



**AMRITA**  
VISHWA VIDYAPEETHAM  
DEEMED TO BE UNIVERSITY UNDER SECTION 3 OF UGC ACT, 1956

**SCHOOL OF  
AGRICULTURAL SCIENCES**  
Arasampalayam, Coimbatore Campus

# ASA BIMONTHLY E-NEWSLETTER

Volume 6 | Issue 1

January - February 2025

"Develop the ability to stand back as a witness to your thoughts. This will make your mind strong"

**Amma, Sri Mata Amritanandamayi Devi**

Chancellor, Amrita Vishwa Vidyapeetham



# I. COURSE ACTIVITIES

## 1. Student READY- ASA 2021 Batch RAWE Programme

### a. Village Attachment and Plant Clinic

As part of the RAWE programme, 2021 batch students were attached to village panchayats in Kinathukadavu, Pollachi (North), and Madukkarai regions, viz., Arasampalayam, Myleripalayam, Vadasithur, Kurunallipalayam, Andipalayam, Solavampalayam, Kulathupalayam, Vadapudur, Sirukalandai, and Sokkanaur during January 2025. During this attachment, students conducted various need-based demonstrations, training, awareness campaigns, and meetings with the farming community.

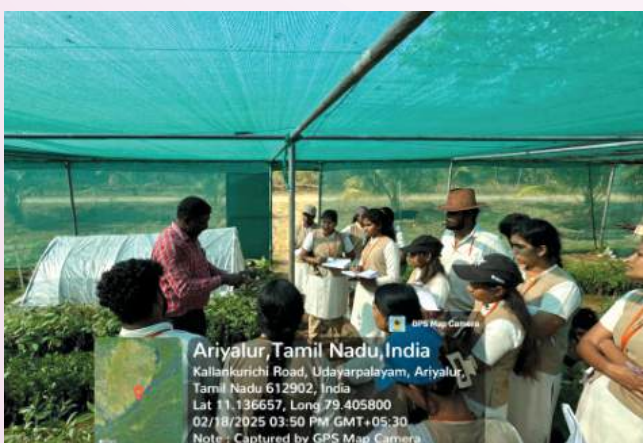


## Plant Clinic



## b. KVK Attachment

As part of the RAWE programme, from 3<sup>rd</sup> to 20<sup>th</sup> February 2025, students were placed with the Krishi Vigyan Kendras (KVKs) in Alappuzha, Ariyalur, Coimbatore, and Theni. Students learned the KVK mandate activities, role, and extension mechanisms. Also, students engaged themselves in technology dissemination through farmers' training and technology assessment through field visits with the help of KVK Heads and Subject Matter Specialist (SMS) of KVKs. This attachment was organized by course teachers Dr. Sudheesh Manalil, Dean and Head Research, Dr. Sivaraj P, RAWE coordinator, and Dr. Sathyapriya E, Assistant Professor. Students were accompanied by Dr. Sivasabari K, Dr. Boopathi G, Dr. V. Marthandan V, Dr. V. R. Mageshen, Assistant Professors, and Ms. Mahalakshmi D, Physical Educator.



The second-year students (2023 batch) of ASA created a disaster calendar for the year 2024 for the course 19ENV201, Environmental Studies and Disaster Management under the guidance of Dr. Jidhu Vaishnavi S. Assistant Professor. The calendar was based on a number of natural disasters that occurred in every month of the year, including earthquakes, heat waves, cold waves, tsunamis, etc. Disasters at the state, federal, and international levels are included. Each student's preparation of the disaster calendar was unique and exhibited a high level of inventiveness.



## II. COLLEGE EVENTS

### 1. Pongal Celebration 2025

Amrita School of Agriculture has celebrated Pongal on 9<sup>th</sup> January, 2025 with great enthusiasm. The festivities featured a vibrant procession that included a traditional bullock cart, accompanied by a lively Jamab drums band. Students of ASA showcased authentic Tamil Nadu cultural dances such as Kavadi, Oyillattam, and Silambattam, highlighting the rich heritage and festive spirit of the occasion.

