J P Nagar, Arasampalayam, Coimbatore, Tamil Nadu - 642 109.

ASA BIMONTHLY E-NEWSLETTER

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"When you have love and faith, alertness in all your actions will automatically follow".

Amma, Sri Mata Amritanandamayi Devi

Chancellor, Amrita Vishwa Vidyapeetham

I. STUDENTS' ACTIVITIES

1. Crop Cafeteria Establishment

Second-year (2020 batch) students were engaged in crop cafeteria establishment as part of the course 19AGR212-Crop Production Technology – II (Rabi crops). The entire work was done by students, starting from field measurement, layout, and sowing, under the guidance of the course teacher Dr. M. Yasodha, Assistant Professor (Agronomy). Approximately 30 different crops were planted, and each student was allotted to take care of two crops.



2. Visit to TNAU and State Department of Agriculture

As part of the course 19AEX112-Fundamentals of Agricultural Extension Education, first-year students (2021 batch) visited the Educational Media Centre (EMC) and Community Radio Station (CRS) at Tamil Nadu Agricultural University on July 6, 2022 (Forenoon session) to learn about the functional mechanisms and their role in agricultural technology transfer. The session was handled by Dr. R. Sasikala, Assistant Professor (Agricultural Journalism), DoEE, TNAU.

The students visited the Joint Directorate of Agriculture office in the afternoon session, and the session was taken by Mr. Rajamohan, Assistant Director of Agriculture. Through this visit, students were exposed to various testing labs (soil, seed, and fertilizer) and learned about the State Department of Agriculture's organizational setup and agricultural schemes functioning in the Coimbatore District of Tamil Nadu. The visit was organized and facilitated by the course teacher, Dr. E. Sathyapriya, Assistant Professor (Agricultural Extension).









3. Visit to Agri Intex 2022

Visits to agro-industrial facilities and exhibitions are integral to students' education. Our college periodically organizes exposure visits for all students to interact consistently with current trends in agriculture and focus on leading agro-companies. It will assist students in tailoring their understanding and knowledge of industrial perspectives. Third-year students (2019 batch) visited over 400 exhibitors, 750 booths, and 300 product categories in the 20th edition of India's Prime Agricultural Trade Fair, AGRI INTEX 2022, at the CODISSIA Trade Fair Complex in Coimbatore on 18 July 2022. This visit inspired the students to understand the developments and pursue their career opportunities in the high-tech industrial sectors. Dr. V.S. Manivasagam, Dr. Parthasarathy S, Dr. Priya R and Ms. Aswani Sureshbabu T facilitated this exposure visit.



4. Visit to Farmers association and NGO

First-year students (2021 batch) visited the Siruvani Vizhuthugal NGO at Madavarayapuram, Coimbatore, on 6 August 2022, as part of the course 19AEX112-Fundamentals of Agricultural Extension Education. In the forenoon session, the farmers' representatives shared their farming experience with the students and motivated them to become entrepreneurs, followed by Dr. Ramkumar, Director, Siruvani vizhuthugal NGO, who explained NGO activities. The students learned about real-time farming through farmers' speeches and learned about the grassroots institution's role in agricultural development. The visit was organized and facilitated by the course teacher, Dr. E. Sathyapriya, Assistant Professor (Agricultural Extension).



5. Visit to Food Corporation of India



Second year (2020 batch) students visited Food Corporation of India (FCI), Peelamedu, Coimbatore, on 18 August 2022 as part of the course 19AEC212 - Agricultural Marketing, Trade, and Prices to learn more about the roles, operations, and aims of FCI and its involvement in warehousing. Mr. Janaki Raman, Manager, highlighted the FCI operations and their significance to the students during the visit. This visit organized by course teacher, Dr. P. Naveen Kumar, Assistant Professor (Agricultural Economics) and facilitated by Dr. S. Thirukumar and Dr. E. Sathyapriya.

