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



# STUDENTS' ACTIVITIES

#### 1. Landscaping by the Students

As part of the course 19HOR301- Landscaping, taught by Dr. S. Kumaresan, Assistant Professor (Horticulture), the students of third year (2020 batch) created a formal style of garden at ASA hostel premises and involved in the propagation of ornamental trees, shrubs and annual flower crops.



# 2. Visit to Institute of Forest Genetics and Tree Breeding, Coimbatore

First-year students (2022 batch) visited the Institute of Forest Genetics & Tree Breeding on 3<sup>rd</sup> February 2023, as part of the course 19FOR101-Introduction to Forestry. From this visit, students learned about clonal propagation techniques of forest tree species and visited a clonal nursery, a tree seedling nursery, and the Gass Forest Museum. This visit was organized by the course teacher, Dr. V.S. Ramachandran, Assistant Professor (Forestry).



#### 3. Exposure Visit to TNAU, Coimbatore

The students of the 2020 batch visited TNAU on 10<sup>th</sup> February 2023. In the morning session, students visited the Department of Rice to learn the breeding methods, advanced crop management and to familiarise the major pest and disease symptoms. Dr. Manonmani, S, Professor and Head, explained the history of the rice crop, objectives of the institute and emasculation techniques. She also explained the features of recently released varieties from TNAU. Students were exposed to the various emasculation methods done in the

field. They got an opportunity to visit the Rice Museum and wild rice park, which was facilitated by Dr. Manonmani K, Assistant Professor, ASA. Later, students visited the Department of Pulses and Oilseeds and got exposure on emasculation techniques and varieties released from the respective departments. The Onfield training on emasculation techniques for Pulses breeding and oilseed breeding was given by Dr. S. Anandhi and by Dr. R. Sasikala, respectively.

The entrepreneurship

development training was given to the students from Directorate on Agribusiness Development (ABD) by Dr. E. Somasundaram, Director (ABD). Students learned about the role of ABD towards skill development in younger generation. They got an opportunity to visit the ABD museum associated with product development from TNAU, which was facilitated by Dr. Sathyapriya E, Assistant Professor, ASA.

In the noon, students visited the Department of Millets and Cotton to learn about the breeding aspects of the

major Kharif crops. The On-field training on emasculation techniques for Millet breeding was given by Dr. K. Iyyanar and hands-on training on Cotton breeding by Dr. S. Premalatha. The importance of millets and their distinguishing features were demonstrated with live samples by Dr. R. Chandrakala.

Further, students were

involved in identifying major diseases and pests in the Kharif crops. Dr. K. Kamesh Krishnamoorthy and Dr. Aravind J, Assistant Professors, ASA, facilitated the field visit to identify and collected diseases and pests and explained the distinguishable features and management methods in major Kharif crops.

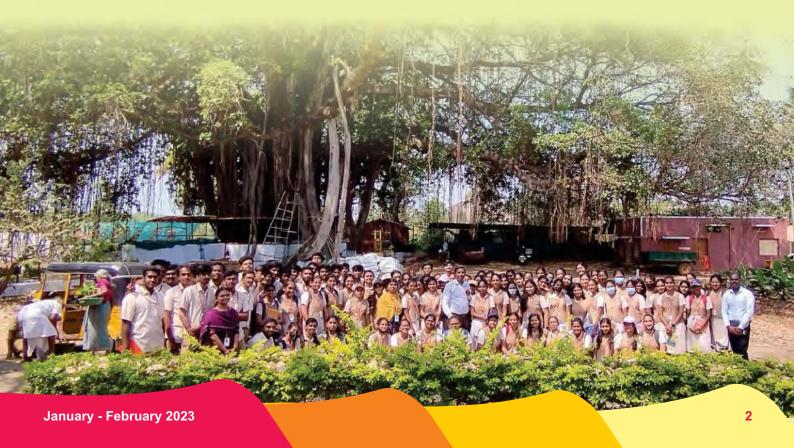






#### 4. Exposure Visit to Horticulture Orchard

Third-year students (2020 batch) visited the Horticulture Orchard at Tamil Nadu Agricultural University, Coimbatore, on 24<sup>th</sup> February 2023, as part of the course 19HOR101- Fundamentals of Horticulture handled by Dr. S. Kumaresan, Assistant Professor (Horticulture), to gain exposure about orchard layout, propagation techniques, orchard maintenance, hydroponics, tissue culture laboratory and nursery. Students were actively involved in propagation tasks like grafting.