As part of the celebrations, a ramp walk was organized from ASA Vinayagar Temple to the playground, passing through the ASA campus with ingredients required for Pongal. Students came together to prepare Pongal on the ground, demonstrating unity and teamwork. In the afternoon, Mattu Pongal was celebrated to honor and show respect to cows, reflecting rural traditions. The Mattu Pongal festivities took place on our campus, emphasizing reverence for cattle. The celebration continued with dance performances by students and fun-filled games such as bottle filling, lucky corner, and balloon blasting. Both students and faculty actively participated in these activities, and the winners were rewarded with unique gifts related to village life, adding a special touch to the event. Followed by the Saptha Band performed as part of a celebration with an orchestra starting and students enthusiastically joined for the orchestra's performance, and the celebration.



## 2. AYUDH 2025: Tapioca Planting Program

Following AMMA's vision of harmony with nature, this community-driven effort highlighted growers' role in nurturing the environment and society. Ayudhians joined hands to plant tapioca cuttings as part of the ongoing green initiatives under the AYUDH program on 10<sup>th</sup> January 2025, at the Instructional farm of ASA. Dr. Sudheesh Manalil, Dean and Head Research, initiated and trained the activity for the students. This agricultural activity emphasizes the significance of sustainable farming practices and self-reliance in food production. This event was organized by AYUDH Coordinator Dr. Sivasabari K, Assistant Professor (SAC).



## 3. Republic Day Celebration at ASA

On 26<sup>th</sup> January 2025, ASA faculty, staff, and students jointly celebrated the 76<sup>th</sup> Republic Day on the campus. This event was organized by Dr. Karthikraja V, Department of Physical Education, ASA.



## 4. AYUDH 2025: Seed Dropping Method Programme

ASA organized the Seed Dropping Method Programme on 31<sup>st</sup> January 2025, at the Instructional Farm. The program focused on the seed-dropping method, a simple yet effective technique that enhances seed germination and crop establishment with minimal soil disturbance. Dr. Sudheesh Manalil, Dean and Head Research explained the advantages of this technique and initiated it by directly dropping the seeds into the field. This method involves seeding with a stick that is tapered at one end to create a hole in the soil. A seed is then dropped through a small pipe or tube into the hole, which is subsequently covered using the operator's foot or shoe. This technique eliminates the need for bending, making it less physically demanding for the planter. It also allows for precise planting over a large area with greater efficiency.

During the event, seeds of nutrient-rich crops such as cowpea, bottle gourd, bitter melon, and pumpkin were sown, emphasizing the significance of diversified cropping systems in sustainable agriculture. Students, faculty members, and volunteers actively participated in the hands-on seed dropping activity, fostering a deep understanding of eco-friendly farming practices and their role in achieving food security.



## 5. AMMA Coimbatore Visit: ASA participation

Beloved Chancellor Amma Sri Mata Amritanandamayi Devi visited Amrita Vidyalayam Nallampalayam Campus, Coimbatore on February 22 and 23, 2025. As part of the celebrations, the ASA exhibition stall was set up, offering seedlings and farm products. Among these, the IoT sensor-based irrigation was demonstrated, and visitors had the opportunity to learn about the importance of smart sensor-based irrigation and how they could contribute to water conservation and precision farming. All the faculty, students, and staff actively participated in the event and received blessings from Amma.



## 6. Maha Shivratri Celebration

Maha Shivratri was celebrated at ASA on 26<sup>th</sup> February 2025. The celebration started with Bhajans dedicated to Lord Shiva. The music created a peaceful and spiritual atmosphere, and everyone joined in with devotion. As part of the programme, AYUDH also organized a unique activity: Storytelling through drawing. Students drew pictures based on stories from the life of Lord Shiva. This helped everyone learn more about Shiva's greatness in a creative way. The event ended with an aarathi for peace and happiness. It was a memorable evening filled with devotion, creativity, and togetherness.

