

List of institute's ongoing projects at IIMR-2018-19

S No	Institute code	Project Title	PI	Co-PIs	Duration
1	DSR/AS/2012-15/53	Over expression of genes involved in ascorbate-glutathione cycle to enhance the abiotic stress tolerance in transgenic sorghum plants	Balakrishna D	Venkatesh Bhat B & Talwar HS	2012-2018 (Extended for 1 year)
2	IIMR/CI/2015-18/68	Induction of mutations for sorghum improvement	Balakrishna D	Venkatesh Bhat B & Srinivasa Babu K	2015-2018 (Extended for 1 year)
3	IIMR/CI/2015-20/69	Development of pearl millet parental lines with improved yield in A ₁ , A ₄ and A ₅ CMS background	Sanjana P	Talwar HS, Das IK, Visarada KBRS & Parashuram Patrori	2015-2021
4	IIMR/CI/2015-18/70	Genetic enhancement of finger millet (<i>Eleusine coracana</i> (L.) Gaertn) genotypes for yield and its related traits	Ganapathy KN	Das, IK, Shyam Prasad G & Venkatesh Bhat B	2015-2021
5	IIMR/CI/2015-18/71	Genetic enhancement of grain yield and related traits and identification of trait specific genotypes in foxtail millet [<i>Setaria italica</i> (L.) Beauv.]	Hariprasanna K	Rajendra Kumar P Kalaisekhar A, Parashuram Patroti & Sharma KK	2015-2021
6	IIMR/CI/2015-18/72	Genetic enhancement of grain yield and contributing traits in kodo millet (<i>Paspalum scrobiculatum</i> L.)	Deepika C	Hariprasanna K, Kalaisekhar A & Rao SS	2015-2021
7	IIMR/CI/2015-18/73	Genetic improvement of Proso millet [<i>Panicum maliaceum</i> (L)] for yield and yield contributing traits	Avinash Singode	Das IK & Srinivas Babu K	2015-2021
8	IIMR/CI/2015-18/75	Genetic improvement of little millet (<i>Panicum sumatrense</i> Roth. Ex Roem. & Schult.) genotypes for yield and agronomic traits	Ganapathy KN	Das, IK & Subbarayudu B	2015-2021
9	IIMR/CI/2015-20/76	Development of multi-genotype varieties (MAGIC lines) for genetic diversification and enhancing yield stability in Rabi sorghum.	Parashuram Patroti	Samdur MY & Sharma KK	2015-2020
10	IIMR/CP/2015-19/79	Farmers' Perceptions of Millets Production Constraints, Varietal Preferences and their management	Shashidhar Reddy Ch	Subbarayudu B	2015-2019
11	IIMR/AS/2015-19/81	Physiological and biochemical basis of drought tolerance in finger millet & foxtail millets	Talwar HS	Ganapathi KN & Hariprasanna K	2015-2019
12	IIMR/BS/2015-20/84	Biological intricacies in host-parasitic interaction between millets and shoot fly species	Padmaja PG	Kalaisekar A & Ratnavathi CV	2015-2020
13	IIMR/BS/2015-18/85	Systematics of immature stages of shoot fly species associated with millets in India	Kalaisekar A	Subbarayudu B	2015-2020

14	IIMR/BS/2015-20/86	Etiology, epidemiology and management of important diseases of rabi sorghum with emphasis on root and stalk rots	Sharma KK	Parashuram Patroti	2015-2020
15	IIMR/SS/2015-20/87	Studies on flowering behaviour, seed setting and maturity pattern and seed quality enhancement in small millets	Kannababu N	Rao SS, Visarada KBRS, Ratnavathi CV & Sooganna	2015-2020
16	IIMR/VA/2015-18/89	Replication of successful value added processing, promotional and marketing interventions in pearl millet and small millets	Dayakar Rao B	Shashidhar Reddy Ch.	2015-2021
17	IIMR/FF/2015-18/90	Evaluation of nutritional value of forage and stover from sorghum, pearl millet, finger millet and other millets	Venkateswarlu R	Ratnavathi CV, Venkatesh Bhat B, Umakanth, AV & Ganapathy KN	2015-2018 (Extended for 2 years)
18	IIMR/FF/2015-20/91	Characterization of nutritional functional and therapeutic properties of millet grains to establish as health cereals	Ratnavathi CV	Venkateswarlu R & Vijaylakshami V (NIN)	2015-2021
19	IIMR/CI/2016-21/92	Developing kharif sorghum genotypes suitable for different seasons	Aruna C	Das IK, Deepika C, Hariprasanna K, Ravi Kumar S, Visarada KBRS, Rao SS, Padmaja PG & Venkateswarlu R	2016-2021
20	IIMR/CI/2016-21/93	Breeding kharif sorghum for specific end uses	Aruna C	Ratnavathi CV, Deepika C & Venkateswarlu R	2016-2021
21	IIMR/CI/2016-21/94	Breeding kharif sorghum cultivars with improved shoot fly resistance	Madhusudhana R	Padmaja PG & Visarada KBRS	2016-2021
22	IIMR/CI/2016-21/95	Identification of genomic regions associated with grain protein quality traits in rabi sorghum through genomic-wide association analysis	Rajendra Kumar P	Ratnavathi CV	2016-2021
23	IIMR/CI/2016-21/98	Improving sweet and high biomass sorghum for biofuel and forage production	Umakanth AV	Talwar HS, Venkatesh Bhat B, Padmaja PG, Ratnavathi CV, Rajendra Kumar P & Amasiddha B	2016-2021
24	IIMR/CI/2016-21/99	Breeding for higher grain yield and biomass in barnyard millet	Amasiddha B	Ganapathy KN, Rao SS & Srinivasababu K	2016-2021
25	IIMR/CI/2016-21/100	Enhancement of productivity of forage sorghum cultivation systems	Venkatesh Bhat B	Avinash Singode, Umakanth AV, Kannababu N, Shyamprasad G & Venkateswarlu R	2016-2021