#### 5. Crop Production by 2020 Batch Students

Third-year students (2020 batch) were involved in crop production in a 20-acre area of the Ettimadai campus for the course 19AGR301-Practical Crop Production - I (Kharif Crops), under the guidance of course teacher Dr. Janarthanan P, Assistant Professor (Agronomy). The area was divided into three portions for 3 practical batches, A, B and C. Three different crops were sown, including soybean (Batch A), black gram (Batch B), and sunflower (Batch C).













The students used manual and power tiller seed drill methods for sowing. The field was irrigated using a sprinkler system; students used the broadcasting method for nutrient management, identified the weed species in the crop production field, and also identified the symptoms of pests and diseases in the field.

#### 6. (a) Azolla Mass Multiplication at ASA Campus

As part of the course 19AGM301- Biopesticides and Biofertilizers, handled by Dr. Iniyakymar M, Assistant Professor (Agricultural Microbiology), the students of the third year (2020 batch), had mass multiplied Azolla in ASA campus. Initially, the Azolla unit was filled with sieved garden soil 100 kgs and mixed with an equal amount of fresh cow dung. The soil and cow dung were mixed with water, allowing three days to stagnate. After three days, one kg of fresh Azolla (Azolla pinnata) was sprinkled in the unit and mixed with water. A mat of Azolla had been grown in 10 days covering the entire unit. The fresh biomass harvested was thoroughly washed and fed to duck and poultry on our campus. The mixing of Azolla and the water level were being monitored continuously.



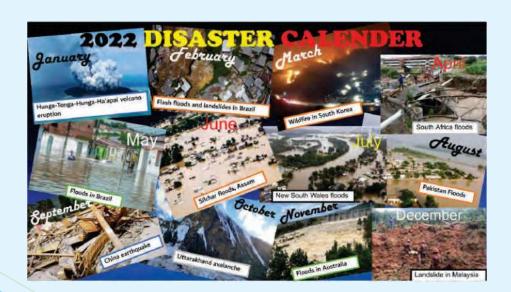
#### 6. (b) Composting of Coconut Wastes by Coir Board Technology

The students (2020 batch) followed an aerobic method of composting developed by Coir Board. A size of 11 × 2M (L×B) unit was prepared with bricks. Initially, a layer of approximately 100 kg of shredded coconut waste was spread and moistened. Next, urea 1 kg was spread on the shredded waste. Another layer of coconut waste was spread on top of it, and one bottle of decomposing culture Pith Plus (Pleurotus sp.) developed by Coir Board, Allapey, Kerala was spread and moistened. This method of layering (coconut wastes+ urea + coconut wastes+ Pith Plus) was repeated ten times and regularly watered to maintain 75% water holding capacity. Once a week, the pile was aerated by mixing it to hasten the composting process. After 30 days, the compost was used in the field.



#### 7. Disaster Calendar Created by Students

The second-year students (2021 batch) prepared a disaster calendar for the year 2022 for the course 19ENV201-Environmental Studies and Disaster Management by the course teacher Dr. Jidhu Vaishnavi S, Assistant Professor. The calendar was based on several disasters like earthquakes, heat waves, cold waves, tsunamis, etc., which happened each month worldwide. The calendar included disasters that occurred at international, national, and state levels disasters.



#### 8. Student READY- RAWE Programme

As part of the RAWE Village Attachment (1st January 2023–25th February 2023) programme, students were involved in various farmers need-based demonstrations and ICAR task force activities in their allotted village panchayats with community participation. The course teachers, Dr. Sudheesh Manalil, Dr. Sivaraj P., and Dr. Sathyapriya E, regularly monitored and evaluated students' activities in their respective villages. Also, third year students (2020 batch) of ASA participated the RAWE demonstration cum Task force activity with final year students and explored about how to organize the demonstration and farm meetings.

