

## Indian Institute of Millets Research

### Ongoing Institute Projects

Sr No	Project Title- Institute code	Principal investigator	Duration	Status
	<b>Crop Improvement</b>			
1	Developing kharif sorghum genotypes suitable for different seasons- IIMR/CI/2016-21/92	Aruna, C	2016-2021	Completed
2	Breeding kharif sorghum for specific end uses- IIMR/CI/2016-21/93	Aruna, C	2016-2021	Completed
3	Improving sweet and high biomass sorghum for biofuel and forage production- IIMR/CI/2016-21/98	Umakanth, AV	2016-2021	Completed
4	Enhancement of productivity of forage sorghum cultivation systems IIMR/CI/2016-21/100	Venkatesh Bhat, B	2016-2021	Completed
5	Breeding kharif sorghum cultivars with improved shoot fly resistance- IIMR/CI/2016-21/94	Madhusudhana, R	2016-2021	Completed
6	Development of genetically diversified high yielding Rabi sorghum Hybrids- IIMR/CI/2017-22/116	Madhusudhana R	2017-2022	Ongoing
7	Genetic enhancement of rabi sorghum adaptive traits for improved varietal performance- IIMR/CI/2020-2025/122	Parashuram Patroti,	2020-2025	Ongoing
8	Utilization of wide hybridization derivatives in breeding program and molecular characterization in sorghum- IIMR/CI/2020-2025/125	KBRS Visarada,	2020-2023	Ongoing
9	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- IIMR/CI/2015-20/69	Sanjana, P	2015-2021	Completed
10	Improving the yield potential of pearl millet hybrids for favourable and marginal environments- IIMR/CI/2018-23/120	T Nepolean	2018-2023	Ongoing
11	Development of high biomass pearl millet forage cultivars with improved quality- IIMR/CI/2016-21/102	Avinash Singode	2016-2021	Completed
12	Genetic enhancement of finger millet ( <i>Eleusine coracana</i> (L.) Gaertn) genotypes for yield and its related traits- IIMR/CI/2015-18/70	Ganapathy, KN	2015-2021	Completed
13	Genetic improvement of little millet ( <i>Panicum sumatrense</i> Roth. Ex Roem. & Schult.) genotypes for yield and agronomic traits- IIMR/CI/2015-18/75	Ganapathy, KN	2015-2021	Completed
14	Genetic enhancement of grain yield and related traits and identification of trait specific genotypes in foxtail millet [ <i>Setaria italica</i> (L.) Beauv.]- IIMR/CI/2015-18/71	Hariprasanna, K	2015-2021	Completed
15	Genetic enhancement of grain yield and contributing traits in kodo millet ( <i>Paspalum scrobiculatum</i> L.)- IIMR/CI/2015-18/72	Deepika, C	2015-2021	Completed
16	Genetic improvement of Proso millet [ <i>Panicum maliaceum</i> (L)] for yield and yield contributing traits- IIMR/CI/2015-18/73	Avinash Singode	2015-2021	Completed
17	Breeding for higher grain yield and biomass in barnyard millet- IIMR/CI/2016-21/99	Amasiddha, B	2016-2021	Completed
18	Brown top millet- Characterization and genetic improvement- IIMR/CI/2017-22/115	Bhat BV	2017-2022	Ongoing
19	Sorghum, pearl millet and small millets genetic resources management- IIMR/CI/2016-21/103	Elangovan M	2016-2021	Completed
20	Manipulating SbSERK gene(s) to understand their effect on generating apomixis components through CRISPR-Cas9 mediated gene editing technology- IIMR/CI/2020-2025/124	D Balakrishna,	2020-2025	Ongoing
21	Sorghum transgenics for stem borer resistance- IIMR/CI/2017-22/112	Balakrishna D	2017-2022	Ongoing
22	Identification of genomic regions associated with grain protein quality traits in rabi sorghum through genomic-wide association analysis- IIMR/CI/2016-21/95	Rajendra Kumar, P	2016-2021	Completed

