

## IN HOUSE PROJECTS 2025

|              | Project Code    | Project Title                                                                                                                                                                    | PIs                   | Co-PIs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|--------------|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Project 1    | NBPGR/DGE-01    | Characterization, Evaluation, Pre-breeding and documentation of Agri-horticultural crops Germplasm                                                                               | Dr RK Gautam          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Sub-Projects | NBPGR/DGE-01.01 | Characterization, Evaluation, Pre-breeding and documentation of Cereal, Pseudocereal and millet Germplasm                                                                        | Dr Jyoti Kumari       | Dr Ashok Kumar, Dr DR Pani, Dr Ishwar Singh, Dr Badal Singh, Dr KS Hooda, Dr RK Gautam, Dr GP Singh, Dr Mamta Arya, Dr Jyoti Kumari, Dr Mamta Singh, Dr Sapna, Dr Mohar Singh, Dr Vikander Kaur, Dr Sundeep Kumar, Dr K Venkatesan, Dr Sushil Pandey, Dr Bhaskar Bajar, Dr M Latha, Dr Vishnu Kumar, Dr Sunil S Gomashe, Dr Subarna Hajong, Dr Kirti Rani, Dr SB Choudhary, Dr Madhubala Priyadarshin, Dr Neelam Shekhawat, Dr P Pranusha, Dr S Nivedhita                                                                                                                                                                                                                                                                                |
|              | NBPGR/DGE-01.02 | Characterization, Evaluation, Pre-breeding and documentation of oilseed and leguminous crops Germplasm                                                                           | Dr RK Gautam          | Dr Shephalika Amrapali, Dr Ishwar Singh, Dr Rashmi Yadav, Dr SK Kaushik, Dr Sandeep Kumar, Dr PP Thirumalaisamy, Dr V Celia Chalam, Dr RK Gautam, Dr Mamta Arya, Dr Archana P Raina, Dr NL Meena, Dr Jameel Akhtar, Dr Mamta Singh, Dr Sapna, Dr Padmavati G Gore, Dr B Parameswari, Dr MK Rana, Dr Mohar Singh, Dr Vikander Kaur, Dr K Venkatesan, Dr Zakauallah Khan, Dr Kuldeep Tripathi, Dr Gowthami R, Dr Kavita Gupta, Dr L Sarvanan, Dr J Aravind, Dr DP Wankhede , Dr M Latha, Dr Hanuman Lal, Dr Sunil S Gomashe, Dr Sandhya Gupta , Dr Bharat H Gawade, Dr Prasanna Holajjer, Dr Subarna Hajong, Dr Kirti Rani, Dr SB Choudhary, Dr Parimalan R, Dr Madhubala Priyadarshin, Dr Neelam Shekhawat, Dr P Pranusha, Dr S Nivedhita |
|              | NBPGR/DGE-01.03 | Characterization, Evaluation, Pre-breeding and documentation of Horticultural and Agro-forestry Germplasm                                                                        | Dr Vinod Kumar        | Dr KP Mohapatra, Dr Suma A, Dr Shephalika Amrapali, Dr Ishwar Singh, Dr K Pradheep, Dr SK Raina, Dr SK Yadav , Dr PK Singh, Dr Pragya, Dr Badal Singh, Dr PP Thirumalaisamy, Dr KS Hooda, Dr Vinod Kumar Sharma, Dr Archana P Raina, Dr NL Meena, Dr Puran Chandra, Dr Sapna, Dr Vartika Srivastava, Dr RC Misra, Dr Era V Malhotra, Dr K Venkatesan, Dr Gowthami R, Dr Pooja Kumari, Dr L Sarvanan, Dr Bhaskar Bajar, Dr Sunil S Gomashe, Dr Sandhya Gupta , Dr Bharat H Gawade, Dr Julius Uchoi, Dr Prasanna Holajjer, Dr Narender Negi, Dr Madhubala Priyadarshin, Dr Vijay Singh Meena, Dr P Pranusha, Dr KM Rai                                                                                                                     |