#### ARASAMPALAYAM PANCHAYAT GROUP STUDENTS' ACTIVITIES

















#### MYLERIPALAYAM PANCHAYAT GROUP STUDENTS' ACTIVITIES

















#### PANAPATTI PANCHAYAT GROUP STUDENTS' ACTIVITIES

















#### SOLAVAMPALAYAM PANCHAYAT GROUP STUDENTS' ACTIVITIES

















#### POTTAIANDIPURAMBU PANCHAYAT GROUP STUDENTS' ACTIVITIES

















#### SOKKANUR PANCHAYAT GROUP STUDENTS' ACTIVITIES

















#### VADASITHUR PANCHAYAT GROUP STUDENTS' ACTIVITIES

















#### NALLATIPALAYAM PANCHAYAT GROUP STUDENTS' ACTIVITIES















#### KULATHUPALAYAM PANCHAYAT GROUP STUDENTS' ACTIVITIES

















#### SIRUKALANDAI PANCHAYAT GROUP STUDENTS' ACTIVITIES

















# **COLLEGE EVENTS**

#### 1. Sensor Based Micro - Irrigation

The Skill Development Committee of the school organized a session on the topic Sensor Based Micro – Irrigation Techniques on 5<sup>th</sup> January 2023. The session began with the prayer song followed by the welcome address by Dr. Boopathi G, Assistant Professor (Agricultural Engineering). Later, the session was handed over to Chief Guest Mr. J. Pandari Nathan, Regional Head – Techno Commercial at Farmagain Agro Private Limited. He explained the basics of Precision Agriculture and importance of air-water balance in the soil. Ms. Keerthana Vijayan of 2019 batch ended the session by delivering the vote of thanks.



The morning session was followed by a visit in the afternoon, to an automated model farm at Udumalpet, which spread over an area of 29 acres. Students got on-field exposure on monitoring systems, fertigation units, device functioning status, Al cloud service, filters employed, and visual observation of the sensors installed. The economics of adopting such automation was also briefed to the students. The session was concluded with an expression of gratitude by Mr. Aakash Nathan of 2019 batch.



# 2. Seminar on Ayur Biotechnology- GreenDrug Development and Ocean SpongeInspired Sponge Mimetic Tubules

The Webinar Committee, NDLI club, and IQAC of ASA conducted a seminar on "Ayur Biotechnology-Green Drug Development and Ocean Sponge Inspired Sponge Mimetic Tubules" by Dr. Krishnaswami S Raja, Associate Professor, Department of Chemistry, College of Staten Island and Graduate Centre, City University of New York. The session was held on 11th January 2023. The introductory remarks were given by Dr. Sudheesh Manalil, Associate Dean, ASA. This seminar explained information on the production of Green Drugs using Curcuma longa (Turmeric). He emphasized the benefits of crops rich in Siddha and Ayurvedic property in traditional crops and medicines. Additionally, he defined the term "XENOHORMESIS," a biological principle, and described how environmentally stressed plants develop bioactive substances that can help animals that eat them resist stress and survive. The discovery of Quickclot -Combat Gauze led to the Hemmorhage arrest and wound healing due to its anticoagulant nature was explained by the speaker.



The speaker emphasized the numerous scientific foundations found in ancient writings like the Vedas and Upanishads. Humanity would gain much from learning this information, and Ayur Biotechnology, which has scientific evidence for each of its principles, will play a significant role in the development of many new drugs. Dr. Iniyakumar M and Dr. Dhivyapriya D, Assistant Professors, coordinated the session.

#### 3. Pongal Celebration 2023

Celebrating Pongal in agricultural college gives immense pleasure in honoring farmers for the successful harvest of crops like rice, sugarcane, turmeric, etc. ASA celebrated Pongal in a traditional manner with the participation of students from 2020, 2021, and 2022 batches. Students, Members of Faculty, and Staff wore traditional attire and graced the occasion. The entire campus wore a festive look with colourful Rangoli, decorated Pongal pots, sugarcanes to enhance the festive spirit. After the preparation, Pongal was kept in front of Amma's photo, and the pooja was performed to get the blessings of Amma. Later, as part of the Pongal celebration, fun games were conducted for the students to depict the significance of the Harvest Festival.



