Name	Nysanth N S
Date of birth	20 August 1991
Nationality	Indian
Address	Department of Agricultural Microbiology, College of Agriculture, Padannakkad Kasaragod Dt. Kerala 671314 India.
Contact Number	+91 7356859457
Email	nysanth.ns@kau.in nysanthns@gmail.com

CURRENT POSITION

Assistant Professor
Department of Agricultural Microbiology
College of Agriculture, Padannakkad
Kerala Agricultural University

AREA OF SPECIALIZATION

Plant – Microbe Interactions, Biofertilizers

EDUCATION

- **Ph. D (Microbiology):** 2021 – Pursuing. Division of Microbiology, ICAR- Indian Agricultural Research Institute, New Delhi.
- **M. Sc. Agricultural Microbiology:** Department of Agricultural Microbiology, College of Agriculture, Vellayani, Kerala Agricultural University, Thrissur.
- **B. Sc (Hons.) Agriculture:** College of Agriculture, Vellayani, Kerala Agricultural University, Thrissur.

PROFESSIONAL RECOGNITION/ AWARDS

1. Overseas Student Exchange Training Sponsored by National Agricultural Higher Education Project (NAHEP) - Centre of Advanced Agricultural Science & Technology (CAAST) fellowship, World Bank - Government of India (GOI) supported project on **Genomics for crop improvement & Management at University of Turku, Finland, 2023.**
2. ICAR Senior Research Fellowship Secured 10th rank (Category 1st) in All India Competitive Examination for Admission to Doctoral degree programme in Agricultural Universities (AUs) conducted by National Testing Agency (NTA) during 2021.

PUBLICATIONS

Research Articles

Jeevan H, Patidar RK, Kadam V, Dutta P, Nongbri E, Gouda MR, Naik S, **Nysanth NS** (2025). Implementing sustainable practices to combat root knot nematode infestation in tomato farming from Meghalaya. *Scientific Reports* 15(1):602. https://doi.org/10.1038/s41598-024-84292-5 (IF 3.9)

Nysanth NS, Senthilkumar M, Pooniya V, Viswanathan C, Swarnalakshhmi K. (2024) Mesorhizobial inoculation and fertilizer application differentially influence native bacterial community structure associated with chickpea. *Journal of Food Legumes*. 37(4):410-419. https://doi.org/10.59797/jfl.v37.i4.226

Nysanth NS, Sivapriya SL, Natarajan C, Anith KN (2022) Novel *in vitro* methods for simultaneous screening of two antagonistic bacteria against multiple fungal phytopathogens in a single agar plate. *3 Biotech* 12(6): 140. doi: https://doi.org/10.1007/s13205-022-03205-3 (IF 2.6)

Paul T, **Nysanth NS,** Yashaswini MS, Anith KN (2022). Inoculation with bacterial endophytes and the fungal root endophyte, *Piriformospora indica* improves plant growth and reduces foliar infection by *Phytophthora capsici* in black pepper. *Journal of Tropical Agriculture* 59(2).

Yashaswini MS, **Nysanth NS**, Gopinath PP Anith KN (2022) Endospore-forming phyllosphere bacteria from *Amaranthus* spp. suppress leaf blight (*Rhizoctonia solani* Kühn) disease of *Amaranthus tricolor* L. *Journal of Tropical Agriculture* 60(1).

Yashaswini MS, **Nysanth NS**, Anith KN (2021) Endospore-forming bacterial endophytes from *Amaranthus* spp. improve plant growth and suppress leaf blight (*Rhizoctonia solani* Kühn) disease of *Amaranthus tricolor* L. *Rhizosphere*, 19:100387. doi: https://doi.org/10.1016/j.rhisph.2021.100387 (IF 3.5)

Anith KN, **Nysanth NS**, 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. doi: https://doi.org/10.1111/lam.13495 (IF 2.0)

Kollakkodan N, Anith KN, **Nysanth NS** (2021) Endophytic bacteria from *Piper colubrinum* suppress *Phytophthora capsici* infection in black pepper (*Piper nigrum* L.) and improve plant growth in the nursery. *Archives of Phytopathology and Plant Protection* 54(1-2): 86-108. doi: https://doi.org/10.1080/03235408.2020.1818493 (IF 1.0)

