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Special issue of JEBAS on Natural Resource Management for Climate Smart Sustainable Agriculture



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AIMS AND SCOPE

Millions of people around the world rely on natural resources like soil, water, forest, wildlife, etc. for their livelihood. However, these resources are not infinitely available for human use. Not only non-renewable but also renewable resources are limited. In many regions of the world, this general problem of shortage is aggravated by the degradation and destruction of natural resources. This is mainly due to overuse or a non-adapted use of the available resources. Farmers in all countries are now facing double challenge to improve the productivity and yield of crops, while preserving resources.

The health of ecosystems on which we and all other species depend is deteriorating more rapidly than ever. We are eroding the very foundations of our world and the biodiversity and the ecosystem was balanced or conserved.

But, with the advent of modern agriculture, focus is made mainly on paddy, wheat, maize, etc. and as a result, the biodiversity is confining or declining and many of the species are marching towards extinction. The replacement of landraces with a few genetically uniform varieties depletes genetic diversity and provides ideal conditions for pests, diseases and adverse climatic changes and creates genetic vulnerability.

These problems are easy to understand but very difficult to resolve. See, in 2030, the population will be 9 billion inhabitants, against 7 billion today, a growth which will demand 70% increase in agricultural production by 2050. Only the introduction of effective solutions that allow farmers to improve productivity while preserving resources will enable to meet these challenges. Diversified research is required on how the environmental changes in general and climate changes in particular will affect the drivers of mitigation and livelihood loss and how it can be addressed in holistic angle including policy framing. It is in this context that this special issue is planned to publish recent advances falling within aim and scope of the issue.

Interested Researchers/ Scientists of Universities/ Laboratories/ Organizations/ R&D of Industries and other research institutions are requested to contribute original and unpublished high quality .research. works. on one or more of the following topics/ aspects and related fields mentioned below through e-mail at sanjayswamionline@gmail.com with subject "Article for Special Issue on Natural Resource Management for Climate Smart Sustainable Agriculture."

1. Efficient Management of Land/Soil, Water, Energy and Human Resources
2. Diversification for Climate Smart Sustainable Agriculture
3. Abiotic and Biotic Stress Management to Mitigate the Effects of Climate Change
4. Carbon Sequestration in Soils for Different Land Use Systems
5. Integrated Farming Systems for Under Privileged Farmers
6. Conservation Agriculture and Smart Mechanization to Protect Natural Resources
7. Conservation forestry, Agro-forestry, Social forestry and Forest Management
8. Horticulture, Medicinal & Aromatic Plants and Underutilized Crops Based Agriculture Systems for Vulnerable Agro-ecosystems, Post Harvest Management, Value Addition and Market Intelligence
9. Precision Nutrient Management, Organic Farming and Bio-diversity Conservation, Indigenous Technology Knowhow
10. Management of Problematic Soils, Bio-fertilizers for Sustainable Soil Health
11. Remote Sensing and GIS, Hydrological and Crop Modelling for Decision Support System in Natural Resource Management
12. Rain Water Harvesting/Management and Integrated Watershed Management for Rural Livelihood