#### 4. NSS - National Science Day Celebration

In honour of National Science Day, ASA NSS Unit 6 celebrated National Science Day 2023. A special lecture on "Conservation of Biodiversity - A Botanical Survey of India Perspective" was given by Dr. M.U. Sharief, Scientist F & Head of Office on 28.02.2023. The programme commenced with lighting the lamp by the dignitaries. Welcome address was delivered by Dr. K. Murugasridevi, NSS Programme Officer, ASA. Dr. Sudheesh Manalil, Associate Dean, ASA, delivered the introductory remarks. Following this, the guest speaker Dr. M.U. Sharief addressed on conservation of Biodiversity. He inspired the audience with the story of Dr. E. K. Janakiammal, Iron lady of Indian Botany. He also focused on the cytogenetics and chromosomal atlas concept in plants. He insisted that exploration, documentation, and protection are the three pillars of biodiversity. It was a very good exposure to the students to know about cultural biodiversity which was centered about the tribal and indigenous knowledge about the flora. Also, he explained his specialization in Ethnobotany and shared his experiences in Andaman & Nicobar Islands and he elaborated his past experience with aboriginal tribes like, Great Anadamanese, Onges, Jarawas, Sentinelese, Shompens and Nicobarese. The guest interacted with the students after his lecture. Vote of thanks was delivered by Ms. Adhya AK of 2022 batch. The programme ended with the national anthem.



# **EXTENSION OUTREACH AND DEVELOPMENT**



#### 1. RAWE 2019 Batch Students Extension Outreach at the Community Level

As part of the RAWE programme, final year students conducted various need-based demonstrations (173 Nos.), selected ICAR task force activities (22 Nos.), news published in various periodicals (103 Nos), and delivered community radio talks (7 Nos.) and All India Radio programme (1 No.) during their village attachment part. The students served village panchayats in Kinathukadavu, Pollachi (North), and Madukkarai regions viz., Arasampalayam, Myleripalayam, Panapatti, Vadasithur, Nallattipalayam, Kulathupalayam, Sirukalandai, Solavampalayam, Pottayandipurambu, and Sokkanaur.













**January - February 2023** 

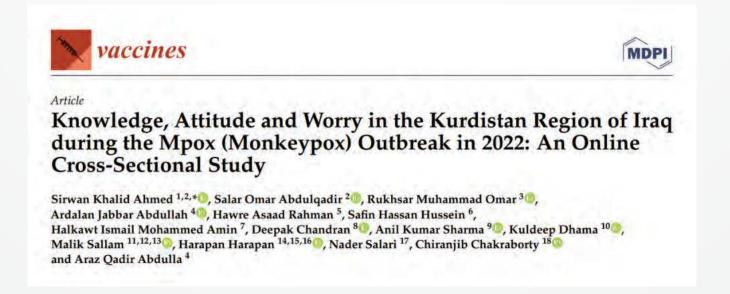
# **PUBLICATIONS**



 Dr. Manivasagam V S, Assistant Professor (Agriculture Informatics), has published a research article entitled "How Far Will Climate Change Affect Future Food Security? An Inquiry into the Irrigated Rice System of Peninsular India" Agriculture (MDPI), 2023. https://www.mdpi.com/2077-0472/13/3/551



Dr. Deepak Chandran, Assistant Professor (Veterinary Sciences and Animal Husbandry), has published a research
article entitled "Knowledge, attitude and worry in the Kurdistan region of Iraq during the Mpox (monkeypox) outbreak in
2022: An online cross-sectional study". Vaccines. https://doi.org/10.3390/vaccines11030610



3. **Dr. Deepak Chandran, Dr. Sureshkumar R**, and **Dr. Naveen Kumar P**, Assistant Professors, have published a review article entitled "Integrated management of Fusarium wilt disease of banana in Kerala, India." Vegetos. <a href="https://doi.org/10.1007/s42535-023-00576-7">https://doi.org/10.1007/s42535-023-00576-7</a>



4. **Dr. Deepak Chandran**, Assistant Professor (Veterinary Sciences and Animal Husbandry), has published a research article entitled "Antinociceptive, anti-inflammatory, and antioxidant studies on Withania somnifera (L.) Dunal." Pakistan Journal of Botany. http://dx.doi.org/10.30848/PJB2023-4(36)