6. Visit to Aavin and Food Testing Laboratory

Third-year students (2019 batch) visited the Aavin Milk Unit and Sri Sakthi Food Testing Laboratory (Funded by MoFPI) in Coimbatore on 22.08.2022 (60 nos.) and 23.08.2022 (57 nos.) respectively, as part of the 19FSN313-Food Safety and Standards and 19FSN312-Principles of Food Science and Nutrition courses. This visit imparted practical knowledge about milk processing techniques, processing techniques of milk-based products, manufacturing process control, hygienic and safety regulations, and storage practices. From the visit, students gained practical knowledge on food safety principles, microbial analytical techniques, wet chemistry analysis methods and instrumentation details, heavy metal analysis techniques using ICP-OES, and international certification procedures. This visit was organized by the course teacher Dr. S. Thirukkumar, Assistant Professor (Food Science) and facilitated Dr. P. Naveen Kumar and Dr. Vinodhini J.





7. Vermicompost Production

As part of the 19AGR317- Principles of Organic Farming course, third-year students (2019 batch) received handson experience on vermicompost production and also learned about the role of vermicompost and its importance in organic farming under the guidance of Dr. M. Yasodha, Assistant Professor (Agronomy).



8. Preparation of Organic Solutions

Organic liquid formulations have multiple uses and play an important role in the growth and development of plants, disease, and insect control, especially in organic farming. Dasagavya is an organic solution prepared from ten products in the form of panchagavya and certain plant extracts. As part of the course 19AGR317– Principles of Organic farming, third-year students (2019 batch) get hands-on experience on dasagavya preparation under the guidance of Dr. M. Yasodha, Assistant Professor (Agronomy).



II. COLLEGE EVENTS

1. Thalasseri Farmers Visit ASA and Ettimadai Farm

Thalasseri farmers (42 Nos.) visited Amrita Vishwa Vidyapeetham, Coimbatore campus, on 5 July 2022 as part of the ATMA program. During the visit, farmers were introduced to vegetable gardens where brinjal, okra, yam, etc., were grown organically. Further, they were briefed about a collection of indigenous varieties of mango grown near the vegetable garden. And they were exposed to poultry and cow sheds, and the usage of cow dung and cow urine in sustainable farming. Then the farmers were given an overview of Azolla cultivation and their uses as biofertilizer and poultry feed by Dr.Iniyakumar M, Assistant Professor (Agricultural Microbiology). After this, farmers visited the third-year students' crop production field, interacted with students, and shared their knowledge.



The next part of the visit was to a rainwater harvesting pond of 95 liters capacity. A dual media filter had been installed in the pond to combat the algal growth in the rainwater harvesting pond. During the Sewage Treatment Plant (STP) visit, farmers learned how to recycle 10 lakh liters of water and reused for gardening activities. The farmers were then familiarized to a mechanical coconut de-husker and nursery unit.

Farmers were taken to the Amrita School of Agriculture campus at Arasampalayam to see the meteorological unit. Dr. Manivasagam V S briefly explained all the functions of the unit. All the labs were explained by respective lab custodians to farmers. Further, a seminar on best coconut management practices for achieving high yield was delivered by Dr. Sivasabari K, Dr. Parthsarathy S and Dr. Murugasridevi K. At the end of the session, Dr. Sudheesh Manalil, Principal, ASA, shared his knowledge with the farmers for their betterment of livelihood. Finally, feedback was collected from them.





Thalasseri Farmers Visit at Amrita Vishwa Vidhyapeetham









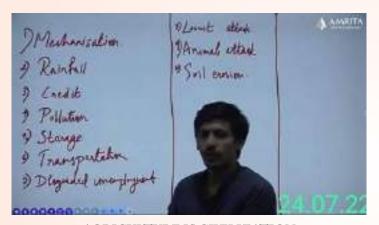


2. Career Development Activity

The Career Development Committee of ASA is making a special effort to ensure students' competence in career-related exams. The committee organized a "Technical Review for Exam-Oriented Resource Collection for Students" session every Thursday. Third-year students (2019 batch) have presented their resource collections to committee members and students. Dr. Parthasarathy S and Dr. Aravind J, Coordinators of the Career Development Committee, facilitated the event.