26	IIMR/CI/2016-21/101	Development of molecular markers in kodo and little millet and their utility in genetic analysis	Rajendra Kumar P	Hariprasanna K & Ganapathy KN	2016-2021
27	IIMR/CI/2016-21/102	Development of high biomass pearl millet forage cultivars with improved quality	Avinash Singode	Venkatesh Bhat B, Venketeshwarlu R, Ammasiddha B & Elangovan M	2016-2021
28	IIMR/CI/2016-21/103	Sorghum, pearl millet and small millets genetic resources management	Elangovan M	Avinash Singode	2016-2021
29	IIMR/CPD/2016-21/105	Physiological basis of genetic gain in kharif sorghum cultivars	Rao SS	Aruna C & Kanna Babu N	2016-2021
30	IIMR/CPT/2016-21/106	Investigations on shoot bug and maize stripe virus in sorghum	Subbarayudu B	Sharma KK & Samdur MY	2016-2019
31	IIMR/CPT/2016-21/107	Studies on millet diseases with specific emphasis on blasts	Das IK	Nagaraja A (SM), Jinu Jacob, Kannababu N, Elangovan M & Ganapathy KN	2016-2021
32	IIMR/CPD/2016-21/108	Development of database for millets stakeholders and market mapping of value-added products of millets in selected cities	Sangappa C	Dayakar Rao B, Shashidhar Reddy Ch & Mukesh P	2016-2019
33	IIMR/CPD/2016-21/109	Socio-economic analysis of tribal community ecosystem using millets based technologies	Chapke RR	-	2016-2021
34	IIMR/CPD/2016-19/111	Validation of mechanization ICM as well as IPM module and value addition to stover of zero tillage in Rice fallow	Ravi Kumar S	Subbarayudu B	2016-2019
35	IIMR/CI/2017-22/112	Sorghum transgenics for stem borer resistance	Balakrishna D	Venkatesh Bhat B & Padmaja PG	2017-2022
36	IIMR/CI/2017-22/113	Biochemical and molecular mechanisms of thermo-tolerance in pearl millet	Jinu Jacob	Sanjana P, Talwar HS & Sooganna	2017-2022
37	IIMR/CPD/2017-22/114	Development of System Modeling Platform to Guide Agro-ecosystem Specific Interventions to Enhance Post-rainy Sorghum Production in India	Swarna Ronanki	Jana Kholova (ICRISAT), Talwar HS & Ravi V	2017-2022
38	IIMR/CI/2017-22/115	Brown top millet- Characterization and genetic improvement	Venkatesh Bhat B	Elangovan M, Balakrishna D, Ratnavathi CV & Sooganna	2017-2022
39	IIMR/CI/2017-22/116	Development of genetically diversified high yielding Rabi sorghum Hybrids	Madhusudhana R	Patroti P, Elangovan M, Talwar HS & Samdur MY	2017-2022