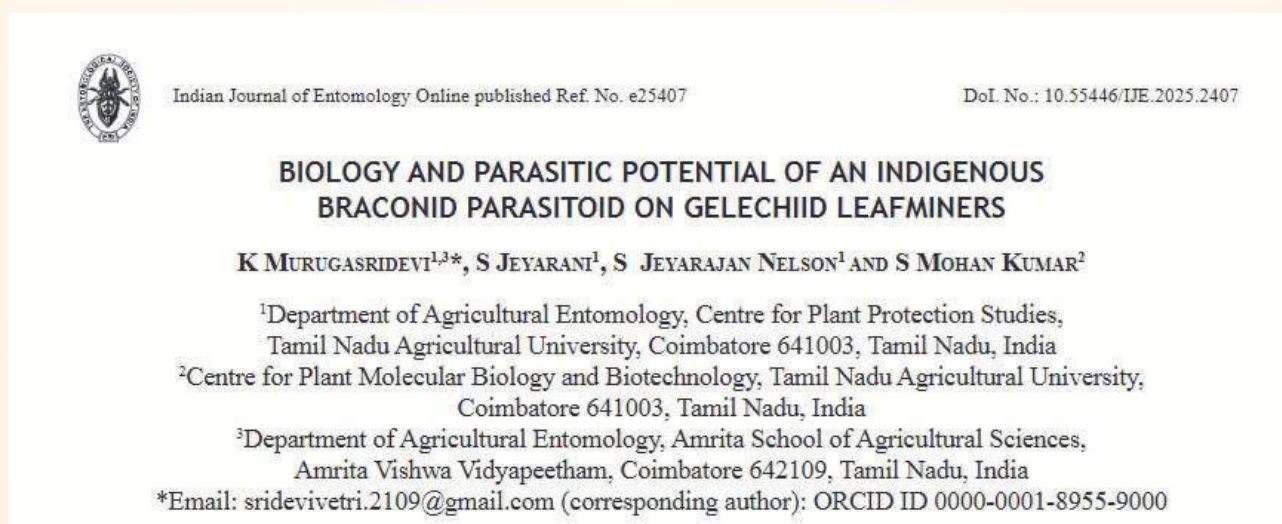


### III. PUBLICATIONS AND PARTICIPATION

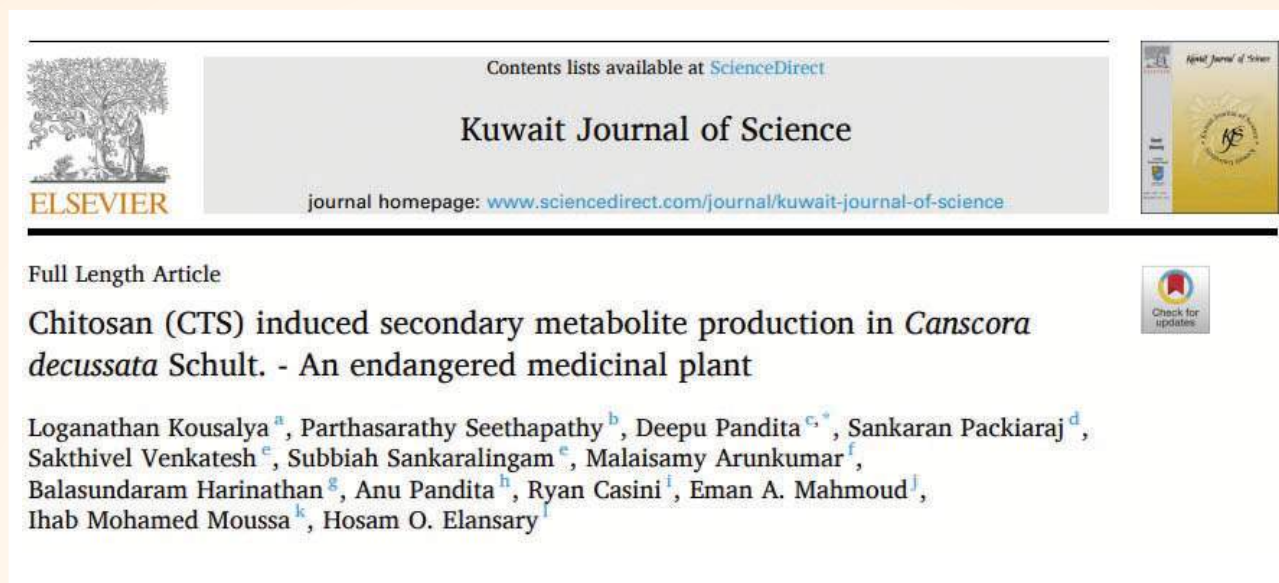
1. **Dr. Manivasagam V S**, Assistant Professor (Agriculture Informatics), has published a review article entitled “From Bytes to Farm: Transferability of Industrial Digital Twins in Agricultural Systems” Journal of Biosystems Engineering, 2025. <https://link.springer.com/article/10.1007/s42853-025-00256-1>



