

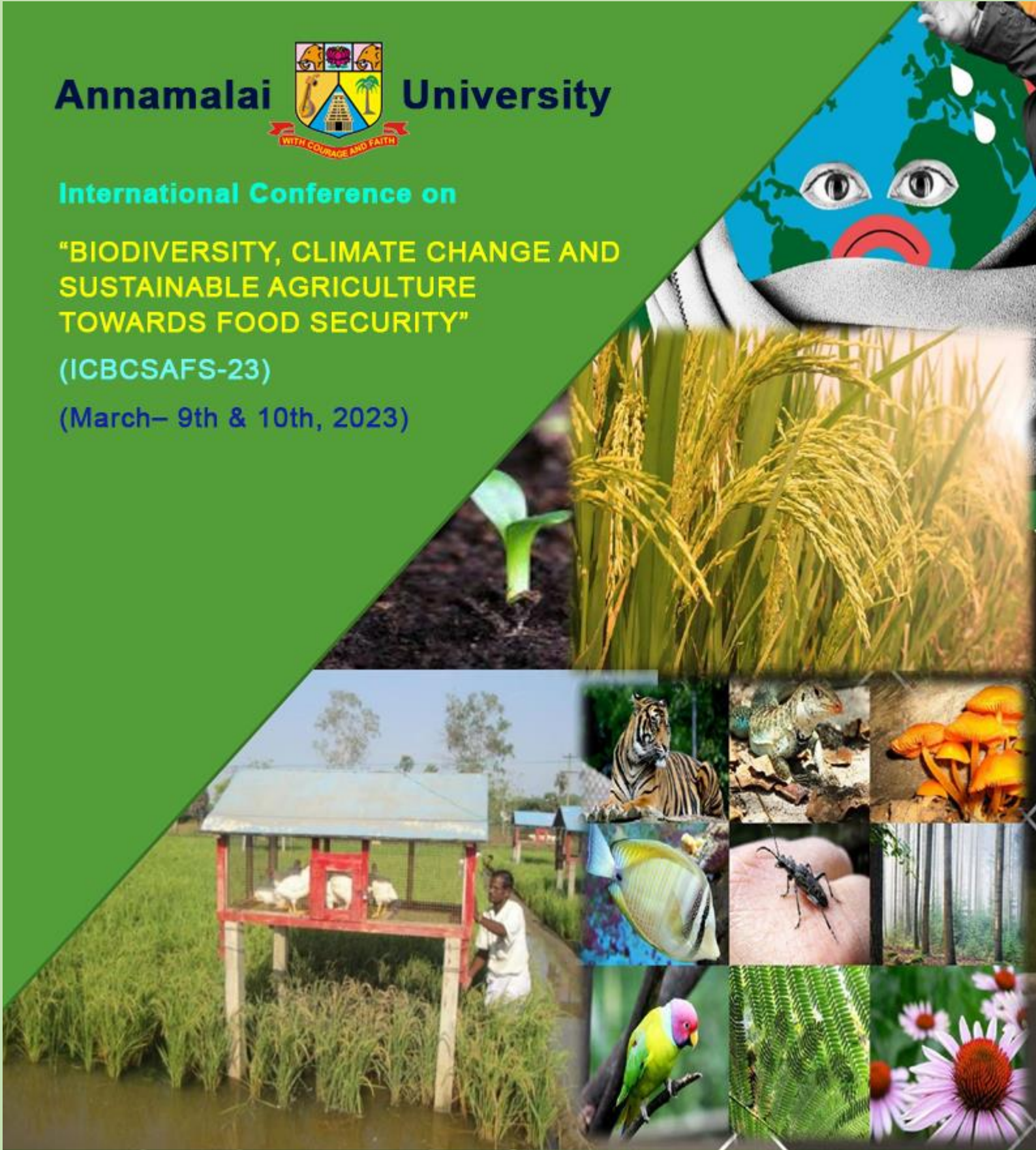


International Conference on

**“BIODIVERSITY, CLIMATE CHANGE AND
SUSTAINABLE AGRICULTURE
TOWARDS FOOD SECURITY”**

(ICBCSAFS-23)

(March– 9th & 10th, 2023)



Organised by

Centre for Natural Farming and Sustainable Agriculture (CNFSA)

Faculty of Agriculture

Annamalai University

Annamalai Nagar, Tamilnadu - 608 002.

