

Scientific Publications

1. **A. Kavitha Reddy**, M. Shanthi Priya, D. Mohan Reddy and B. Ravindra Reddy (2018). Genetic variability studies in blackgram under organic management. *Green Farming*, 9(5), 922–924.
2. **A. Kavitha Reddy**, M. Shanthi Priya, D. Mohan Reddy and B. Ravindra Reddy (2018). Genetic divergence studies in blackgram (*Vigna mungo* (L.) Hepper). *International Journal of Pure and Applied Biosciences*, 6(5), 232–237.
3. **A. Kavitha Reddy**, M. Shanthi Priya, D. Mohan Reddy and B. Ravindra Reddy (2018). Genetic variability studies in blackgram. *International Journal of Chemical Studies*, 6(5), 2569–2572.
4. **A. Kavitha Reddy**, M. Shanthi Priya, D. Mohan Reddy and B. Ravindra Reddy (2018). Studies on yield, yield related and physiological traits under organic and inorganic fertilizer management in blackgram. *Andhra Pradesh Journal of Agricultural Sciences*, 4(3), 162–168.
5. **A. Kavitha Reddy**, M. Shanthi Priya, D. Mohan Reddy and B. Ravindra Reddy (2020). Correlation and path coefficient analysis for yield, yield components and water use efficiency traits in blackgram under organic fertilizer management. *Journal of Pharmacognosy and Phytochemistry*, 9(6), 2050–2052.
6. M. Bhargavi, K. Maneesha, D. M. Withanawasam, **Kavitha R. Aratikatla**, S. Himabindu, M. Prashanth, P. Shanthi, M. L. Kommana, D. Mohan Reddy, B. Ravindra Reddy and Lakshminarayana R. Vemireddy (2021). A novel barcode system for rapid identification of rice (*Oryza sativa* L.) varieties using agro-morphological descriptors and molecular markers. *Molecular Biology Reports*, 48, 2209–2221. <https://doi.org/10.1007/s11033-021-06230-2>
7. **A. Kavitha Reddy**, M. Shanthi Priya, D. Mohan Reddy and B. Ravindra Reddy (2021). Principal component analysis for yield in blackgram (*Vigna mungo* L. Hepper) under organic and inorganic fertilizer managements. *International Journal of Plant & Soil Science*, 33(9), 26–34.
8. **A. Kavitha Reddy**, D. M. Reddy, Lakshminarayana, R. Vemireddy, P. Sudhakar and B. V. Bhaskara Reddy (2021). Parental selection, combining ability effects and gene action for yield and earliness in blackgram [*Vigna mungo* (L.) Hepper]. *Biological Forum – An International Journal*, 13(1), 400–408.
9. **A. Kavitha Reddy**, D. M. Reddy, Lakshminarayana, R. Vemireddy, P. Sudhakar and B. V. Bhaskara Reddy (2022). Studies on heterotic trends in blackgram [*Vigna mungo* (L.) Hepper] for yield and earliness. *Legume Research – An International Journal*, 47(64), 1–6.
10. **A. Kavitha Reddy**, D. M. Reddy, Lakshminarayana, R. Vemireddy, P. Sudhakar and B. V. Bhaskara Reddy (2022). Scrutiny of gene action underlying yield contributing traits

and earliness in blackgram (*Vigna mungo* (L.) Hepper). *Electronic Journal of Plant Breeding*, 13(3), 1077–1083.

