

BIO-DATA

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- 3. Institution** : Kerala Agricultural University
- 4. Date of Birth** : 22-04-1978
- 5. Gender (M/F/T)** : Female
- 6. Academic Qualification (Undergraduate Onwards)**

	Degree	Year	Subject	University/Institution	% marks
1.	BSc. Agriculture	2001	Agriculture	Kerala Agricultural University	89
2.	MSc. Agriculture	2005	Agricultural Microbiology	University of Agricultural Sciences, Bangalore	93.8
3.	PhD	2010	Microbiology	Indian Agricultural Research Institute, New Delhi	8.34

7. Ph.D thesis title, Guide's Name, Institute/Organization/University, Year of Award.

Title: Cloning, sequencing and characterization of gene(s) coding for biocidal property from *Calothrix elenkinii*

Guide : Dr. Radha Prasanna

Institution: Indian Agricultural Research Institute, New Delhi

Year of Award: 2010

8. M.Sc. thesis title, Guide's name, Institute/Organization/University, Year of Award.

Title: Selection of an efficient arbuscular mycorrhizal fungus (AMF) and plant growth promoting rhizo-microorganism (PGPRM) for *Stevia rebaudiana* Bertoni.

Guide : Dr. A. N. Balakrishna

Institution: University of Agricultural Sciences, Bangalore.

Year of Award: 2005

9. Professional Recognition/ Award/ Prize/ Certificate, Fellowship received

S.No	Name of Award	Awarding Agency	Year
1.	Junior Research Fellowship	ICAR	2002
2.	Senior Research Fellowship	IARI	2007

10. Projects

1. Working as Assistant Professor in AINP on Soil Biodiversity-Biofertilizers entitled 'Integration of Biofertilizer Technology with the Farming Practices of Tribal Farmers of Attappady' from 08-03-2019.

Principal Investigator of Revolving Fund – Biotech Keralam Scheme

11. Publications

Research Articles

1. Anith, K.N., Nysanth, N.S. and Natarajan, C., 2021. Novel and rapid agar plate methods for *in vitro* assessment of bacterial biocontrol isolates' antagonism against multiple fungal phytopathogens. *Letters in Applied Microbiology*, 73(2): 229-236.
2. Resmi A.R., Lovely B., Jayapal A., Suja, G. and Chitra N. 2020. Effect of inoculation of plant growth promoting rhizobacteria (PGPR) Mix I formulations on plant growth, yield, disease incidence and disease severity of *Rhizoctonia* leaf blight of Amaranthus (*Amaranthus tricolor* L.) *Indian J. Agri. Res.* DOI: [10.18805/IJARE.A-5684](https://doi.org/10.18805/IJARE.A-5684)
3. Chitra N., Vishal G., Kanika K. and Prasanna R. 2013. Molecular characterization of fungicidal endoglucanase *Calothrix elenkinii*. *Biochem. Genet.* 51 (9-10): 766-779. (NAAS 7.5)
4. Chitra N., Prasanna R., Vishal G., Dureja P. and Nain. L. 2012. Characterization of fungicidal activity of *Calothrix elenkinii* using chemical methods and microscopy. *App. Biochem. Microbiol.*, 48 (1): 51-57. (SRJ 0.707)
5. Vishal G., Chitra N., Kanika K. and Prasanna R. 2011. Identification and characterization of endoglucanases for fungicidal activity in *Anabaena laxa* (Cyanobacteria). *Journal Appl. Phycol.*, 23 (1): 73-81. (NAAS 8.62)
6. Prasanna R., Anjali S., Jaiswal P., Nayak S., Vishal G., Chaudary V., Monica J. and Chitra N. 2010. Rediscovering cyanobacteria as a valuable source of bioactive compounds. *App. Biochem. Microbiol.*, 46 (2): 119-134. (SRJ 0.707)
7. Prasanna R., Vishal G., Chitra N. and Chaudhary V.. 2010. Bioprospecting of genes involved in the production of chitosanase and microcystin-like compounds *Anabaena* strains. *World Journal Microbiol. Biotechnol.* 26(4): 717–724. (NAAS 7.66)
8. Vishal G., Prasanna R., Chitra N., Srivastava A. K. and Sharma. J. 2010. Identification, characterization and regulation of a novel chitosanase gene (cho) in *Anabaena* spp. *Appl. Environ. Microbiol.* 76 (9): 2769-2777. (NAAS 9.81)
9. Chaudhary V., Prasanna R., Vishal G., Singh S. B., Chitra N. and Nain L.. 2010. Development of microtiter plate - based assay for evaluation of fungicidal potential of cyanobacterial metabolites. *Arch. Phytopathology and Plant Protect.*, 43 (14): 1435 – 1444.
10. Chitra N. and Balakrishna A. N. 2007. Interaction between Arbuscular Mycorrhizal Fungus *Glomus macrocarpum* and different plant growth promoting rhizomicroorganisms in *Stevia rebaudiana* Bertoni. *J. Soil Biol Ecol.*, 27 (1&2): 62-68 (NAAS 3.43)
11. Chitra N. and Balakrishna A. N. 2006. Response of *Stevia rebaudiana* to different Arbuscular Mycorrhizal Fungi. *J. Soil Biol Ecol.*, 26 (1&2): 104-108 (NAAS 3.43)

Books/Reports/Chapters/General articles etc.

1. Radha Prasanna, Monica Joshi, Vishal Gupta, Chitra Natarajan and Vidhi Chaudhary. (2009) Diversity analyses of cyanobacteria using polyphasic approaches – phenotyping, biochemical aspects and molecular tools. In: Prasanna R., Lata, Saxena A. K. And Dhar D. W. (eds) Bioprospecting microbes for agriculture pp 238-250. Division of Agricultural Microbiology, Indian Agricultural Research Institute, New Delhi. (ISBN 978-81-88707-52-9)
2. Sugitha T.K.C., Anil saxena, Vishal Gupta, Chitra Natarajan and Radha Prasanna (2009) Metagenomic library construction and cloning. In: Prasanna R., Lata, Saxena A. K. And Dhar D. W. (eds) Bioprospecting microbes for agriculture pp 299-301. Division of

Agricultural Microbiology, Indian Agricultural Research Institute, New Delhi. (ISBN 978-81-88707-52-9)

3. Sugitha T.K.C., Anil saxena, Vishal Gupta, Chitra Natarajan and Radha Prasanna (2009) Allele mining in soil metagenome. In: Prasanna R., Lata, Saxena A. K. And Dhar D. W. (eds) Bioprospecting microbes for agriculture pp 302-304. Division of Agricultural Microbiology, Indian Agricultural Research Institute, New Delhi. (ISBN 978-81-88707-52-9)
4. Popular article on '*Jaivamalinya samskaranathinu inoculum*' Krishi Jagaran,3(7) July 2019.
5. Popular article on '*Roganiyanthranathinu mithrasookshmaanukkal*' to FIB, Kerala Karshakan August 2020.
6. Technical Bulletin: Anith K. N., Chitra N., Meenakumari K. S., Nyshanth N. S., Kumar A. S., Subha P., Vigi S., Bindu R., Ajith R. P., and Mohanty S. R. 2021. Biofertilizer technology for vegetables. p 16.