2. **Dr. K. Murugasridevi**, Assistant Professor (Agricultural Entomology) has published a research article entitled, “Biology and Parasitic Potential of an Indigenous Braconid Parasitoid on Gelechiid Leafminers”, (2025), Indian Journal of Entomology. <https://doi.org/10.55446/IJE.2025.2407>



3. **Dr. Parthasarathy S**, Assistant Professor (Plant Pathology) has published a research article entitled “Chitosan (CTS) induced secondary metabolite production in *Canscora decussata* Schult - An endangered medicinal plant”. Kuwait Journal of Science, 52(1), p.100306. <https://www.sciencedirect.com/science/article/pii/S2307410824001317>



4. **Dr. Parthasarathy S**, Assistant Professor (Plant Pathology) has published a research article entitled “Crude Antibiotics and Antifungal Metabolites from *Chaetomium globosum* Cg6 Suppress *Pythium aphanidermatum*, Causal Agent of Rhizome Rot of Turmeric”. Current Microbiology. 82(3):105.

<https://link.springer.com/article/10.1007/s00284-025-04076-6>

Current Microbiology (2025) 82:105  
<https://doi.org/10.1007/s00284-025-04076-6>



## Crude Antibiotics and Antifungal Metabolites from *Chaetomium globosum* Cg6 Suppress *Pythium aphanidermatum*, Causal Agent of Rhizome Rot of Turmeric

Jayaraman Rajalakshmi<sup>1</sup> · Sankarasubramanian Harish<sup>1</sup> · Lingan Rajendran<sup>1</sup> · Seethapathy Parthasarathy<sup>1,2</sup> · Kalaiselvan Saravanakumari<sup>1</sup> · Thiruvengadam Raguchander<sup>1</sup>

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5. **Dr. S. Thirukkumar**, Assistant Professor (Food Science), has published a research article entitled "Effect of Germinated Brown Rice Supplementation on Prediabetes Markers: A 120-Day Dietary Intervention Study in Selected Female Group" in *Rice Science*, 2025,32(1): 11–14. <https://doi.org/10.1016/j.rsci.2024.08.006>



Available online at [www.sciencedirect.com](http://www.sciencedirect.com)

ScienceDirect

*Rice Science*, 2025, 32(1): 11–14



Letter

## Effect of Germinated Brown Rice Supplementation on Prediabetes Markers: A 120-Day Dietary Intervention Study in Selected Female Groups

6. **Dr. Parthasarathy** and **Dr. S. Thirukkumar**, Assistant Professors, have published a review article entitled "Therapeutic and Environmental Potential of Mushrooms in Ancient and Modern Contexts: A Review" in *International Journal of Medicinal Mushrooms*, 2025, 27(4):1-19.