11. **A. Kavitha Reddy**, D. Mohan Reddy, Lakshminarayana, R. Vemireddy, P. Sudhakar and B. V. Bhaskara Reddy (2022). Estimation of heterosis and inbreeding depression for yield and earliness in blackgram (*Vigna mungo* (L.) Hepper). *Journal of Food Legumes*, 35(4), 232–237.
12. **A. Kavitha Reddy**, D. Mohan Reddy, Lakshminarayana, R. Vemireddy, P. Sudhakar and B. V. Bhaskara Reddy (2024). Selection efficiency of molecular markers associated to Yellow Mosaic Virus (YMV) tolerance and identification of donors for earliness, yield and YMV tolerance in blackgram (*Vigna mungo* (L.) Hepper) using GT Biplot analysis. *Electronic Journal of Plant Breeding*, 15(2), 370–379.
13. Velchala Praveen Rao, Darmagaru Shivani, Selvaraj Ramchander, Sarma C. Mallubhotla and **Kavitha Reddy Aratikatla (2026)**. Industrial perspectives on quality seed and planting material production and distribution: Evolution, challenges, and strategic pathways for horticultural crops in Amrit Kaal. *Shodh Chintan*, 18, 43–48.

Short Communications

1. **A. Kavitha Reddy**, M. Shanthi Priya, D. Mohan Reddy and B. Ravindra Reddy (2020). Assessment of genetic divergence among blackgram (*Vigna mungo* (L.) Hepper) genotypes under organic fertilizer management. *Journal of Food Legumes*, 33(4), 270–273.
2. **A. Kavitha Reddy**, D. M. Reddy, Lakshminarayana, R. Vemireddy, P. Sudhakar and B. V. Bhaskara Reddy (2022). Identification of transgressive segregants for yield and earliness in blackgram [*Vigna mungo* (L.) Hepper]. *Journal of Food Legumes*, 35(1), 68–70.
3. Darmagaru Shivani, **A. Kavitha Reddy**, G. Madhuri, Dekshina Raj R. and R. Abdul Fiyaz (2026). Optimization of in vitro plant regeneration from mature seeds of rice (*Oryza sativa* L. cv. Swarna). *Journal of Cereal Research*, 18(2).

Book Chapters

1. D. Shivani, **A. Kavitha Reddy** and Ramya Rathod (2019). Polygenic resistance breeding – Constraints and measuring of plant resistance. *AkiNik Publications*, 5(4), 51–58. ISBN: 978-93-5335-518-0.
2. **A. Kavitha Reddy**, Aparna Eragam and D. Shivani (2023). Ideotype breeding for crop improvement: Problems and prospects. *SR Edu Publications*, 1(10), 143–151. ISBN: 978-93-92941-12-2.
3. Aparna Eragam and **A. Kavitha Reddy** (2024). CRISPR mediated genome editing towards development of tailor-made rice. *AkiNik Publications*, 26(4), 73–84. ISBN: 978-93-5834-302-1.

4. Aparna Eragam and **A. Kavitha Reddy** (2025). Real time PCR for gene expression studies. *JPS Scientific Publications*, 1(13), 214–222. ISBN: 978-93-48679-80-2.

Book

1. D. Shivani, Ayesha and **A. Kavitha Reddy** (2019). *Key Notes on Plant Breeding*. AkiNik Publications. ISBN: 978-93-5335-572-2.