40	IIMR/VA/2017-22/117	Mechanization of millet production, processing and value-added technologies through contract designing, fabrication and testing of machinery	Dayakar Rao B	Ratnavathi CV, B Venkatesh Bhat, Srinivasa Babu K, Avinash Singode & Sangappa	2017-2022
41	IIMR/CPT/2018-21/118	Assessment of crop losses due to major insect pests and role of enemies in reducing the pest load in millets	Kalaisekar A	Srinivas Babu K & Padmaja PG	2018-2021
42	IIMR/CPD/2018-23/119	Studies on cold tolerance in sorghum and foxtail millet	Sooganna	Kannababu N, Patroti P, Hariprasanna K & Madhusudhana R	2018-2023
43	IIMR/CI/2018-23/120	Improving the yield potential of pearl millet hybrids for favourable and marginal environments	Nepolean T	Talwar HS, Visarada KBRS, Rajendra Kumar, P; Sanjana Reddy P, Jinu Jacob & Swarna R	2018-2023
44	IIMR/CI/2018-23/121	Characterization of molecular mechanisms of finger millet- <i>Magnaporthe grisea</i> interaction through transcriptome profiling.	Jinu Jacob	Das IK, Nepolean T & Ganapathy KN	2018-2023

Externally funded projects -2018-2019

S. No	Project Title	PI	CO-PIs	Funding Agency (Rs. In Lakhs)	Duration
1	Consortia research platform on Agro-biodiversity	Elangovan M	-	ICAR(125.0)	2014-2020
2	Development of sorghum genotypes suitable for lingo-cellulosic bio-fuel production through marker-assisted gene pyramiding of brown midrib genes	Rajendra Kumar P	Umakanth AV	DBT(61.0)	2015-2020
3	Technology Business Incubator (TBI)	Dayakar Rao B	-	DST(445.00)	2017-2022
4	Agribusiness Incubation & ZTMC	Dayakar Rao B	Aruna C; Avinash S, Sangappa C	NAIF (ICAR) (50.0)	2016-2022

5	Whole Genome Transcriptomic analysis to identify key genes regulating sugar accumulation in sweet sorghum	Umakanth AV	-	DST (6.84)	2016-2019
6	Development of stem borer and shoot fly resistant transgenic sorghum	Balakrishna D	Padmaja PG	ICAR-NPTC(10.0)	2017-2020
7	Centrally sponsored scheme of PPV&FRA under "Sub-mission on Seeds and Planting Material"	Hariprasanna K	Amasiddha B; Deepika C	PPV&FRA (13.0)	Ongoing
8	Consortia Research Platform on Biofortification in selected crops for nutritional security	Hariprasanna K	Rajendrakumar P; Venkateswarlu R	ICAR (80.14)	2017-2020
9	Expression of Resistance to Diapausing and Nondiapausing Spotted Stem Borer, <i>Chiloptellus</i> in Sorghum and Maize: Implications for Crop Improvement and IPM	Shyamprasad G	Srinivasbabu K	NASF(120.69)	2017-2019
10	Development of fortified Millet foods and their validation for nutritional and health benefits	Ratnavathi CV	Venkateswarlu R	DBT(83.8)	2017-2020
11	Participatory technology validation, diversification, value addition for small holders livelihood improvement of Central Telangana Zone	Sangappa B	Dayakar Rao B; Amasiddha B; Subbaraydu B	ICAR(29.5)	2018-2020
12	Empowerment of Women through Application of Multifaceted Biotechnological Innovations in Millets for Sustainable Income Generation and Nutritional Security	Sangappa B	Dayakar Rao B; BhavaniKammar (KVK Bidar)	DBT(40.00)	2018-2021
13	Optimizing resources for identification of potential sorghum forage hybrids using Genomic selection	Venkatesh Bhat B	Avinash Singode	DBT (22.84)	2018-2021

14	Evaluation of drought tolerance QTL introgression lines during post-rainy season and molecular characterization of core set of breeding material from ICAR-IIMR	Talwar HS	Madhusudhana R	CRP-GLDC, ICRISAT (11.00)	2018-2019
15	Frontline demonstrations (FLDs) on sorghum during	Chapke RR	-	DAC & FW (12.00)	2018-2019
16	Socio-economic upliftment of tribal farmers through millets production technologies under TSP	Chapke RR	-	ICAR –TSP (76.50)	2018-2019
17	Application of Next-Generation Breeding, Genotyping, and Digitalization Approaches for Improving the Genetic Gain in Indian Staple Crops	Nepolean T	Madhusudhana R; Aruna C; Sanjana Reddy P.	BMGF and ICAR(397.78)	2018-2022
18	Formation of Farmer Producer Organization (FPOs)	Sangappa B	Srinivas Babu K	DAC& FW (122.00)	2019-2021
19	National Seed Project (Crops)	Venkatesh Bhat B	Sooganna	ICAR (5.00)	Ongoing
20	ICAR Seed Project: Seed Production in agricultural crops and fisheries	Venkatesh Bhat B	Sooganna	ICAR (10.13)	Ongoing
21	Enhancing Breeder Seed Production for Increasing Indigenous Production of Millets in India	Venkatesh Bhat B	Sooganna	DAC & FW (70.00)	2019-2021