3. ASA Civil Service Foundation Course



AGRICULTURE IS CIVILIZATION

India has a great history of agrarian culture. Agriculture is the soul of rural India and plays a vital role in the Indian economy, and is considered the backbone of the economic system for developing countries. ASA Civil Service aspirants were taught on the history of agriculture in India, agriculture cultivation, irrigation practices, government schemes, policies, and acts portion of current affairs research and development, as well as various issues regarding Indian Agriculture.

4. New Fitness Centre at the Girls Hostel

On 19 July 2022, the new fitness center at girls' hostel was inaugurated by Dr. Sudheesh Manalil, Principal, Head Research and PGP Chair, and Dr. N. Udaya Shankar, Campus Director, for the students mental and physical health.



5. Amritholsavam'22

Amritholsavam'22, a cultural event was organized by the cultural committee at ASA on 11 &12 August, 2022. The first day of the cultural programme began with a prayer song to invoke the blessings of the almighty. The welcome address was given by Dr. Marthandan V, Assistant Professor (SST). An introductory remark was delivered by Dr. Sudheesh Manalil, Principal, Head Research, and PGP Chair, followed by lighting the lamp by the dignitaries. Chief Guest Dr. A.H. Prakash, Director, Central Institute for Cotton Research, Coimbatore, discussed the importance of cultural events in colleges. A special address was by the Campus Director, Dr. N. Udaya Shankar. Felicitation was given by the cultural coordinator, Dr. Jidhu Vaishnavi S, and vote of thanks was given by Dr. Vanitha V, Assistant Professor (English).

The first day of Amirtholsavam'22 began with on-stage events like Amma's Bhajan, light music, carnatic music, solo song, group song, aerobics, and drama in the auditorium. Off-stage events such as vegetable carving, worth out of waste, essay writing, and poem writing competitions were held in Ramanujam hall and classrooms. Further, the guest musical performance was given by Dr. Pushparajan M., Assistant Professor, Dept. Mechanical Engineering, Amrita Vishwa Vidhyapeetham, on 11 August 2022 evening. It made the audience feel the warmth and gave a delightful ambience till the evening. The second day of cultural celebration gleamed with the on-stage events like solo dance and group dance, and offstage events like photography, reels, poster designing, short film, and meme creation. And to commemorate World Elephant Day 2022, Mr. Sundar, Wild Life Photographer, Amrita Vishwa Vidyapeetham, gave a special address to spread awareness about the endangered elephants. Eventually, the programme came to an end with resounding success.



Amritholsavam'22













6. Annual Sports Day Events 2022

The Annual Sports Day Events-2022 was organized by the Department of Physical Education at Amrita School of Agricultural Sciences on July 26, 2022. The event was inaugurated by the Principal, Dr. Sudheesh Manalil, with the felicitation of the Campus Director, Dr. N. Udaya Shankar. Students were grouped under the houses namely Agni, Vayu, Prithvi, and Akash. Intramural tournaments were conducted between these houses, and students participated enthusiastically.

Tournaments were organized in eight disciplines for boys and eight disciplines for girls. In the case of athletics, 5 track and 4 field events were organized. Besides this, staff events were also conducted. It included cricket, badminton, basketball shooting, throw ball, volleyball, and table tennis. This event was organized from 26 July to 3 August 2022 by ASA Physical Educators Mr. Karthik Raja V and Ms. Mahalakshmi D.













ANNUAL SPORTS DAY EVENTS 2022







7. 75th Independence Day Celebrations at ASA

ASA celebrated the 75th Independence Day on 15 August 2022. Students, faculty, and staff from ASA celebrated the event in a grand manner. In honour of Independence Day, the Campus Director Dr. N. Udaya Shankar, hosted the National Flag and gave speech. This event was organized by Mr. V. Karthik Raja, Physical Education Director.