Pak. J. Bot., 55(4): DOI: http://dx.doi.org/10.30848/PJB2023-4(36)

#### ANTINOCICEPTIVE, ANTI-INFLAMMATORY, AND ANTIOXIDANT STUDIES ON WITHANIA SOMNIFERA (L.) DUNAL

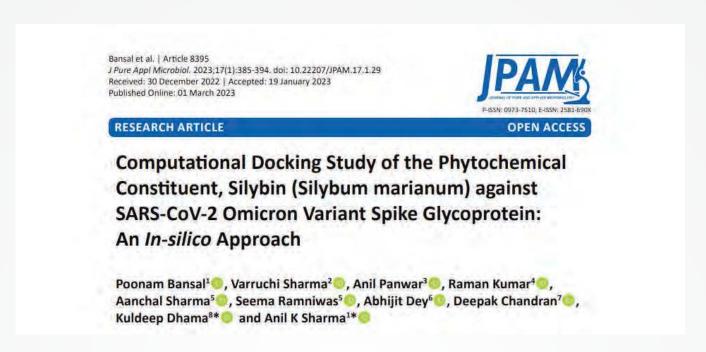
NAVID BAGHALPOUR<sup>1</sup>, JAVAD MAHROO BAKHTIYARI<sup>1</sup>, ZAINAB M. ALMARHOON<sup>2</sup>, DEEPAK CHANDRAN<sup>3</sup>, AFNAN KHAN SHINWARI<sup>6</sup>, MANOJ KUMAR<sup>4</sup>, JAVAD SHARIFI-RAD<sup>5</sup>° AND ZABTA KHAN SHINWARI<sup>6,7</sup>°

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Amrita Vishwa Vidyapeetham University, Coimbatore 642109, India; c deepak@cb.amrita.edu

5. Dr. Deepak Chandran, Assistant Professor (Veterinary Sciences and Animal Husbandry), has published a research article entitled "Computational docking study of the phytochemical constituent, silybin (Silybum marianum) against SARS-CoV-2 omicron variant spike glycoprotein: An in-silico approach". Journal of Pure and Applied Microbiology. <a href="https://doi.org/10.22207/JPAM.17.1.29">https://doi.org/10.22207/JPAM.17.1.29</a>



6. Dr. Deepak Chandran, Assistant Professor (Veterinary Sciences and Animal Husbandry), has published a research article entitled "Twitter-based sentiment analysis and topic modeling of social media posts using natural language processing, to understand people's perspectives regarding COVID-19 omicron subvariants XBB.1.5 and BF.7". Journal of Pure and Applied Microbiology. <a href="https://doi.org/10.22207/JPAM.17.1.45">https://doi.org/10.22207/JPAM.17.1.45</a>

Praveen et al. | Article 8513 J Pure Appl Microbiol. 2023;17(1):515-523. doi: 10.22207/JPAM.17.1.45 Received: 18 February 2023 | Accepted: 28 February 2023 Published Online: 02 March 2023