Gopi GK, Meenakumari KS, Anith KN, **Nysanth NS**, Subha P (2020) Application of liquid formulation of a mixture of plant growth promoting rhizobacteria helps reduce the use of chemical fertilizers in Amaranthus (*Amaranthus tricolor* L.). *Rhizosphere* 15: 100212. doi: https://doi.org/10.1016/j.rhisph.2020.100212 (IF 3.5)

Nysanth NS, Meenakumari KS, Syriac EK, Beena R (2019) Screening of pink pigmented facultative methylotrophs for growth enhancement in paddy. *Biocatalysis and Agricultural Biotechnology* doi: https://doi.org/10.1016/j.bcab.2019.101055 (IF 3.8)

Gopi GK, Meenakumari KS, **Nysanth NS**, Subha P (2019) An optimized standard liquid carrier formulation for extended shelf-life of plant growth promoting bacteria. *Rhizosphere* 11: 100160. doi: https://doi.org/10.1016/j.rhisph.2019.100160 (IF 3.5)

Nysanth NS, Meenakumari KS, Syriac EK, Subha P (2018) Isolation and characterization of pink pigmented facultative methylotrophs (PPFMs) associated with paddy. *International Journal of Current Microbiology and Applied Sciences* **7***:* 2187-2210. doi: https://doi.org/10.20546/ijcmas.2018.707.258

Review articles

Nysanth NS, Rajan SA, Sivapriya SL, Anith KN (2023) Pink Pigmented Facultative Methylotrophs (PPFMs): Potential Bioinoculants for Sustainable Crop Production. *Journal of Pure and Applied Microbiology* 17(2): 660-681. doi: https://doi.org/10.22207/JPAM.17.2.17 (IF 0.8)

Nysanth NS, Divya S, Nair CB, Anju AB, Praveena R, Anith KN (2022) Biological control of foot rot (*Phytophthora capsici* Leonian) disease in black pepper (*Piper nigrum* L.) with rhizospheric microorganisms. *Rhizosphere* p.100578. doi: https://doi.org/10.1016/j.rhisph.2022.100578 (IF 3.5)

Popular articles

Nysanth NS, Sivapriya SL, Yashaswini MS, Anith K N (2021) Pink Pigmented Facultative Methylotrophs (PPFMs): Bioinoculants for Sustainable Green Agriculture. *Biotica Research Today* 3(11).

Yashaswini MS, **Nysanth NS**, Anith KN (2021) Bacterial Endophytes: Potential Role in Plant Growth Promotion, *Biotica Research Today* 3(9).

Nysanth NS, Chitra N, Meenakumari KS (2019) 'Jaivamalinya samskaranathinu inoculum.' Krishi Jagaran, July issue 3(7):16-17.

Technical bulletin

Anith KN, Chitra N, Meenakumari KS, **Nysanth NS**, Kumar AS, Subha P, Vigi, Bindu R, Ajith RP, Mohanty SR (2021) Biofertilizer technology for vegetables. p 16.

CONFERENCE / SYMPOSIUM

1. **Nysanth NS**, Haniya K, Senthilkumar M, Pooniya V, Viswanathan C, Swarnalakshhmi K (2024). Mesorhizobial inoculation and fertilizer application influence microbial community structure and function in chickpea rhizosphere. Annual International Conference of the Association of Microbiologists of India. "Perspectives of microbes for human welfare", held at Guru Jambheshwar University of Science and Technology, Hisar, Haryana, India from 14 - 17 November 2024.
2. **Nysanth NS**, Haniya K, Senthilkumar M, Pooniya V, Viswanathan C, Swarnalakshhmi K (2024) Agricultural management practices differentially influence bacterial diversity and microbial metabolic potential in Chickpea (*Cicer arietinum*). International Symposium on Microbiomes for Climate Resilient Agriculture organized by Indian Institute of Technology Delhi, October 4, 2024.
3. **Nysanth NS**, Meenakumari KS, Subha P, Vigi S, Unnimol CS, Aathira SK (2017) Antagonistic activity of Pink Pigmented Facultative Methylotrophs against phytopathogens. International Conference on Microbes for Health and Wealth. Dr. Radha Krishnan Foundation Fund and Association of Microbiologist of India Organized by Department of Microbiology and AMI-Rohtak Unit.

MEMBERSHIPS

- Association of Microbiologists of India