

## **Indian Institute of Millets Research**



### **ABOUT**

Indian Institute of [Millets Research](#) in Rajendranagar, Hyderabad, Telangana, India in year 1958 and IIMR is a premier agricultural research institute involved in basic and strategic research on sorghum and other millets under Indian Council of [Agricultural Research](#), Government of India. In year 1958 this centre was established under the intend on Intensified Research on Cotton, Oilseeds and Millets. In year 1966 it worked as Regional Research Station of the Indian Agricultural Research Institute. In year 1970 is initiate as the main unit of All India Coordinated Sorghum Improvement Project. In year 1987 to further strengthen the basic and strategic research activities National Research Centre for Sorghum was established. In year 2014 it is upgraded to Indian Institute of Millets Research. Research centre is working in the continuous improvement in Genetic Resources, [Crop improvement](#) such as Sorghum; Pearl Millet; Foxtail millet; etc., Biotechnology, Seed Science, etc.

<b>Research Centre Name</b>	Indian Institute of Millets Research
<b>Centre Type</b>	Central
<b>Governed By</b>	Indian Council of Agricultural Research
<b>Location</b>	Telangana, India
<b>Topic Cover</b>	Genetic Resources, Crop improvement such as Sorghum; Pearl Millet; Foxtail millet; etc., Biotechnology, Seed Science, etc.
<b>Application Mode</b>	Online & Offline
<b>Head</b>	Dr. Vilas A Tonapi
<b>How to Reach</b>	<a href="#">Telangana, India</a>
<b>Founded In</b>	1958
<b>Website Link</b>	<a href="#">Click Here</a>

### **MISSION AND VISION**

The IIMR primary mission is "to encourage [economic growth](#) by originating and disseminating ready-to-use technologies which generate markets, respond to current and future economic requirements, and continue the long-term sustainability of the [agricultural resource](#) base." The major outcome of the strategy is coherent with concentrated research programmes by IIMR which not only targets new technologies that acknowledge to [economic opportunities](#) but also link producers to markets and make distinguished use of existing technologies and technology providers.

IIMR Vision is for "Modifying millets cultivation from subsistence farming to overall competitive through cost-effective and environment friendly output, purifying and value addition technologies and [supply chain networks](#)". The main emphasis of IIMR targeted outputs on a given schedule is in tune with the stated observation that could relent the assumed gains in terms of increased production and stability of millets under low to moderate-rainfall

conditions, enhanced resistance to drought and other [environmental stresses](#) to address the climate change, involving exploring possibility of evolving hybrids in finger millet and other small millets, involving low and high temperature toleration in millets.

### **DIFFERENT PUBLICATIONS FROM CENTRE**

Some of the ongoing and externally funded research work of centre. Some of the titles are listed in below table.

#### ***1) Ongoing Projects***

1	Over expression of genes involved in ascorbate-glutathione cycle to enhance the abiotic stress tolerance in transgenic sorghum plants.
2	Development of pearl millet parental lines with improved yield in A <sub>1</sub> , A <sub>4</sub> and A <sub>5</sub> CMS background.
3	Genetic enhancement of grain yield and related traits and identification of trait specific genotypes in foxtail millet [ <i>Setaria italica (L.) Beauv.</i> ]
4	Genetic improvement of little millet ( <i>Panicum sumatrense Roth. Ex Roem. &amp; Schult.</i> ) genotypes for yield and agronomic traits.
5	Characterization of nutritional functional and therapeutic properties of millet grains to establish as health cereals.
6	Replication of successful value added processing, promotional and marketing interventions in pearl millet and small millets.
7	Identification of genomic regions associated with grain protein quality traits in rabi sorghum through genomic-wide association analysis.
8	Development of molecular markers in kodo and little millet and their utility in genetic analysis.

#### ***2) Externally Funded Projects***

1	Development of sorghum genotypes suitable for lignocellulosic bio-fuel production through marker-assisted gene pyramiding of brown midrib genes.
2	Development of stem borer and shoot fly resistant transgenic sorghum.
3	Centrally sponsored scheme of PPV&FRA under “Sub-mission on Seeds and Planting Material”.
4	Expression of Resistance to Diapausing and Nondiapausing Spotted Stem Borer, <i>Chiloptartellus</i> in Sorghum and Maize: Implications for Crop Improvement and IPM.
5	Development of fortified Millet foods and their validation for nutritional and health benefits.
6	Empowerment of Women through Application of Multifaceted Biotechnological Innovations in Millets for Sustainable Income Generation and Nutritional Security.
7	Evaluation of drought tolerance QTL introgression lines during post-rainy season and molecular characterization of core set of breeding material from ICAR-IIMR.
8	Application of Next-Generation Breeding, Genotyping, and Digitalization Approaches for Improving the Genetic Gain in Indian Staple Crops.

#### ***1) All-India Coordinated Research Project on Sorghum***

In 1969 All-India Coordinated Research Project on [Sorghum](#) was established with the main intention of performing research on grain and forage sorghum development. Its coordinating unit was initially situated at the main station of Indian Agricultural Research Institute (IARI) at New Delhi, with 11 collaborative centers positioned in different states under State Agricultural Universities (SAUs).

1. [Advance hybrids](#), diversities, parental lines and novel genetic stocks and perform and monitor multi-location testing of coordinated trials.

2. Advance and publicize integrated [crop development](#) technologies and plant protection practices to important insect and diseases.

3. To cooperate in publicly- funded ventures encompassing Breeder Seed development, Front-line demonstrations, and [Tribal sub-Plan programmes](#).

**2) All India Coordinated Pearl Millet Improvement Project**

All-India Coordinated Research Project on Pearl Millet established by Indian Council of Agricultural Research. AICRP on Pearl Millet is one of 61 collaborated projects working under the aegis of ICAR. Project collaborating section of AICRP on [Pearl Millet](#) is based at Jodhpur. The centres are under the regulatory control of relevant SAUs or institutes.

**3) All India Coordinated Research Project on Small Millets**

The All India Coordinated Research Project on [Small Millets](#) conducting its research in 14 different centres along with many discretionary centres covering all the major small millet growing fields which includes the tribal and [hill regions](#) in the nation.

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