## Ph.D. (Genetics and Plant Breding) Theses Submitted (2020 to 2025)

| Sr. No. | Title of the thesis | Name of the student | Name of guide |
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| | **2020** | | |
| **1.** | Genetic studies for fruit yield and its components in bottle gourd over environments. | Balat Jignesh kumar | Dr. J. B. Patel |
| **2.** | Genetic architecture of fruit yield and its components in bottle gourd | Hadiya Ankur | Dr. L. K. Dhaduk |
| **3.** | Genetic architecture of seed yield and its components in castor | Movaliya Hardik M. | Dr. V. P. Chovatia |
| | **2021** | | |
| **4.** | Exploitation of heterosis, inbreeding depression, combining ability and gene action for fruit yield and its component traits in bottle gourd. | Patel Himalay R. | Dr. D. R. Mehta |
| **5.** | Detection and estimation of trigenic and linked digenic interaction effects in castor using 21 generations. | Delvadiya Indrajay R. | Dr. R. B. Madariya |
| **6.** | Genetic variability, character association and stability analysis in virginia bunch groundnut. | Barad Sachin H. | Dr. L. L. Jivani |
| | **2022** | | |
| **7.** | Heterosis and combining ability studies in pearl millet [*Pennisetum glaucam* (L). R. Br.] using line x tester analysis over different environment. | Biswajit Lenka | Dr. G. U. kulkarni |
| **8.** | Combining ability and stability analysis using alloplasmic isonuclear lines for yield and biofortified traits in pearlmillet [*Pennisetum glaucam* (L). R. Br.] | Gajera Kishan P. | Dr. K. D. Mungra |
| **9.** | Variability and stability analysis in relation to heat tolerance in bread wheat (*Triticum aestivum* L.) | Patel Nikitaben S. | Dr. J. B. Patel |
| **10.** | Genetic analysis of seed yield and yield contributing traits in medium duration pigeon pea [*Cajanus cajan* (L.) Millsp.] | Jay Khaniya | Dr. G. U. Kulkarni |
| **11.** | Genetic architecture for fruit yield and its components traits in brinjal (*Solanum melongena* L.) over environments. | Chandrakanta Kumawat | Dr. G. U. kulkarni |
| **12.** | Exploitation of heterosis, inbreeding depression, combining ability and gene action for seed yield and its components in sesame (*Sesamum indicum* L.) | Zala Rakesh G | Dr. D. R. Mehta |
| **13.** | Combining ability and genetic component analysis in $F_1$ and $F_2$ generations of pearl millet [*Pennisetum glaucam* (L). R. Br.] | Galani Shyam N. | Dr. R. B. Madariya |
| | **2023** | | |
| **14.** | Heterosis, Combining ability and inbreeding depresion for seed yield and its attributing traits in sesame. (*Sesamum indicum* L.) | Suchitra | Dr. R. B. Madariya |

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| **15.** | Heterosis, Combining ability and gene action for fruit Yield and its Component traits in okra [*Abelmoschus esculentus* (L.) Moench] over environments. | Limbani Harsiddhi B. | Dr. D. R. Mehta |
| | **2024** | | |
| **16.** | Genetic architecture of grain yield and morpho-physiological traits in $F_1$ and $F_2$ generations of bread wheat (*Triticum aestivum* L.) | Vekaria Deep M. | Dr. A. G. Pansuriya |
| **17.** | Genetic analysis through diallel crosses over environments and diversity analysis using SSR markers in durum wheat (*Triticum durum* Desf.) | Hilay Dudhat | Dr. M. G. Valu |
| **18.** | Detection of digenic and trigenic epistasis for fruit yield, its components and quality traits in brinjal [*Solanum melongena* (L.)] | Mavani Sunny V. | Dr. D. R. Mehta |
| **19.** | Heterosis, combining ability and gene action for seed cotton yield and its components in cotton (*Gossypium hirsutum* L.) over environments. | Rajani Chirag J. | Dr. M. G. Valu |
| **20.** | Pattern of molecular diversity and diallel analysis for grain yield and biofortified traits in pearl millet [*Pennisetum glaucum* (L.) R. Br.] | Parmar Manshi I. | Dr. K. D. Mungra |
| **21.** | Estimation of heterosis, inbreeding depression, combining ability and gene action for seed yield and its component trait in pigeonpea [*Cajanus cajan* (L.) Millsp.] | Talatam Ramya Vardhini | Dr. L. K. Sharma |
| | **2025** | | |

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| **22.** | Genetic architecture and stability analysis for yield and component traits and screening for heat tolerance in bread wheat (*Triticum aestivum* L.) | Tejaskumar Borkhatariya | Dr. A. G. Pansuriya |
| **23.** | Genetic diversity and stability analysis in spanish bunch groundnut (*Arachis hypogea* L.) | Godhani Chirag | Dr. R. B. Madariya |
| **24.** | Detection of digenic epistasis and deciphering genomic region for high grain Fe and Zn content using QTL mapping in pearl millet (*Pennisetum glaucum* L.) | Patel Harsh J. | Dr. K D. Mungra |
| **25.** | Genotype x Environment interaction analysis and genome wide association studies to unravel genomic regios governing productivity componenets in pearl millet (*Pennisetum glaucum* (L.) R. Br.) | Chhodvadiya Ruchi J. | Dr. D. R. Mehta |
| **26.** | Heterosis, combining ability, gene action and stability over environments in bread wheat (*Triticum aestivum* L.) | S. Sri Manasa | Dr. A. G. Pansuriya |