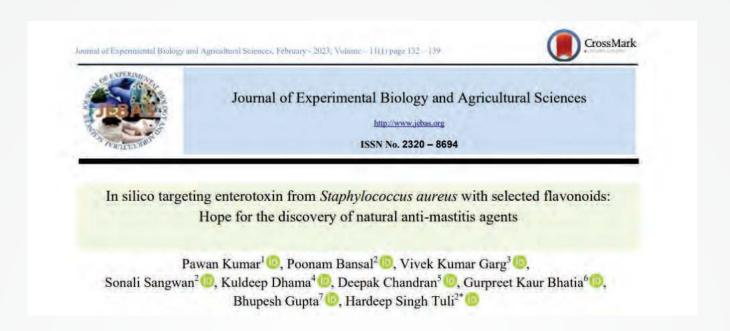
#### RESEARCH ARTICLE

**OPEN ACCESS** 

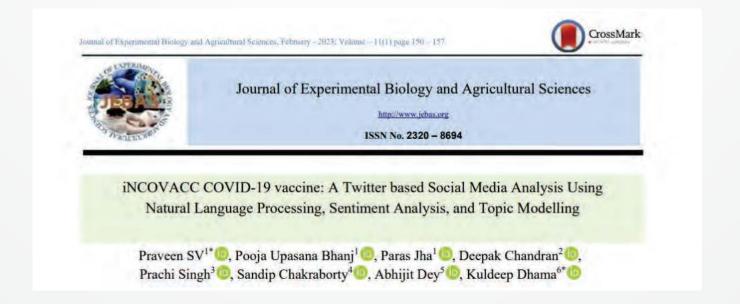
Twitter-Based Sentiment Analysis and Topic Modeling of Social Media Posts using Natural Language Processing, to Understand People's Perspectives Regarding COVID-19 Omicron Subvariants XBB.1.5 and BF.7

S.V. Praveen<sup>1\*</sup>, Rosemol Boby<sup>1</sup>, Roshan Shaji<sup>1</sup>, Deepak Chandran<sup>2</sup>, Nawfal R. Hussein<sup>3</sup>, Sirwan Khalid Ahmed<sup>4</sup>, Shopnil Akash<sup>5</sup> and Kuldeep Dhama<sup>6\*</sup>

7. **Dr. Deepak Chandran**, Assistant Professor (Veterinary Sciences and Animal Husbandry), has published a research article entitled "In silico targeting enterotoxin from Staphylococcus aureus with selected flavonoids: Hope for the discovery of natural anti-mastitis agents." Journal of Experimental Biology and Agricultural Sciences. <a href="http://dx.doi.org/10.18006/2023.11(1).132.139">http://dx.doi.org/10.18006/2023.11(1).132.139</a>



8. **Dr. Deepak Chandran**, Assistant Professor (Veterinary Sciences and Animal Husbandry), has published a research article entitled "iNCOVACC COVID-19 vaccine: A twitter based social media analysis using natural language processing, sentiment analysis, and topic modelling". Journal of Experimental Biology and Agricultural Sciences. <a href="http://dx.doi.org/10.18006/2023.11(1).150.157">http://dx.doi.org/10.18006/2023.11(1).150.157</a>



 Dr. Deepak Chandran, Assistant Professor (Veterinary Sciences and Animal Husbandry), has published a review article entitled "Progress and challenges in antimicrobial resistance and bacterial vaccines." Biointerface Research in Applied Chemistry. <a href="https://doi.org/10.33263/BRIAC135.489">https://doi.org/10.33263/BRIAC135.489</a>



10. Dr. Deepak Chandran, Assistant Professor (Veterinary Sciences and Animal Husbandry), has published an opinion article entitled "The emerging scenario for the Eastern equine encephalitis virus and mitigation strategies to counteract this deadly mosquito-borne zoonotic virus, the cause of the most severe arboviral encephalitis in humans—an update." Frontiers in Tropical Diseases. <a href="https://doi.org/10.3389/fitd.2022.1077962">https://doi.org/10.3389/fitd.2022.1077962</a>





Re-emergence of Sudan ebolavirus after a decade: new challenge to Ebola control

Ranjit Sah, MD<sup>a,b</sup>, Vivek Hada, MD<sup>c</sup>, Aroop Mohanty, MD<sup>c,\*</sup>, Bijaya Padhi, PhD<sup>d</sup>, Deepak Chandran, MVSc<sup>e</sup>, Nawfal R. Hussein, PhD<sup>l</sup>, Talha B. Emran, PhD<sup>g,b</sup>, Wanpen Chaicumpa, PhD<sup>l</sup>, Kuldeep Dhama, PhD<sup>l</sup>

Dr. Deepak Chandran, Assistant Professor (Veterinary Sciences and Animal Husbandry), has published a
correspondence article entitled "MERS-CoV recently re-emerged in Qatar, Saudi Arabia, its feasible global health risks
amid FIFA world cup 2022 and salient counteracting strategies – an update". International Journal of Surgery.
<a href="http://dx.doi.org/10.1097/JS9.000000000000000066">http://dx.doi.org/10.1097/JS9.0000000000000000066</a>