About the University

In the early 1920s Rajah Sir S.R.M Annamalai Chettiar founded Sri Minakshi College, Sri Minakshi Tamil College and Sri Minakshi Sanskrit College at Chidambaram. In 1928, Rajah Sir S.R.M Annamalai Chettiar agreed with the local Government to handover the above said institution for establishing a University. Thus, on 01.01.1929 Annamalai University was established as per Annamalai University Act 1928 (Tamil Nadu Act 1 of 1929). One of the most significant developments is the enactment of the Annamalai University Act, 2013 (Tamil Nadu Act 20 of 2013), which has come into force from 25th September, 2013. Annamalai University is accredited with ‘A+’ Grade by NAAC in 2022. “The NIRF-2020” by the Ministry of Human Resource Development (MHRD) has ranked the University in the band **101 - 150** in the overall category as well as the University Category. In the Pharmacy Category the ranking is **12th** in India. In the Medical Category the ranking is **35th**. "The Times Higher Education World University Ranking - 2021” has ranked Annamalai University in **1000 +** for Overall category. In the Subject Category Ranking, 2021, Annamalai University is ranked **601+** for Clinical & Health Subjects, in the band of **801-1000** for Engineering, **801+** for Life Sciences and **1000 +** in the Physical Sciences Subjects. “The QS World University Ranking - 2021” has ranked Annamalai University in the band of **301-350** in Asia Ranking, and 39 in India Ranking.

About the Faculty of Agriculture

Circumfusing of rural scenario and agriculture around the university premises have been taken advantage of, in starting a Department of Agriculture under Faculty of Science to impart agriculture subject at intermediate and undergraduate level. As early as 1951. Dr. S. Krishnamurthy, the first Head of the Department of Agriculture, a renowned Horticulturist was instrumental in introducing M.Sc., (Ag.) in 1955 for the first time in South India.

In pursuit of modernizing agriculture and providing professional services to the farming community, a four-year professional course, B.Sc., (Ag.) introduced during 1958-59 under the Department of Agriculture, Faculty of Science. The Department of Agriculture was elevated as a Faculty of Agriculture in 1963. The Faculty comprises nine departments and one division. The unique feature of this faculty is that it offers B.Sc. (Ag.) and B.Sc. (Horti.) programmes as under graduate courses, wherein all the nine departments and one division join hands and share the credit loads of the programmes as outlined by ICAR (Indian Council of Agricultural Research). Besides these two under graduate

programmes, that are common for the faculty, individual departments offer post-graduate and Ph.D programmes independently. The research grants obtained by the faculty from UGC, DST, DBT, ICAR, NMPB, Ministry of coal, Environment and Forest and Water Resources etc., The Faculty of Agriculture carries out extension activities like Agripreneurship Development Programme, Sustainable Livelihood Projects for Tsunami affected people and Training Farmers in Integrated Farming.

About the Centre

The Centre for Natural Farming and Sustainable Agriculture (CNFSA) established in 2022 by Honourable Vice-chancellor Prof. RM. Kathiresan at the Faculty of Agriculture, Annamalai University. The Faculty of Agriculture staff members have been involved in various organic/ natural farming research, demonstration of organic based inputs, conducted training programs for the farmers / NGO's / Agriculture officers and organized National level conferences. We have been offering Organic / Natural farming courses in both Under Graduate and Post graduate levels. The centre is to facilitate research, traditional practices, develop new natural inputs and transfer of the latest organic/natural farming practices through training to improve the soil health and livelihood of the farming communities. CNFSA promotes organic / natural farming practices through training programs, skill development programs, capacity building to the Government officials, NGO's and farmers.

About Conference

Centre for Natural Farming and Sustainable Agriculture (CNFSA), Faculty of Agriculture, Annamalai University with pleasure invite all the young researchers, research scholars, policy makers, academician and youth farmers across the globe to the **International conference on Biodiversity, climate change and sustainable agriculture towards food security (ICBCSAFS-23) during 9th and 10th March, 2023**. The Conference includes keynote presentations, oral talks, poster presentation and exhibitions. Agriculture plays a fundamental role in people's ability to improve their diets, supplying food for consumption and providing income that can be used to purchase nutritious food. Improved agriculture and food systems will emphasize diversification, encompassing nutrient-dense; climate resilient; economically viable; and locally available or adaptable species. Selecting crops that are traditionally grown by women can also create synergies with objectives to empower women. The main aim is to provide common international platform and conduct healthy interactive sessions among the researchers and the delegates on the topic "**Biodiversity, climate change and sustainable agriculture towards food security**" with themes like biodiversity and natural resource conservation, soil health management, organic / natural farming practices for

