

Dr. Gowri Priya
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Summary

I worked on the research topic “ kinetics of herbicides in soils” during my M.Sc. programme and on “ quality control of organic manures” during my Ph.D. programme. The results of my Ph.D. research underlined the need for stringent quality control measures for commercial organic manures to conserve soil health and to safeguard the interests of farmers. As part of the study, mathematical models were developed for predicting the N, P and K contents of any mixture of bone meal, leather meal and neem cake. Currently I am interested in research on soil health, climate change and organic farming.

Research Highlights

1. Development of a protocol for quality control of commercial organic manures
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Experience

Joined Kerala Agricultural University as Assistant Professor (Soil Science & Agricultural Chemistry) in the year 2019. I have served as Vocational Teacher in Agriculture in the Department of Vocational Higher Secondary Education, Govt of Kerala for eleven years before joining as an Assistant Professor at Kerala Agricultural University.

Education

1. Obtained B.Sc.(Ag.) degree from College of Agriculture, Vellayani, Kerala Agricultural University (1999)
 2. Post Graduation in Soil Science & Agricultural Chemistry from Agricultural College and Research Institute, Tamil Nadu Agricultural University, Coimbatore. (2001)
 3. Ph.D in Soil Science & Agricultural Chemistry from College of Agriculture, Vellayani, Thiruvananthapuram(2008)
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Area of Specialization

Soil health, Quality control of organic manures.

Awards & Recognitions

- First Prize in Oral Presentation, KAU - Corteva International Plant Science Symposium - 2024
- Best Research Paper Award for Oral Presentation, National Seminar on Soil Water Symbioses - 2023
- IARI Gold Medal (University Merit Medal for Ph.D.), ICAR-IARI, New Delhi-2021
- Gold Medal (Dr. S. P. Raychoudhuri Memorial Gold Medal), Delhi Chapter of Indian Society of Soil Science, New Delhi- 2021
- Best Research Scholar Award, Agro Environmental Development Society (AEDS) - 2020
- Best Research Paper Award, Indian Poultry Science Association Conference (IPSACON-2018)
- Young Scientist Award for the Best Research Paper Presented, Centre for Environment and Development (CED), Thiruvananthapuram - 2017
- International Plant Nutrition Institute (IPNI) Scholar Award-2016, Board of Directors of IPNI, U.S.A.
- Second Rank (All India) in ARS Examination (Soil Science), Agricultural Scientist Recruitment Board, ICAR, New Delhi - 2016
- Junior Research Fellowship: University Grants Commission (UGC), Govt. of India, 2015-16
- First Rank in M. Sc. (Agriculture) with specialization in Soil Science and Agricultural Chemistry. University of Agricultural Sciences (UAS), Raichur, Karnataka-2014
- University Gold Medal, University of Agricultural Sciences (UAS), Raichur, Karnataka -2013
- Project Fellowship Bellary Thermal Power Station (BTPS), Karnataka Thermal Power Corporation Limited, Karnataka - 2013
- University Merit Scholarship, University of Agricultural Sciences (UAS), Raichur, Karnataka, 2012-13

Research Projects

Ongoing

- Developing Diagnostic Standards for Monitoring Nutrient Imbalance in Coconut of Kerala
- Observational Trial on Strengthening of KAU Soil Test Service: Web-enabled software package for farmers

Completed

- Study of carbon footprints in major farming systems of A&N Islands for climate change adaptation [PI]
 - Organic Farming Studies for Sustaining Productivity of Island Cropping Systems [PI]
 - High-value vegetable cultivation and vermicompost production in rainout shelters for doubling farmer's income [Co-PI]
 - Management of moisture stress in vegetable cropping systems [Co-PI]
 - Evaluation of rice genotypes for high phosphorus efficiency in Andaman and Nicobar Island conditions [Co-PI]
 - Study of hydrological response for soil and water conservation in Island ecosystem [Co-PI]
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Publications

