

Research Projects

On-Going

| Sr. No. | Budget Head | Name of Project / Plan Scheme / Non-Plan Scheme | From |
|---------|-------------|--|------|
| 1 | 3126-02 | Principal, B A College of Agriculture | 2004 |
| 2 | 12926 | Modernization of department of agriculture colleges at AAU | 2004 |
| 3 | 12993-26 | Development of early maturing and high yielding varieties in various fruit crops | 2023 |

Completed

| Sr. No. | Title | Funding Agency | Duration |
|---------|--|--|-----------|
| 1 | Genetic Enhancement of Rainfed and Irrigated Rice yield through Molecular Approaches | Rashtriya Krishi Vikas Yojna [RKVY], GoI | 2007-2012 |
| 2 | Identification and Molecular characterization of genes for nutritional quality and stress resistance in major cereals of Gujarat state | Gujarat State Biotechnology Mission [GSBTM], GoG | 2007-2011 |
| 3 | Bio-efficacy of 'Progibb' on Cotton & Vegetables (Chilli & Tomato) | Other Agency | 2011-2014 |

Technical Programmes (as approved in AGRESCO-CISC)

| Experiment Number | Experiment Title | Status |
|---------------------------------------|--|-----------|
| PB 9.1.1.3 | Screening sesame genotypes for biotic stress resistance | Concluded |
| CI 11.1.2.1 | Morphological and molecular characterization of soybean [<i>Glycine max</i> (L) Merrill.] genotypes | Concluded |
| CI 12.1.2.3 | Evaluation of sesame genotypes in summer season (<i>Sesamum indicum</i>) along with molecular characterization | Concluded |
| CI 13.1.3.3 | MAS for charcoal rot resistance in Sesame (<i>Sesamum indicum</i> L.) | Concluded |
| CI 13.1.3.4 | Evaluation for superior quantitative & qualitative traits in marigold (<i>Tagetes</i> sp.) and peacock (<i>Caesalpinia pulcherrima</i>) hybrids | Concluded |
| CI 14.1.3.1 | Interspecific hybridization for transferring aphid resistance to cultivated mustard [<i>Brassica juncea</i> (L.) Czern.] varieties | Concluded |
| CI 13.1.3.4 | Evaluation for superior quantitative & qualitative traits in marigold (<i>Tagetes</i> sp.) | Continued |
| CI 15.1.3.11 | Identification of molecular markers associated with yellow mosaic disease resistance in Blackgram (<i>Vigna mungo</i> (L.) Hepper) | Concluded |
| CI/Genetics & Plant Breeding /2021/01 | Comparative structural analysis of functional protein associated with nematode resistance in tomato | Continued |

Routine departmental research activities

- ✚ Breeding for higher root yield and carotene in carrot (*Daucus carota* L.)
- ✚ Collection, conservation, multiplication and evaluation of different vegetable soybean (*Glycine max* L.) germplasm
- ✚ Collection, conservation and evaluation of pointed gourd (*Trichosanthes dioca* Roxb.) genotypes for yield and quality traits
- ✚ Breeding for better yield and quality traits in spine gourd (*Momordica dioca* Roxb.) and its *in vitro* multiplication
- ✚ Inter-varietal hybridization in mango (*Mangifera indica* L.)