8. AMRITA Hospital Inauguration Seva opportunities and student internship at Faridabad, Haryana

The Honorable Prime Minister of India inaugurated AMRITA hospital, one of India's biggest private hospitals, with 2,600-bed in the divine presence of AMMA on 22 August 2022. Amrita hospital in Faridabad is equipped with cutting-edge technology, including a centralized fully-automated laboratory, a major contributor to healthcare infrastructure in the National Capital Region (NCR). Prior to Inauguration, AYUDH has invited student volunteers from across the campuses of Amrita Vishwa Vidyapeetham to perform the Seva programme for two weeks from 14 – 24 August 2022 at Faridabad, Harayana. From the School of Agricultural Sciences, 20 students from 2020 batch have participated along with Coordinators Dr. Dhivyapriya D. and Dr. Sivasabari K.

During the two weeks programme, many Seva activities such as tree planting, celebrating 75th Independence day by honoring our soldiers, cleaning, cooking, vegetable cutting, and serving food were held, and our students actively participated in the Seva activities. By

participating in these activities, students learned the importance of team management and the values of life, including positivity, love and compassion, sacrifice, serving attitude, and concern for society and the environment. Besides the Seva activities, two weeks Internship programme was held, where students took part in Swachh Bharat, group activities, yoga, inspirational sessions, and service projects in Faridabad. Student volunteers were most fortunate to be under the guiding force of the beloved AMMA for two weeks. Student volunteers also had a chance to witness the medical facilities being developed by AMRITA hospitals.

On the day of the inauguration, Crowd Control Management, media support inside the programme venue, and IT seva were performed by the students. After the inauguration, students visited the lotus temple, Akshardham temple, Qutub Minar, and India Gate on a one-day trip to Delhi. Students felt it was a great opportunity to learn and do Seva in the presence of AMMA.



III. RESEARCH AND DEVELOPMENT

1. ASA Principal Visited Union Minister of Agriculture and Farmers Welfare Office, New Delhi

Dr. Sudheesh Manalil, Principal, Head Research, and PGP Chair, visited Hon'ble Shri. Narendra Singh Tomar, Union Minister of Agriculture and Farmers Welfare, GOI, at his office in New Delhi and invite him for the Faridabad Amrita Hospital inauguration. During the meeting Dr. Sudheesh Manalil, explained about the programme objectives and activities.



2. ASA Participation in Trichy Educational Fair – 2022

The Amrita School of Agricultural Sciences took part in the Trichy Educational Fair on 2nd July 2022, at the Amrita Vidyalayam, Trichy campus, which was sponsored by Amrita Vishwa Vidyapeetham and The Hindu Daily (Tamil edition). Through this event aspiring students and their parents received live, individualized guidance from Dr. Sivaraj P, Assistant Professor (Agricultural Extension), and Mr. Maneesh S.V., a third-year student from ASA



3. ASA Participation in Edu-Conclave 2022

The School of Agricultural Sciences participated in The Hindu Daily's Chennai Edu-Conclave on 9-10 July 2022, at Santhome Auditorium. Aspiring students and their parents were provided with live, one-on-one guidance about agricultural career opportunities and the scope of the program. Dr. Parthasarathy S. and Mr. Mahesh S.V. participated and guided aspirants during this programme.



4. Visiting Sadivayal Adopted Village

Through the assistance of Amrita Management, the Amrita School of Agricultural Sciences adopted a tribal village in Sadivayal. On 17 and 22 August 2022, team from ASA, Dr. Sivaraj P, Dr. V.S. Manivasagam and Mr. E. Manojkumar visited the tribal village of Sadivayal. Discussions on the next growing season and crop selection will be helpful for students in the E4LIFE International Ph.D. Programme in Sustainable Development.