<https://www.dl.begellhouse.com/journals/708ae68d64b17c52,1f709ddd0ed1d7d6,549e6ccf153e6fb0.html>

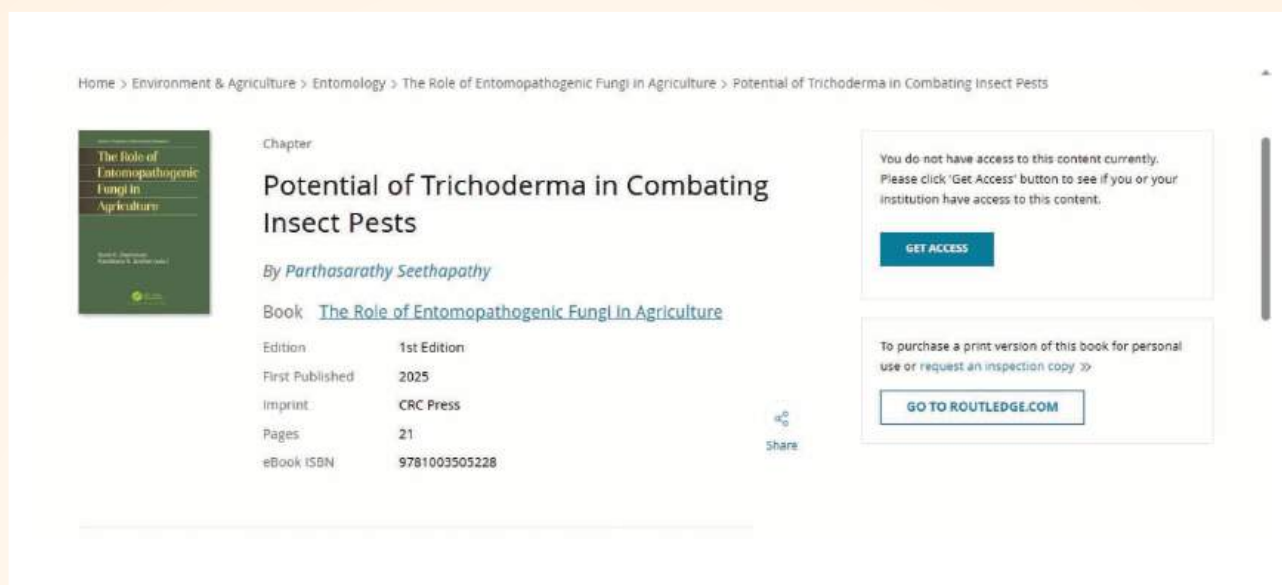
*International Journal of Medicinal Mushrooms*, 27(4):1–19 (2025)

## Therapeutic and Environmental Potential of Mushrooms in Ancient and Modern Contexts: A Review

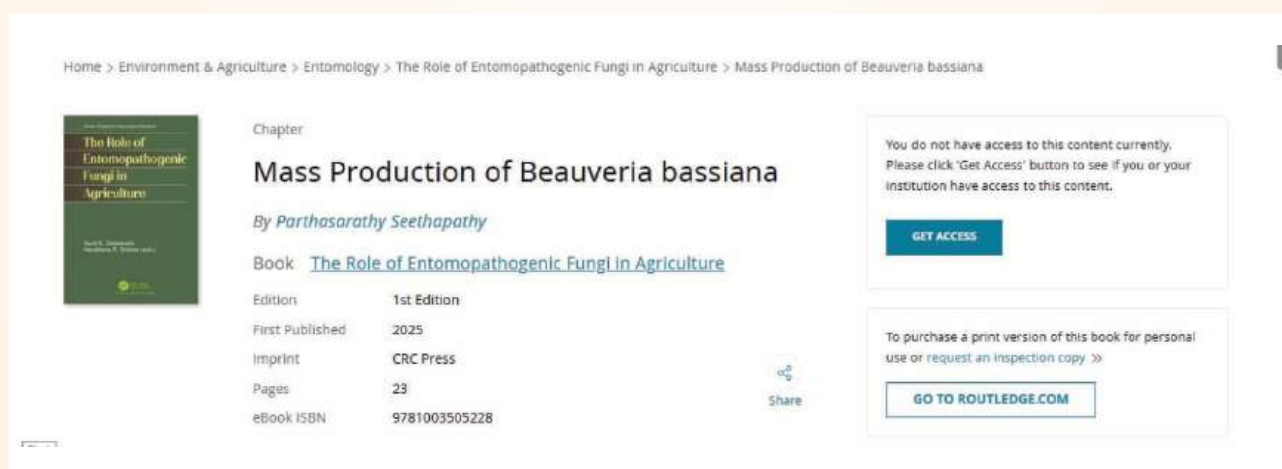
Parthasarathy Seethapathy,<sup>a</sup> Thirukkumar Subramani,<sup>b,\*</sup> Nadir Ayrilmis<sup>c,\*</sup> & Hrishikesh Patil<sup>d</sup>