Abstracts / Conference Presentations

1. **A. Kavitha Reddy**, M. Shanthi Priya and D. Mohan Reddy (2017). Enhancing agricultural productivity under global climate change. *National Conference on Doubling Farmers Income for Sustainable and Harmonious Agriculture (DISHA 2017)*, 9–10 September 2017.
2. **A. Kavitha Reddy** and M. Shanthi Priya (2018). Introgressomics for crop improvement. *7th National Seminar on Bioinformatics Proceedings*, 14–15 March 2018.
3. **A. Kavitha Reddy**, M. Shanthi Priya, D. Mohan Reddy and B. Ravindra Reddy (2019). Correlation studies for yield, yield components and water use efficiency traits in blackgram under organic and inorganic fertilizer managements. *National Conference for Post Graduate Students on Novel Approaches for Doubling Farmer Income through Sustainable Agricultural Production Systems*.
4. **A. Kavitha Reddy (2019)**. Stress memory in plants. *International Conference on Advances in Biosciences and Technology: Impact on Plant, Animal and Human Health (ICABT-2019)*.
5. **A. Kavitha Reddy**, D. M. Reddy, V. L. N. Reddy, P. Sudhakar and B. V. Bhaskar Reddy (2021). Pulse production in India – Bottlenecks and strategies. *National Conference for Post Graduate Students on Multidimensional Approaches for Sustaining Food and Nutritional Security*, 4–5 February 2021.
6. **A. Kavitha Reddy**, D. M. Reddy, V. L. N. Reddy, P. Sudhakar and B. V. Bhaskar Reddy (2021). Tracking down the inheritance pattern of pod hairiness in blackgram (*Vigna mungo* L. Hepper). *National Web Conference on Sustaining Pulse Production for Self Sufficiency and Nutritional Security (Pulse WebCon)*, 9–11 February 2021.
7. **A. Kavitha Reddy**, D. Mohan Reddy, Lakshminarayana, R. Vemireddy, P. Sudhakar and B. V. Bhaskara Reddy (2024). Selection of genotypes for yield, yield related traits, earliness and YMV tolerance in blackgram using Genotype by Trait Biplot Analysis. *Nurturing Agricultural Technologies for Uplifting Rural Economy (NATURE-1)*, School of Agriculture, Mohan Babu University, Tirupati, 26–28 July 2024.
8. **A. Kavitha Reddy** and D. Shivani (2026). CRISPR-Cas genome editing in crops: Driving resilience and sustainability through precision genomics. *International Conference on Advances in Breeding Crops for Changing Climate: Challenges and Opportunities*, 12–13 March 2026.

9. Velchala Praveen Rao, Darmagaru Shivani, Selvaraj Ramchander, Sarma C. Mallubhotla and **Kavitha Reddy Aratikatla** (2026). Industrial perspectives on quality seed and planting material production and distribution: Evolution, challenges, and strategic pathways for horticultural crops in Amrit Kaal. *National Conference on Strategic Paradigm of Quality Seed and Planting Material for Horticultural Crops in Amrit Kaal*, MPHU, Karnal, 28–31 May 2026.

Popular Articles

1. **A. Kavitha Reddy (2020)**. Microscope types and maintenance. *Readers Shelf*, 16(2), 4–5.
2. **A. Kavitha Reddy (2020)**. Organic breeding in blackgram: Need and prospects. *Readers Shelf*, 16(10), 16–17.
3. K. Saimaheshwari and **A. Kavitha Reddy (2020)**. Integrated vertical farming systems for innovative land utilisation. *Readers Shelf*, 16(9), 46–48.
4. **A. Kavitha Reddy (2021)**. Signal transduction in plants. *Agriculture and Food E-Newsletter*, 3(1), 74–75.
5. **A. Kavitha Reddy (2021)**. Role of pulses in sustainable soil management. *Agriculture and Food E-Newsletter*, 3(1), 417–418.
6. **A. Kavitha Reddy (2021)**. Breeding crops for nutritional security. *Agriculture and Food E-Newsletter*, 2(12), 520–521.
7. **A. Kavitha Reddy (2021)**. Applications and prospects of nanotechnology in agriculture. *Agriculture and Food E-Newsletter*, 3(9), 312–313.
8. **A. Kavitha Reddy (2021)**. QTL-Seq analysis – A novel technique for precise mapping of QTLs. *Agriculture and Food E-Newsletter*, 3(10), 49–50.
9. **A. Kavitha Reddy (2022)**. Apomixis and its implications in plant breeding. *Readers Shelf*, 18(8), 4–5.
10. Eragam Aparna and **A. Kavitha Reddy (2022)**. Biofortification of staple food crops using new breeding techniques. *Agriculture and Food E-Newsletter*, 4(7), 360–362.
11. Eragam Aparna and **A. Kavitha Reddy (2022)**. RNA interference mechanism in insects and exploitation in plant pest control. *AgriCos E-Newsletter Open*, 3(7), 7–8.
12. **A. Kavitha Reddy and Eragam Aparna (2022)**. Speed breeding and its implications in crop improvement. *Readers Shelf*, 18(12), 27–28.
13. **A. Kavitha Reddy and Eragam Aparna (2024)**. Seed microbiomes and sustainable agriculture. *Agriculture and Food E-Newsletter*, 6(6), 248–249.
14. Eragam Aparna and **A. Kavitha Reddy (2024)**. Role of rhizosphere microbiome in plant biotic stress management. *AgriCos E-Newsletter*, 5(10), 12–13.