IV. PUBLICATIONS

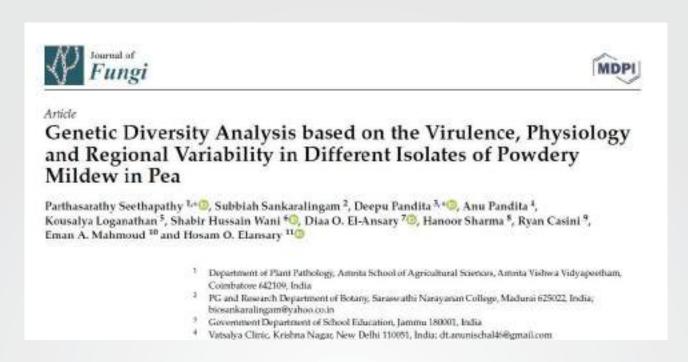
1. **Dr. M. Iniyakumar**, Assistant Professor (Agricultural Microbiology), has published a research article entitled "A new Enzolv process for simultaneous delignification and lignin-derived chemical production from the woody biomass of Melia dubia. Biomass Conv. Bioref. (2022). https://doi.org/10.1007/s13399-022-03084-x



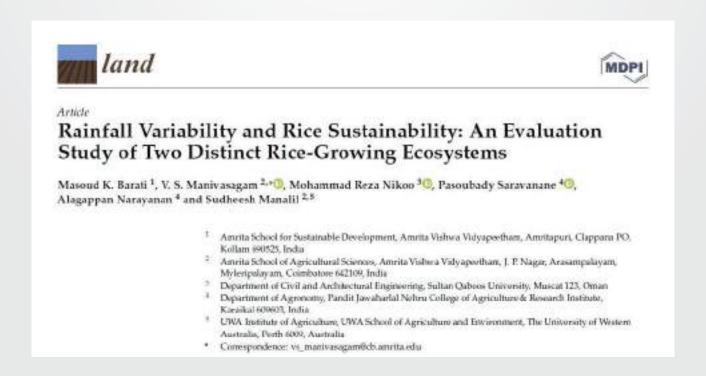
2. **Ms. Soundharya S, Ms. Gowryparvathy B, Ms. Athulya Rajasekharan** and **Ms. Vaishnavi P,** third-year students, **Dr. Sivaraj P**, Assistant Professor (Agricultural Extension), **Dr. Manivasagam V S**, Assistant Professor (Agriculture Informatics), and **Dr. Sudheesh Manalil**, Principal and Head Research have published a research article entitled "Evaluating the Expediency of Smartphone Applications for Indian Farmers and Other Stakeholders" AgriEngineering (MDPI), 2022. https://doi.org/10.3390/agriengineering4030042



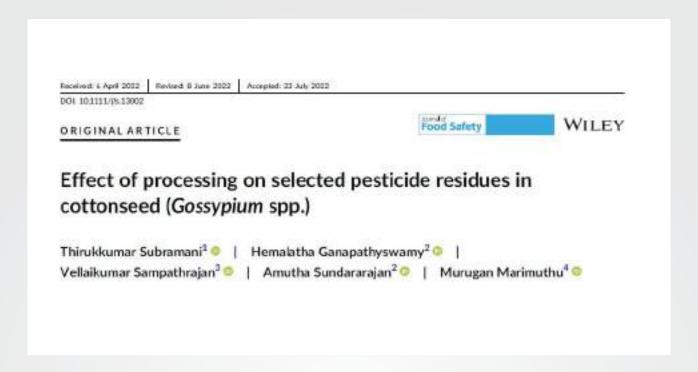
3. **Dr. Parthasarathy S**, Assistant Professor (Plant Pathology), has published a book chapter entitled "Genetic Diversity Analysis based on the Virulence, Physiology and Regional Variability in Different Isolates of Powdery Mildew in Pea". Journal of Fungi. 2022; 8(8):798. https://doi.org/10.3390/jof8080798



4. **Mr. Masoud Barati**, Ph.D. scholar, **Dr. Manivasagam V S**, Assistant Professor (Agriculture Informatics), and **Dr. Sudheesh Manalil**, Principal and Head Research, have published a research article entitled "Rainfall Variability and Rice Sustainability: An Evaluation Study of Two Distinct Rice-Growing Ecosystems" Land (MDPI), 2022. https://doi.org/10.3390/land11081242