<sup>a</sup>Department of Plant Pathology, Amrita School of Agricultural Sciences, Amrita Vishwa Vidyapeetham, Coimbatore 642109, India; <sup>b</sup>Department of Food Science, Amrita School of Agricultural Sciences, Amrita Vishwa Vidyapeetham, Coimbatore 642109, India; <sup>c</sup>Department of Wood Mechanics and Technology, Faculty of Forestry, Istanbul University-Cerrahpasa, Bahcekoy, Sariyer, 34473, Istanbul, Turkey; <sup>d</sup>ICAR-Central Institute of Agricultural Engineering, Regional Station, Coimbatore 641007, Tamil Nadu, India

7. **Dr. Parthasarathy S**, Assistant Professor (Plant Pathology) has published a book chapter entitled “Potential of Trichoderma in Combating Insect Pests. In The Role of Entomopathogenic Fungi in Agriculture” (pp. 162-182). CRC Press <https://www.taylorfrancis.com/chapters/edit/10.1201/9781003505228-9>



8. **Dr. Parthasarathy S**, Assistant Professor (Plant Pathology) has published a book chapter entitled “Mass Production of Beauveria bassiana. In The Role of Entomopathogenic Fungi in Agriculture” (pp. 298-320). CRC Press <https://www.taylorfrancis.com/chapters/edit/10.1201/9781003505228-14>



9. **Dr. Parthasarathy S**, Assistant Professor (Plant Pathology) and **Mr. Kannan M**, Project Fellow-ANRF-SURE, presented a conference paper titled "Mobile Application for Early Detection of Dolichos Yellow Mosaic Virus in Lablab-Bean Using Deep Learning and Pre-Trained CNN Models" as a part of ANRF-SURE Research Project. at the IEEE International Conference on Emerging Technologies and Applications 2025 (IEEE MPSec ICETA 2025) is a flagship conference of the IEEE Madhya Pradesh Section Chapter (IEEE Conference number #64837) held on 21-23 February, 2025 at ABV-Indian Institute of Information Technology & Management, Gwalior, Madhya Pradesh.



10. **Dr. K. Murugasridevi**, Assistant Professor (Agricultural Entomology) has participated and presented a research paper in "International Conference on One Health Perspectives in Global Plant Protection Research 2025" conducted by Tamil Nadu Agricultural University, Coimbatore from February 19-21, 2025 and secured the "Best Oral Presentation Award" in the event.



## IV. ASA Students' Sports Achievements

1. **Ms. Aswadeepthi S.** (2022 batch), **Ms. Sadhvikha S.** (2022 batch), **Ms. V. Pavana** (2023 batch), and **Ms. Neeraja K. S.** (2023 batch) were selected to represent the Amrita Vishwa Vidyapeetham Women's Volleyball Team in the All India/South Zone Inter-University Women's Volleyball Tournament, held at Jeppiaar University, Chengalpattu, from January 7 to 11, 2025.



2. **Mr. Pratheek R. S.** (2021 batch) and **Mr. Miriyampalli J S V Raghu Sathvik** (2021 batch) were selected to represent the Amrita Vishwa Vidyapeetham Cricket Team and participated in the All India/South Zone Inter-University Tournament held at the University of Madras, Chennai, from January 16 to 21, 2025.



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