15. **A. Kavitha Reddy**, D. Shivani, K. Mahendra and N. Varsha (2025). Advancing agricultural frontiers through space breeding, pathogen defense, and agronomic insights. *Agriculture and Food E-Newsletter*, 7(10), 92–94.
16. K. Sai Sharvani, Chandrasekhara Sarma M., Ramchander S., Shivani D. and **Kavitha Reddy A.** (2025). Seed quality & hybrid seed sector and its impact on crop yield for sustainable agriculture. *Agriculture and Food E-Newsletter*, 7(11), 93–96.
17. K. Divya, **Kavitha Reddy A.**, Shivani D., Ramchander S. and Chandrasekhara Sarma M. (2025). From farmers' fields to global treaties: The journey of plant genetic resources. *Agriculture and Food E-Newsletter*, 7(12), 103–106.
18. Pavan Kumar S., **Kavitha Reddy A.**, Shivani D., Ramchander S. and Chandrasekhara Sarma M. (2025). Effect of moisture on seed viability and vigour. *Agriculture and Food E-Newsletter*, 7(12), 107–110.
19. E. Revanth Kumar Goud, Ramchander S., Chandrasekhara Sarma M., **Kavitha Reddy A.** and Shivani D. (2025). Speed breeding: Accelerating the future of crop improvement. *AgriGate Magazine*, 5(11), 383–390.
20. D. Mishasri, K. Mahendra, Shivani Darmagaru, A. **Kavitha**, Chandrasekhara Sarma M. and Ramchander (2025). Guccchi mushroom: A comprehensive overview of the Himalayan morel. *The Agriculture Magazine*, 5(4), 210–212.
21. Maddi Sneha, Ramchander S., Chandrasekhara Sarma M., Shivani D. and **Kavitha Reddy A.** (2025). The man who fed India – Green Revolution. *New Era Agriculture*, 4(6), 86–92.
22. Shreyash S. Nemanwar, **A. Kavita Reddy**, D. Shivani, S. Ramchander and M. Chandrasekhara Sharma (2026). Economics of stages of seed multiplication/production. *Just Agriculture*, 6(5), 26–28.
23. Kodati Bhavana, Ramchander S., Chandrasekhara Sarma M., Shivani D. and **Kavitha Reddy A.** (2026). Hydroponics – A modernized farming system. *New Era Agriculture Magazine*, 4(5), 69–74.
24. G. Sai Krishna, M. Chandrasekhara Sarma, S. Ramchander, D. Shivani and **A. Kavitha Reddy** (2026). Drones in agriculture: Precision, monitoring, and management. *GreenariA*, 4(2), 80–81.
25. B. Mounika, Darmagaru Shivani, **Kavitha Reddy A.**, Chandrasekhara Sarma M., Ramchander S. and Dakshina Raj R. (2026). Gene editing: Principles, tools and applications. *Agrimagazine*, 2(4), 366–369.
26. Koramoni Abhiram, Shivani Darmagaru, **Kavitha Reddy A.**, Chandrasekhara Sarma M. and Ramchander S. (2026). Banking on the future: How saving seed can save us all. *Domain: Agriculture*, 5(3), 298–303.

27. Shirisha K., Chandrasekhara Sarma M., Ramchandra S., Shivani D. and **Kavitha Reddy A.** (2026). Current trends in large-scale plant tissue culture propagation and domestic market in India. *Domain: Agriculture*, 5(3), 410–414.