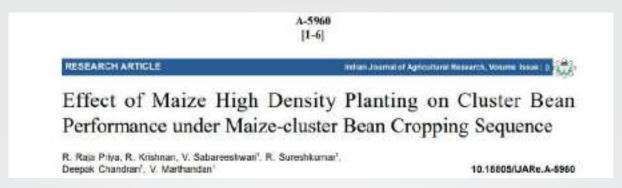
5. **Dr. S. Thirukkumar**, Assistant Professor (Food Science), has published a research article entitled "Effect of processing on selected pesticide residues in cottonseed (Gossypium spp.)." Journal of Food Safety, pp.1-10. https://doi.org/10.1111/jfs.13002



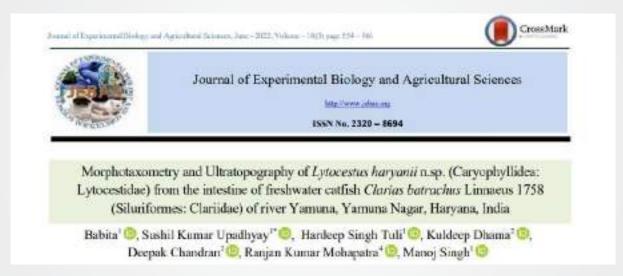
6. **Dr. Dhivyapriya D**, Assistant Professor (GPB), has published a research article entitled "Agronomic, breeding, and biotechnological interventions to mitigate heavy metal toxicity problems in agriculture, Journal of Agriculture and Food Research (2022). https://doi.org/10.1016/j.jafr.2022.100374



7. **Dr. Sabareeshwari V, Dr. Sureshkumar R, Dr. Deepak Chandran** and **Dr. Marthandan V**, Assistant Professors, have published a research article entitled "Effect of maize high-density planting on cluster bean performance under maize-cluster bean cropping sequence". Indian Journal of Agricultural Research. 56(3): 1-6. https://doi.org/10.18805/IJARe.A-5960



8. **Dr. Deepak Chandran**, Assistant Professor (VS & AH), has published a research article entitled "Morphotaxometry and ultratopography of Lytocestus haryanii n.sp. (Caryophyllidea: Lytocestidae) from the intestine of freshwater catfish Clarias batrachus Linnaeus 1758 (Siluriformes: Clariidae) of river Yamuna, Yamuna Nagar, Haryana, India". Journal of Experimental Biology and Agricultural Sciences. 10(3): 554-566. http://dx.doi.org/10.18006/2022



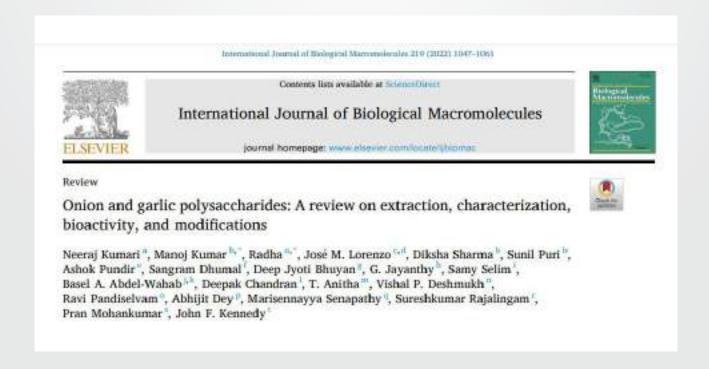
9. **Dr. Deepak Chandran**, Assistant Professor (VS & AH), has published a review article entitled "Fucoxanthin: A promising phytochemical on diverse pharmacological targets". Frontiers in Pharmacology. 13: 929442. https://doi.org/10.3389/fphar.2022.929442