MERS-CoV recently re-emerged in Qatar, Saudi Arabia, its feasible global health risks amid FIFA world cup 2022 and salient counteracting strategies – an update

Hitesh Chopra, PhDa, Md. Aminul Islam, MScbc, Deepak Chandran, MVScd, Talha B. Emran, PhDa, Nahed A. El-Shall, PhDa, Jaffar A. Al-Tawfiq, MDhu, Kuldeep Dhama, PhDa

OPEN

13. **Dr. Deepak Chandran,** Assistant Professor (Veterinary Sciences and Animal Husbandry), has published a correspondence article entitled "Cultivated meat could aid in reducing global antimicrobial resistance burden – producing meat without antibiotics as a safer food system for the future." International Journal of Surgery. <a href="http://dx.doi.org/10.1097/JS9.000000000000000199">http://dx.doi.org/10.1097/JS9.000000000000000000099</a>



# Cultivated meat could aid in reducing global antimicrobial resistance burden – producing meat without antibiotics as a safer food system for the future

AbdulRahman A. Saied, BVSc<sup>a,b,\*</sup>, Deepak Chandran, MVSc<sup>c</sup>, Hitesh Chopra, PhD<sup>d</sup>, Abhijit Dey, PhD<sup>e</sup>, Talha B. Emran, PhD<sup>g,b,\*</sup>, Kuldeep Dhama, PhD<sup>f</sup>

14. **Dr. Deepak Chandran,** Assistant Professor (Veterinary Sciences and Animal Husbandry), has published an opinion article entitled "Fruit fly for anticancer drug discovery and repurposing." Annals of Medicine & Surgery. http://dx.doi.org/10.1097/MS9.00000000000002229



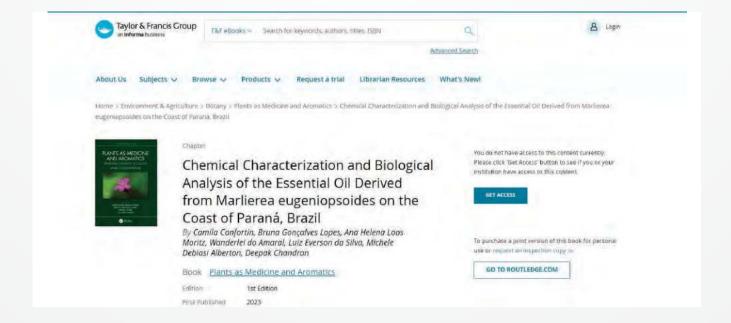
# Fruit fly for anticancer drug discovery and repurposing

Firzan Nainu, PhDa\*, Emil Salim, PhDb, Muh. Fadhil As'ad, B. Pharmo, Deepak Chandran, PhDd, Kuldeep Dhama, PhDb, Ali A. Rabaan, PhDb, Talha B. Emran, PhDb

15. **Ms. Ankitha Indu J, Ms. Deepika Krishnan, Ms. Anjali M R**, second-year students, **Dr. Deepak Chandran**, and **Dr. Sivasabari K**, Assistant Professors have published a review article entitled "Beneficial impacts of goat milk on the nutritional status and general well-being of human beings: Anecdotal evidence." Journal of Experimental Biology and Agricultural Sciences. <a href="http://dx.doi.org/10.18006/2023.11(1).1.15">http://dx.doi.org/10.18006/2023.11(1).1.15</a>



16. Dr. Deepak Chandran, Assistant Professor (Veterinary Sciences and Animal Husbandry), has published a book chapter entitled "Chemical characterization and biological analysis of the essential oil derived from Marlierea eugeniopsoides on the coast of Paraná, Brazil." In: Ansari, M.K., Unal, B.T., Ozturk, M., & Owens, G. (Eds.), Plants as Medicine and Aromatics: Pharmacognosy, Ecology, and Conservation (1st ed.), 219-229, Taylor & Francis, CRC Press. <a href="https://doi.org/10.1201/9781003226925">https://doi.org/10.1201/9781003226925</a>