Training Programmes / Workshops

1. State-Level Biosafety Capacity Building Workshop (2018). Regional Agricultural Research Station (RARS), Tirupati, ANGRAU and Biotech Consortium India Limited, 23 April 2018.
2. One-Week Hands-on Workshop on Cloning and Transformation Techniques (2018). Sri Padmavati Mahila Visvavidyalayam, Tirupati, sponsored by DST, Government of India, 1–7 December 2018.
3. Ten-Day Training on Genome-Wide QTL Detection and Prediction of Breeding Values (2019). Department of Genetics and Plant Breeding, College of Agriculture, GKVK, Bengaluru, under NAHEP–ICAR Project, 27 November–6 December 2019.
4. Online Training on Introduction to Python Programming and Its Application in Climate Smart Agriculture (2020). CAAST, MPKV, Rahuri, 7–10 May 2020.
5. International Online Workshop on Quantitative Genetics and Genomics in Plant Breeding (2020). Department of Biotechnology, Vignan's Foundation for Science, Technology & Research, 23–27 November 2020.
6. Online Training on Statistical Data Analysis Using R Software (2021). Assam Agricultural University, Dhubri, 4–11 January 2021.
7. Orientation Programme for Affiliated Agricultural Colleges of ANGRAU (2022). S.V. Agricultural College, Tirupati, 30–31 May 2022.
8. National Workshop on Understanding ICAR 6th Deans' Committee Draft Report on Restructuring UG Agricultural Education Programmes to Implement NEP Policy (2024). Agri Trainings, 28 July 2024.
9. Online Training on Artificial Intelligence and Machine Learning for Bioinformatics and Its Applications (2024). E & ICT Academy, NIT Warangal, 14–24 December 2024.
10. International Training Programme on Sustainable Agriculture, Livestock and Allied Sciences (2025). AR Agrix, 1–21 July 2025.
11. Hands-on Training in CRISPR/Cas9-Based Genome Editing in Crop Plants (2025). Centre for Plant Molecular Biology and Biotechnology, TNAU, Coimbatore, 5–8 August 2025.
12. Drone Pilot Certification Course (2026). Kaveri Drone Training Academy, Kaveri University, 1–5 June 2026.
13. Faculty Development Programme on Tractor and Its Troubleshooting (2026). TAFE Unit, Kaveri University, 5 June 2026.

14. Faculty Development Programme on Basic Microscopy Skills for Plant Disease Diagnosis and Fungal Identification (2026). Plant Pathology Laboratory, School of Agriculture, Kaveri University, 6 June 2026.
15. ISRO–IIRS Online Training Programme: From the Earth to the Near-Earth Space (2026). ISRO–Indian Institute of Remote Sensing (IIRS), 6–10 July 2026.
16. Online Workshop on Introduction to Plant Bioinformatics and Scientific Writing (2026). Plant Science Research Hub, 24 July 2026.
17. Online Workshop on Aerosols: Measurement, Retrieval and Impacts (2026). IIRS–ISRO, 27–28 July 2026.
18. Online Workshop on Earth Observations and Numerical Model Applications for Tropical Cyclone Monitoring and Forecasting (2026). IIRS–ISRO, 30 July 2026.
19. Faculty Development Programme on Avenue Tree Plantation and Use of Forestry Instruments (2026). Department of Agronomy, School of Agriculture, Kaveri University, 31 July 2026.
20. Faculty Development Programme on Molecular Techniques – Series I: DNA Isolation by CTAB Method (2026). Department of Genetics and Plant Breeding, School of Agriculture, Kaveri University, 7 August 2026.
21. Two-Day Hands-on Workshop on Machine Learning with R (2026). TechMedBuddy, 15–16 August 2026.
22. Hands-on Training on Mining Genomic Insights and Mastering Citations: Advanced Approaches in Plant Gene Analysis (2026). Plant Science Research Hub, 23 August 2026.
23. RT-PCR Hands-on Training Session (2026). Thermo Fisher Scientific, Inc., Genome Valley, Shameerpet, 27 August 2026.