crop production and protection, climate smart agriculture sustainable transformation in agriculture and natural food production system. Recent advances in Animal Husbandry, Aquaculture for Food and Nutritional Security, Innovation in Global & Regional Agricultural Education towards Youth Empowerment, Climate Change Resilient Agriculture, Post-Harvest Technology for Responsible Consumption forms the crux of the program. Accordingly, the targeted audience / attendees will be the students and global food experts / scientists / researchers / academicians / agriculturists / economists / environmentalists / Animal husbandry and dairy industrialists and innovative farm youth or farmers.

Major conference themes

Theme I: Biodiversity Management

Sub-themes: Biodiversity conservation and its sustainable use, Assessment and strategic management of aquatic resource, Innovations in ecology, eco-restoration and resource management, Biodiversity and sustainable livelihood of hill areas.

Theme II: Sustainable Transformation of Agriculture & Food Production System in Alleviating Poverty

Sub-themes: Optimize Resource Use for Agriculture, Innovation in Agriculture Production, Crop Diversification, Integrated Farming System, Livestock Production Genetics and Biotechnology, Nutritional Security, Fortification, Seed Advancement.

Theme III: Climate change impacts and mitigation

Sub-themes Global climate change and regional scenarios, Impact of climate change on agriculture and allied sector, Improving adaptive capacity and resilience to climate change.

Theme IV: Technological Innovation in High-Tech Horticulture and Precision Farming

Sub-themes: Horticulture, Agricultural Mechanization, Artificial Intelligence robotics, automation, drones and sensor and cloud software system, bench work to scale up and Agri Start-ups and urban farming.

Theme V: Advances in Aquaculture Research towards Food and Nutritional security

Sub-themes: Emerging technologies, Sustainable aquaculture production, Disease management, clean water, Fish nutrition & biochemistry. Genetics & biotechnology.

Theme VI: Climate Change Resilient Agriculture

Sub-themes: Adaptation and Resilience of Farming System, Animal Integration, Maintaining Local Genetic Resources, Reduction in Greenhouse Gases, Climate Smart Agriculture practices Development of Novel Product, Environmental Conservation and Ecology Management, Ecosystem Services.

Theme VII: Advances in Dairy and Animal Husbandry Sector towards Sustainable Development Goals

Sub-themes: Innovative Practices, Approaches and Products, Nutrition Enrichment, Heat stress in cattle and poultry, Antimicrobial Resistance, Feed Management, Diseases, Hygiene and Environment, Waste to Wealth.

Theme VIII: Role of Biological science and Technological Interventions towards Safe Food and Nutritional Security

Sub-themes: Crop Protection, Natural Resource Management, Development of Novel Chemicals and Formulations, Reduction of Pollutants or Contaminants, Evaluation Towards Safe Consumption, Biological Approaches, Bio-fortification. Recent advances in botany, zoology, microbiology, biotechnology, food science, nutrition, marine science and biochemistry.

Theme IX: Sustainable Agriculture Practices

Sub-themes: Organic / Natural farming practices, Biodynamic farming, Integrated farming system, Bio-stimulants, Bio pesticides, Integrated nutrient management, Integrated Plant Protection Practices and Good Agriculture Practices.

Theme X: Adaption and livelihood security

Sub-themes Farming system and ecosystem management for livelihood security, Technologies for enhancing crop productivity to improve the livelihood security.

Publications

Book of Abstract with ISBN will be published and selected full length research papers will be published as international conference proceedings with ISBN Number.

Who can attend?

This international conference is designed for agriculture and allied professionals, innovative farmers, entrepreneurs and youth with innovatory ideas, academicians, scientists, researchers, students, research institutions, government officials, policy makers, corporate and others engaged in activities related to education, research, business and entrepreneurship in agriculture and food system.

Technical sessions

- Expert lectures from keynote speakers
- Technical Sessions for Oral and Poster Presentation
- Plenary and Concluding Sessions.

Keynote speakers

Invited plenary lectures will be delivered by world renowned experts in the respective fields.

