

ETHNO-AGRODIVERSITY LAB

- Name: Dr.A.Sathya
- Designation: Associate Professor
- School: School of Chemical & Biotechnology
- **Qualifications:** **Ph.D**, Agriculture (Biodiversity conservation (Research at IRRI, Philippines and UMB (NLH) Norway); **M.Sc**, Plant Breeding and Genetics, TNAU; **B.Sc**. Agriculture, TNAU; **P.G. Diploma** in Human Resource Development; Pondicherry University; **P.G.Diploma** in Bioinformatics, Anna University
- **Areas of Interest:** Sustainable agriculture systems for improved livelihood; Waste to wealth; Biodiversity conservation; Applied Bioinformatics in plant metabolism
- <https://orcid.org/0000-0001-6453-6312>

AWARDS AND FELLOWSHIPS

- **Gold Medalist** - Dr. Rajagopalan endowment award for the **best student in plant breeding and genetic thesis in rice**” awarded by TNAU.
- **Jawaharlal Nehru scholarships** for doctoral studies for the year 2000 awarded by Jawaharlal Nehru Memorial fund.
- **Norad Research Fellowships, 2002** awarded by the ministry of human resource development, Govt. of India and the norwegian government
- **“Professor Madhav Gadgil Best scientist award 2012-13”** for **Biodiversity conservation** Bose science society affiliated with Vigyan prasar, DST, Govt. of India.

Externally Funded Projects

S.No.	Name of the Scheme	Sponsors	Period	Budget
1.	Ethno-scientific approach for evidence based promotion of heritage and indigenous Paddy varieties of Tamil nadu for health & sustainability through conservational memory and gene banking	DST, New Delhi	Ongoing 2019 -	Rs.33,82,297/-
2.	Empowerment of Peri Urban Women of Dry Tracts of Pudukkottai District through Capacity Building in Soil Less, Less Water and Less Spatial Nursery Techniques and Biofortification from available resources and Wastes for Healthy and Remunerative Livelihood	DST, New Delhi	Completed 2016-2019	Rs. 75,30,255/-
3.	Theme based Herbal Gardens at SASTRA (as CO PI)	National medicinal Plants Board, New Delhi	Completed 2010-2011	Rs.22 Lakhs
4.	Climate change and rice in Tamil nadu : Vulnerable areas and rice in Tamil nadu : Vulnerable areas and building adaptive capacity in the conservation of climate tolerant traditional rice varieties and biodiversity based ecological practices	PAN AP (Malaysia)-and Kudumbam Network NGO	1year 2009-10	Rs.5 lakhs

Our research journey...

- God shed light on the first step of our path which unfolded to empower rural women to pluck organic nutri vegetables in their homestead by utilizing local resources..The next step was the capacity building of women with livelihood improvement technologies of Coir Briquetting, organic bioinputs production & sale etc., Further God opened doors for restoring the Heritage Rice biodiversity in Tamilnadu, and now the path we are treading on is search for scientific evidence based claim on the goodness of these indigenous rice varieties.
- We have observed at awe the morpho-agronomic hues & colours of diverse rice varieties with farmers in our filed trials, wondered at the sturdiness of these plants in the face of climate change. Variations in the phyto-chemical charts made us to ponder into the docking scores of phytochemicals with their targets against the looming diseases such as diabetics hand in hand with model predictions. We pitch our hope in *invitro* and *invivo* studies to bridge the gap between the farmer and consumer with scientific evidences...

Highlights of Facilities, Consultancy & Capabilities –Ethno-Agrodiversity Lab



- Israel technology based Poly green house & Shade net house -3000 sq.ft.
- Protected cultivation & evaluation for plant based experiments of vegetables with Organic technologies



- Coir brick machinery shed & training shed - 1581 sq.ft.
- Standardisation of Briquetting technology for conversion of waste into wealth



- Phytochemical & Microbial analysis lab with NIR analyser , Automated protein and automated fat analyser



A walk in the fields of Our heritage Rice varieties



Capacity Building of Women with Coir



**Ethno-Agrodiversity
Lab Team**



Dr.A.Sathya,PI



Ms.Visithra D, Research scholar



Ms.Priya Dharshini V, Research scholar



**Mrs. Ancy James Mary T,
Field assistant**

CONSULTANCY OFFERED...

- Plant based studies –Nutrients, Pest, Diseases**
- Conversion of waste into wealth**
- Organic inputs production & standardisation**