City, India by Venus International Foundation.
- Young Scientist Award: Awarded in 7<sup>th</sup> International conference on Agriculture, horticulture and Plant Sciences held at hotel Landmark, Shimla,H.P., India organized during 28-29 June 2018 organized by the Society of Tropical Agriculture, New Delhi, India.
- **Best poster award:** Awarded for the poster presented during XV<sup>th</sup> National Symposium on Tobacco Approaches and strategies for augmenting tobacco farmers income held on 19th and 20th July 2019 at BVR Sree convention hall, Rajahmundry.
- Young Scientist Award: Awarded during XV<sup>th</sup> National Symposium on Tobacco Approaches and strategies for augmenting tobacco farmers income held on 19th and 20th July 2019 at BVR Sree convention hall, Rajahmundry.
- Best Research Paper award: Received for the research article 'Orobanche menace in crop plants: Host resistance as a potential tool to control' during the National Conference on Farmers Orientation Towards Climate Change and upgrading to sustainable Agriculture (FOCUS 2019) held at National College, Trichirapalli during 23-24th Feb 2019 by Madhumitha Foundation, Telangana.
- **Best FOCARS Trainee award :** 91<sup>st</sup> FOCARS (2010) in National Academy of Agricultural Research and Management (NAARM), Hyderabad
- Fellow of Society for Applied biotechnology

- **(FASB):** Recognized as Fellow of Society for Applied biotechnology (2012)
- Associate Fellow of Andhra Pradesh Academy of Sciences: Recognized for the outstanding contributions to Science & Technology in the A.P. Science Congress 2016 held during 7-9 November, 2016 at P.B. Siddhartha Arts & Science College, Vijayawada
- **DST-DAAD Fellowship**: Oct 2007-Nov 2007, Joint fellowship programme between Indian and German governments.
- Senior Research Fellowship: August 2006 July 2009; Awarded by Council of Scientific and Industrial Research (CSIR), Govt. of India.
- Junior Research Fellowship: August 2004-July 2006; Awarded by Council of Scientific and Industrial Research (CSIR), Govt. of India.
- National Eligibility Test (NET) December 2003: Conducted jointly by University Grants Commission (UGC) and Council of Scientific and Industrial Research (CSIR), Govt. of India