Call for papers

CNFSA invites Abstract / Full length research papers from the academicians, researchers and all other associated with the sectors for oral/ poster presentations. All abstracts will be subjected to a blind peer review process and categorized for oral or poster presentation. All submitted papers must be based on original research and should not have been previously submitted for publications or presented in another conference. At least one of the authors of the abstract must register for the conference before the deadline for considering the abstract. Abstract in various disciplines are invited as per the theme of the conference for oral or poster presentation. All presentation including oral and poster must be in English.

Guidelines for Abstract submission

Title: Times New Roman, bold,14 font size in single spacing

Authors and Affiliations: Times New Roman 12 font size under line the name of the presenter. E-mail ID and Mobile number: Times New Roman, 10 font size

Abstract: Times New roman, 12 font size,1.5 spacing, maximum word count 250-300 words.

Keywords: 4-5 keywords, Times New Roman 12 font size.

Awards

Best oral and poster presentations will be awarded in each theme.

About the venue

Faculty of Agriculture, Annamalai University, Annamalai Nagar – 608 002.

Accommodation

Accommodations are available in the guest house of Annamalai University on payment basis. Private hotels are also available in nearby areas.

Registration Fee

National International

- | | | |
|--|-----------|----------|
| ❖ PG / Ph.D. Research Scholars | : INR1000 | US\$ 50 |
| ❖ Faculties/ Scientists/Professionals: | INR1500 | US\$ 100 |

Note

1. Registration kit includes Conference abstract and proceeding, refreshment coupons and note pad.

Registration Link: <https://forms.gle/iGNJo4JMRDKqw7og8>

Bank Account details for registration / sponsorship

Person belongs to India and other parts of the world

Account Name : The Registrar, Annamalai University
Account Number : 621201156619
Account type : Current
IFSC : ICIC0006212
Bank : ICICI Bank, Annamalai Nagar Branch

Important Dates

Submission of Abstract : 5th January, 2023 onwards
Last date for full length paper submission : 20th February 2023
Acceptance of Abstract : 25th February, 2023
Last date for Registration : 25th February, 2023

Organizing Committee

Chief Patron	–	Prof. RM. Kathiresan, Ph.D., D.Sc., Vice-Chancellor Annamalai University
Patron	-	Prof. K. Seetharaman Registrar (i/c) Annamalai University
Co-patron	-	Dr. (Mrs.) A. Angayarkanni Dean, Faculty of Agriculture Annamalai University
Conference Convener -		Dr. R. Raman, Prof. of Agronomy & Director, (CNFSA) Faculty of Agriculture Annamalai University
Conference Co-ordinators -		Dr. S. Srinivasan Dr. D. Velmuragan Dr. S. Kothandaraman Dr. S. Vennila Dr. P.Sivasakthivelan
Organizing secretaries -		Dr. P. Ramesh Dr. D. Dhanasekaran Dr. K. Arivukkarasu Dr. N. Muthukumaran Dr. K. Rajamohan

National Advisory Committee

1. Dr. Balasubramanian, Director, MANAGE, Hyderabad
2. Dr.E.Somasundaram, Director, ADB,TNAU, Coimbatore
3. Dr. K. Kannan, Principal Scientist & Head, IISWC, ICAR, Ooty
4. Dr. K. Subramanian, Director, TRRI, Aduthurai, Thanjavur
5. Dr.T.Sakthivel, Principal Scientist, IIHR, Bengaluru
6. Dr. Ravindra Kumar, Regional Director, RCONF, Bengaluru
7. Dr. Mahendra Kumar, Principal Scientist. IIRR, Hyderabad
8. Dr. M. Jawaharlal, Principal, SRM Agriculture College, Chennai
9. Dr. Raja, Principal Scientist, IISWC, ICAR, Ooty
10. Dr. R. Srinivasamurthy, Scientist, NCONF

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4. Dr. Robertson, Director, Soil Health Institute, USA
5. Dr. Ratcha, Associate Prof. Kasetsart University, Thailand
6. Prof. S. Vasantharuba, Dean, Faculty of Agriculture, University of Jaffna, Srilanka
7. Prof. Dr. Sang Mok Sohn, Director, Institute of Organic Agriculture, Dancook University, South Korea
8. Dr. Abdul Rahman, Research Officer, MARDI, Malaysia

For Further Information Contact

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