Journal Articles

- Aparna, B., Gladis, R., Priya, G. and Aswathy, U.A. 2021. Effect of different sources of zinc on the activities of plant and soil enzymes. *Indian J. Agril. Sci*, 17(1): 42-47
- Sruthi, A.S., Indira, M., Jayapal, A., Priya, G. and Rani, B. 2022. Soil application of organic nano NPK on growth, yield and quality of sesame (*Sesamum indicum*) in the Onattukara sandy tracts of Kerala. *J.Crop Weed*. 18(1):232-237
- Athulya, B.M., Priya, G., Rani, B., Aparna, B. and Nishan, M.A., 2023. Assessment of soil quality index in the southern coastal sandy soils of Kerala, India. *Intl. J. Environ. Climate Change*, 13(8): 526-536
- Athulya, B.M., Priya, G., Rani, B., Aparna, B. and Nishan, M.A., 2023. Characteristics and soil fertility status of Southern Coastal Plains in Kerala. *J. Indian Soc. Coastal Agric. Res.*41(2):13503,59-68
- Sreeshna. T., Aparna, B., Rani, B., and Priya, G. 2023. Effect of bulking agents on physical, chemical and biological properties of latex sludge waste. *Int. J. of Environ. and Climate Change*. 13(11): 2395-2400
- Divya, S. N., Priya, G., Rani, B., Aparna, B., Soumya, V. I. and Gopinath, P. P. 2023. Soil Biodiversity: Influence of Soil Management Systems. *Int. J. Environ. Clim. Chang.*, 13(11), 3339–3348.
<https://doi.org/10.9734/ijecc/2023/v13i113507>

Books

1. Aparna, B., Rani, B., Joseph, B., Priya, G. and Preetha, D. 2022. Compilation of research on Organic Agriculture in the Department of Soil Science & Agril. Chemistry at College of Agriculture, Vellayani, XXXVIII ZREAC, RARS(SZ) Vellayani. Department of Soil Science & Agril. Chemistry & Dept of Organic Agriculture, College of Agriculture, Vellayani, Thiruvananthapuram.38p.
2. Rani, B., Gladis, R., Priya, G., Swaroop, R., Nair, R.V.R. and Preetha, D. 2022. Sampushta mannu paripalanavum sasya poshanavum. Karshakarkku oru kaippusthakam. Kerla agricultural University, Department of Soil Science & Agril. Chemistry, College of Agriculture, Vellayani
3. Rani, B., Priya, G. and Leno, N. 2022. Climate resilient soils: a paradigm for nutritional sustenance- Compendium. Department of Soil Science & Agril. Chemistry, College of Agriculture, Vellayani.69p.

Book chapters

4. Aparna, B., Anushma, S., Ushakumari, K., Gladis, R. and Priya, G. 2019. Management of aquatic weeds using degrading enzymes *In: Amrutha, S.A., Anushma, S., Aparna, B., Biju, J. et al. 2019. Degradable solid waste management technologies- A boon for healthy soil and society*. Department of Soil Science & Agril. Chemistry, Kerala Agricultural University, College of Agriculture, Vellayani, Thiruvananthapuram, Kerala. Technical Bulletin.41-48
5. Priya, G. 2023. Climate change and agriculture: friends or foes? *In: Deepika V.S.(ed.), India and climate change Issues and challenges*. Serial Publications Pvt Ltd, New Delhi, pp109-128.
6. Priya, G., Ajayan, A.S., Krishnapriya, M.K. and Vijay, A.B. 2023. Samyojitha poshaka paripaalanam. *In: Rani, B., Aparna, B. and Priya, G. (eds). Mannupariposhanam karshika susthirathakku*. State Institute of Languages, Kerala, Thiruvananthapuram. 91-103

Leaflets:

7. Divya, S and Priya, G. 2023. *Jiavkrishiyile roganianthranam*. Department of Soil Science & Agricultural Chemistry.
8. Nilamudeen, M. and Priya, G. 2023. *Jaiva jeevanu keedaniyanthrana margangal*. Department of Soil Science & Agricultural Chemistry.
9. Aparna, B. and Priya, G. 2023. *Draavaka jaiva valangal*. Department of Soil Science & Agricultural Chemistry.

Popular article:-Divya, S.N., and Priya, G. 2023. Soil biodiversity and its importance. Kerala karshakan, Farm Information Bureau, 11(6): 25-30

Student Guidance (Major Advisor/ Advisory Committee member)

Completed: 2

Ongoing : 2

Other Institutional Responsibilities

- Joint convener of Technical cell, College of Agriculture, Vellayani
- Domain expert in the Technical Advisory Panel of Agriculture Division, Kerala State Planning Board.
- Master Trainer for Academic Management System, KAU
- Member of Database management committee of the College
- Student Advisor/faculty mentor to 10 Undergraduate students.
- Member of committee for prepration of ICAR Accreditation SSR of the college