17. **Dr. Deepak Chandran**, Assistant Professor (Veterinary Sciences and Animal Husbandry), has published a book chapter entitled "Green extraction and modification of proteins from traditional and novel sources". In: Reference Module in Food Science, 1-15, Elsevier. <a href="https://doi.org/10.1016/B978-0-12-823960-5.00088-3">https://doi.org/10.1016/B978-0-12-823960-5.00088-3</a>

# Green Extraction and Modification of Proteins From Traditional and Novel Sources

Neeraj Kumari<sup>a</sup>, Ajinath Dukare<sup>b</sup>, Suraj Prakash<sup>a</sup>, Niharika Sharma<sup>a</sup>, Radha<sup>a</sup>, Deepak Chandran<sup>c</sup>, Abhijit Dey<sup>d</sup>, Jose M. Lorenzo<sup>a,f</sup>, Sangram Dhumal<sup>a</sup>, and Manoj Kumar<sup>b</sup>, <sup>a</sup> School of Biological and Environmental Sciences, Shoolini University of Biotechnology and Management Sciences, Solan, Himachal Pradesh, India; <sup>b</sup> Chemical and Biochemical Processing Division, ICAR-Central Institute for Research on Cotton Technology, Mumbai, Maharashtra, India; <sup>b</sup> Department of Veterinary Sciences and Animal Husbandry, Amrita School of Agricultural Sciences, Amrita Vishwa Vidyapeetham University, Coimbatore, Tamilnadu, India; <sup>d</sup> Department of Life Sciences, Presidency University, Kolkata, West Bengal, India; <sup>e</sup> Centro Tecnológico de la Carne de Galicia, rúa Galicia n 4, Parque Tecnológico de Galicia, Ourense, Spain; <sup>f</sup> Área de Tecnología de los Alimentos, Facultad de Ciencias de Ourense, Universidad de Vigo, Ourense, Spain; and <sup>g</sup> Division of Horticulture, RCSM College of Agriculture, Kolhapur, Maharashtra, India

18. Dr. Sivasabari K, Dr. Parthasarathy S, and Dr. Deepak Chandran, Assistant Professors, have published a book chapter entitled "Vermicompost and vermi-leachate in pest and disease management". In: Hupenyu Allan Mupambwa, Lydia Ndinelao Horn, & Pearson Nyari Stephano Mnkeni. (Eds), Vermicomposting for Sustainable Food Systems in Africa, Sustainable Agriculture and Food Security, 277-304, Springer, Singapore. <a href="https://doi.org/10.1007/978-981-19-8080-0">https://doi.org/10.1007/978-981-19-8080-0</a> 17



Home > Vermicomposting for Sustainable Food Systems in Africa > Chapter

# Vermicompost and Vermi-leachate in Pest and Disease Management

K. Sivasabari , S. Parthasarathy, Deepak Chandran, S. Sankaralingam & R. Ajaykumar

Chapter | First Online: 26 February 2023

25 Accesses

Part of the Sustainability Sciences in Asia and Africa book series (SAFS)

 Dr. Parthasarathy S, Dr. Iniyakumar M, and Dr. Naveenkumar P, Assistant Professors, have published a book chapter entitled Mass Multiplication, Economic Analysis, and Marketing of Ganoderma sp. (Reishi Mushroom). In: Amaresan, N., Dharumadurai, D., Babalola, O.O. (eds) Food Microbiology Based Entrepreneurship. Springer, Singapore. <a href="https://doi.org/10.1007/978-981-19-5041-4-6">https://doi.org/10.1007/978-981-19-5041-4-6</a>



Home > Food Microbiology Based Entrepreneurship > Chapter

# Mass Multiplication, Economic Analysis, and Marketing of *Ganoderma* sp. (Reishi Mushroom)

Parthasarathy Seethapathy ☑, Subbiah Sankaralingam, Iniya Kumar Muniraj, Muralisankar Perumal & Naveenkumar Pandurangan

Chapter | First Online: 01 January 2023

100 Accesses



# **AWARDS AND ACHIEVEMENTS**



**Gopikrishna T P**, the second-year student, has participated in the "Padma Tarang-36th Inter University South Zone Youth Festival" organized by Sri Padmavati Mahila Visvavidyalayam, Tirupati, Andhra Pradesh from 03-01-2023 to 07-01-2023.



### **ASA e Newsletter Committee**

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