10. **Dr. Deepak Chandran**, Assistant Professor (VS & AH), has published a review article entitled "Cruciferous vegetables as a treasure of functional foods bioactive compounds: Targeting p53 family in gastrointestinal tract and associated cancers". Frontiers in Nutrition. 9: 951935. https://doi.org/10.3389/fnut.2022.951935



11. **Dr. Deepak Chandran** and **Dr. Sureshkumar R**, Assistant Professors, have published a review article entitled "Onion and garlic polysaccharides: A review on extraction, characterization, bioactivity, and modifications". Elsevier - International Journal of Biological Macromolecules. 219: 1047-1061. https://doi.org/10.1016/j.ijbiomac.2022.07.163



12. **Dr. Deepak Chandran**, Assistant Professor (VS & AH), has published a review article entitled "Diallyl disulfide: A bioactive garlic compound with anticancer potential". Frontiers in Pharmacology. 13: 943967. http://dx.doi.org/10.3389/fphar.2022.943967



13. **Dr. Deepak Chandran**, Assistant Professor (VS & AH), has published a review article entitled "Tacrine derivatives in neurological disorders: Focus on molecular mechanisms and neurotherapeutic potential". Hindawi – Oxidative Medicine and Cellular Longevity. Vol. 2022, Article ID 7252882, 22 pages.



14. **Dr. Deepak Chandran**, Assistant Professor (VS & AH), has published a correspondence article entitled "Hand-foot-and-mouth disease (HFMD) in children. Current scenario, and advancements in developing vaccines and therapeutics: An update". Elsevier – International Journal of Surgery. 105(2022): 106834p. https://doi.org/10.1016/j.ijsu.2022.106834



15. **Dr. Deepak Chandran**, Assistant Professor (VS & AH), has published a review article entitled "Clinical management, antiviral drugs and immunotherapeutics for treating monkeypox. An update on current knowledge and futuristic prospects". Elsevier – International Journal of Surgery. 105(2022): 106847p. https://doi.org/10.1016/j.ijsu.2022.106847



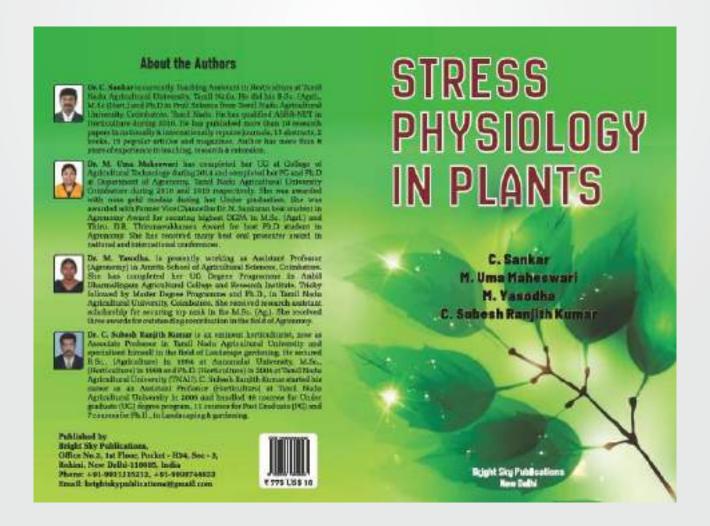
16. **Dr. Deepak Chandran**, Assistant Professor (VS & AH), has published a review article entitled "Marburg virus disease: A mini-review". Journal of Experimental Biology and Agricultural Sciences. 10(4): 689-696. http://dx.doi.org/10.18006/2022.10(4).689.696



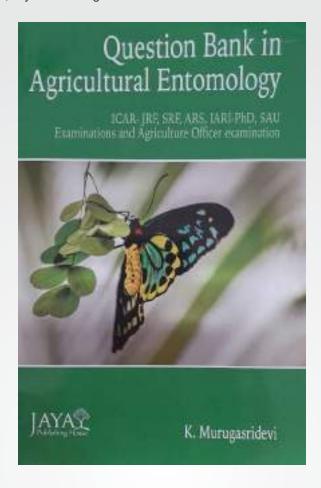
17. **Dr. Deepak Chandran**, Assistant Professor (VS & AH), has published a review article entitled "Monkeypox: An update on current knowledge and research advances". Journal of Experimental Biology and Agricultural Sciences. 10(4): 679-688. http://dx.doi.org/10.18006/2022.10(4).679.688



18. **Dr. Yasodha M**, Assistant Professor (Agronomy), has published a textbook entitled "STRESS PHYSIOLOGY IN PLANTS" Bright Sky Publications, New Delhi, ISBN: 9789392804083.