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23	Development of molecular markers in kodo and little millet and their utility in genetic analysis- IIMR/CI/2016-21/101	Rajendra Kumar P	2016-2021	Completed
24	Biochemical and molecular mechanisms of thermo-tolerance in pearl millet- IIMR/CI/2017-22/113	Jinu Jacob	2017-2022	Ongoing
25	Characterization of molecular mechanisms of finger millet- <i>Magnaporthe grisea</i> interaction through transcriptome profiling- IIMR/CI/2018-23/121	Jinu Jacob	2018-2023	Ongoing
	<b>Crop Protection</b>			
26	Studies on millet diseases with specific emphasis on blasts- IIMR/CPT/2016-21/107	Das IK	2016-2021	Completed
27	Studies on endophytes for management of major soil-borne diseases of millets- IIMR/CPT/2020-2025/130	G Rajesha,	2020-2024	Ongoing
28	Yield loss assessment in millets due to invasive fall army worm, and its integrated management with special emphasis on sorghum- IIMR/ CPT /2020-2025/131	G Shyam Prasad,	2020-2024	Ongoing
29	Risk of pesticide sprays on sorghum: Acute and field toxicities on stem borers & shoot bug and their natural enemies- IIMR/CPT/2020-2025/132	J Stanley	2020-2023	Ongoing
30	Understanding the host-pest interactions of shoot fly, stem borer and fall armyworm in millets and management through semio-chemicals- IIMR/CPT/2020-2025/133	PG Padmaja,	2020-2025	Ongoing
31	Integrated pest management for major shoot pests of sorghum during post rainy season in dryland region of Solapur- IIMR/CPT/2020-2025/134	B Subbarayudu,	2020-2024	Ongoing
32	Studies on major insect pests of rabi sorghum and development of EILs- IIMR/CPT/2020-2025/135	K Srinivas Babu,	2020-2025	Ongoing
33	Assessment of crop losses due to major insect pests and role of enemies in reducing the pest load in millets- IIMR/CPT/2018-21 /118	Kalaisekar A	2018-2021	Completed
	<b>Crop Production &amp; Physiology</b>			
34	Development of intra millet intercropping systems for resilience and sustainability- IIMR/CPD/2020-2025/129	B Gangaiah,	2020-2024	Ongoing
35	Development of System Modeling Platform to Guide Agro-ecosystem Specific Interventions to Enhance Post-rainy Sorghum Production in India- IIMR/CPD/2017-22/114	Swarna Ronanki	2017-2022	Ongoing
36	Physiological dissection of key traits contributing for moisture stress adaptations in post rainy sorghum: with an emphasis on root architectural traits- IIMR/CPD/2020-2025/128	S Srividhya	2020-2022	Ongoing
	<b>Nutritional quality &amp; Seed Science</b>			
37	Characterization of nutritional functional and therapeutic properties of millet grains to establish as health cereals- IIMR/FF/2015-20/91	Ratnavathi, CV	2015-2021	Completed
38	High calcium accumulation in finger millet and its relationship to grain constituents- IIMR/ FF /2020-2025/127	R Venkateshwarulu	2020-2023	Ongoing
39	Investigations on genetics of seed vigour and longevity, and effect of foliar plant nutrition on seed yield and quality in small millets- IIMR/ SS/2020-2025/126	N Kannababu,	2020-2025	Ongoing
40	Studies on cold tolerance in sorghum and foxtail millet- IIMR/CPD/2018-23 /119	Sooganna	2018-2023	Ongoing
	<b>Socio-economics &amp; Extension</b>			
41	Mechanization of millet production, processing and value-added technologies through contract designing, fabrication and testing of machinery- IIMR/VA/2017-22/117	Dayakar Rao B	2017-2022	Ongoing
42	Replication of successful value added processing, promotional and marketing interventions in pearl millet and small millets- IIMR/VA/2015-18/89	Dayakar Rao B	2015-2021	Completed

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43	Socio-economic analysis of tribal community ecosystem using millets-based technologies- IIMR/CPD/2016-21/109	Chapke RR	2016-2021	Completed
44	Economic analysis of production, marketing, utilization, and policy perspectives of sorghum in India- IIMR/EVA/2020-2025/136	Anuradha Narala,	2020-2025	Ongoing
45	Development of selected value-added products of dairy analogue, pigments extraction from millets and its evaluation for enhanced shelf life- IIMR/EVA/2020-2025/137	P Hemashankari,	2020-2023	Ongoing
46	Livelihood security of millets stakeholders through production and processing technologies in NE region- IIMR/EVA/2020-2025/138	B Sangappa,	2020-2023	Ongoing