19. **Dr. K. Murugasridevi**, Assistant Professor (Agricultural Entomology), has published a textbook entitled "Question Bank in Agricultural Entomology", Jaya Publishing house. ISBN: 978-93-92851-43-8



20. **Dr. M. Iniyakumar**, Assistant Professor (Agricultural Microbiology), has published a Book Chapter entitled "Overview on Advanced Microalgae-Based Sustainable Biofuel Generation and Its Life Cycle Assessment". In: Verma, P. (eds) Microalgae: Next-generation Feedstock for Biorefineries. Clean Energy Production Technologies. Springer, Singapore. https://doi.org/10.1007/978-981-19-0680-0_3



21. **Dr. Parthasarathy S**, Assistant Professor (Plant Pathology), has published a book chapter entitled "Major Diseases of Cultivated Indian Medicinal Plants: Overview and Management Strategies. In: Máthé, Á., Khan, I.A. (eds) Medicinal and Aromatic Plants of India Vol. 1. Medicinal and Aromatic Plants of the World, Vol 8. Springer, Cham. https://doi.org/10.1007/978-3-030-98701-5 10; https://link.springer.com/chapter/10.1007/978-3-030-98701-5 10



Thiribhuvanamala Gurudevan, Parthasarathy Seethapathy & Swarnakumari Narayanan

Chapter | First Online: 08 July 2022

22. **Dr. M. Iniyakumar**, Assistant Professor (Agricultural Microbiology), has published a Book Chapter entitled "Microalgae Cell Wall Disruption and Biocomponents Fractionation for Fuel Conversion". In: Verma, P. (eds) Micro-algae: Next-generation Feedstock for Biorefineries. Clean Energy Production Technologies. Springer, Singapore. https://doi.org/10.1007/978-981-19-0680-0_4



23. **Dr. Yasodha M**, Assistant Professor (Agronomy), has published a chapter entitled "NANOFERTILIZERS" In: 'Agriculture Science: Research and Reviews. In: Dr. Parashurama T.R., Dr. Y. Linthoingambi Devi, Mr.Asif Mohi Ud Din Rather, Mr. Sachin Kumar Yadav (1st ed.). Bhumi publishing. 2022. Volume VI. pp: 34-48. ISBN: 978-93-91768-17-1.

NANO FERTILIZERS

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³Department of Agronomy, University of Agricultural sciences,

Dharwad, Karnataka, India -580005

24. **Dr. Parthasarathy S**, Assistant Professor (Plant Pathology), has published a conference paper entitled "The Plant Disease Detection Using CNN and Deep Learning Techniques Merged with the Concepts of Machine Learning". IEEE Xplore Conference (ICACITE) Proceedings 2022, pp. 1547-1551, DOI: 10.1109/ICACITE53722.2022.9823921, https://ieeexplore.ieee.org/document/9823921



V. AWARDS AND ACHIVEMENTS



1. **Dr. Sivasabari K**, Assistant Professor (Soil Science), has received "Young Scientist Award in Soil Science and Agricultural Chemistry" during the 6th International Conference on Current Issues in Agriculture, Biological & Applied Sciences for Sustainable Development (CIABASSD).

2. **Dr. Sathyapriya E**, Assistant Professor (Agricultural Extension), has received "**BEST THESIS AWARD**" during the 1st International Conference on Global Initiatives in Research, Innovation and Sustainable Development of Agriculture and Allied Sciences.



ASA e Newsletter Committee

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