|              | NBPGR/DGE-01.04 | Evaluation of Agri-Horticultural crops Germplasm for quality Parameters                                                                                                          | Dr Rakesh Bhardwaj    | Dr Sandeep Kumar, Dr Archana P Raina, Dr NL Meena, Dr Sapna, Dr Hanuman Lal, Dr Madhubala Priyadarshin                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Project 2    | NBPGR/DGC-02    | Ex-situ Conservation of Agricultural and Horticultural Genetic Resources in the National Genebank                                                                                | Dr Anju M. Singh      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|              | NBPGR/DGC-02.01 | Ex-situ Conservation of Cereals, Legumes, Oilseed and their wild relatives in the Seed Genebank                                                                                  | Dr Padmavati G Gore   | Dr Anju M Singh , Dr Sherry R Jacob, Dr Chithra Devi Pandey, Dr Anjali Kak Koul , Dr Nidhi Verma, Dr Suman Roy, Dr J Aravind, Dr Kirti Rani, Dr Neelam Shekhawat                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|              | NBPGR/DGC-02.02 | Ex-situ Conservation of Vegetables. Millets, fibre, forages, medicinal and aromatics, ornamentals, narcotics, spices, fruits, nuts and their wild relatives in the seed genebank | Dr Anjali Kak Koul    | Dr Chithra Devi Pandey, Dr Padmavati G Gore, Dr Nidhi Verma, Dr Sushil Pandey, Dr Suman Roy, Dr Kirti Rani, Dr Vijay Singh Meena, Dr Neelam Shekhawat                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|              | NBPGR/DGC-02.03 | Ex-situ Conservation of Vegetatively propagated crops in the in vitro genebank                                                                                                   | Dr Sandhya Gupta      | Dr SM Sultan, Dr Vartika Srivastava, Dr Era V Malhotra, Dr Subhash Chander, Dr Gowthami R, Dr Narender Negi, Dr KM Rai                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|              | NBPGR/DGC-02.04 | Ex-situ Conservation of Agri-horticultural crops and their wild relatives in the cryogenebank                                                                                    | Dr Vartika Srivastava | Dr SK Malik, Dr Era V Malhotra, Dr Subhash Chander, Dr Gowthami R, Dr Sandhya Gupta , Dr KM Rai                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|              | NBPGR/DGC-02.05 | Information Management of National Germplasm Conservation Network and related activities                                                                                         | Dr Hanuman Lal        | Dr Anju M Singh , Dr DR Pani, Dr Mamta Arya, Dr Sherry R Jacob, Dr Chithra Devi Pandey, Dr Vartika Srivastava, Dr Padmavati G Gore, Dr Mohar Singh, Dr Anjali Kak Koul , Dr Era V Malhotra, Dr Subhash Chander, Dr Nidhi Verma, Dr Gowthami R, Dr Sushil Pandey, Dr Suman Roy, Dr J Aravind, Dr M Latha, Dr Sunil S Gomashe, Dr Julius Uchoi, Dr Subarna Hajong, Dr Kirti Rani, Dr Narender Negi, Dr SB Choudhary, Dr Vijay Singh Meena, Dr Neelam Shekhawat, Dr P Pranusha, Dr KM Rai, Dr S Nivedhita                                                                                                                                                                                                                                   |
| Project 3    | NBPGR/DGR-03    | Development and Management of Genomic Resources and Molecular Diagnostics of Agri-horticultural crops                                                                            | Dr Rakesh Singh       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|              | NBPGR/DGR-03.01 | Genomics Assisted Germplasm characterization, genetic mapping and Gene Discovery for Economically Important traits in Cereals, millets and Potential crops                       | Dr Laxmi Sharma       | Dr SK Yadav , Dr SK Kaushik, Dr Sandeep Kumar, Dr Badal Singh, Dr RK Gautam, Dr GP Singh, Dr Rakesh Singh, Dr Jyoti Kumari, Dr Pardeep Kumar, Dr Rakesh Bhardwaj, Dr Jameel Akhtar, Dr Sundeep Kumar, Dr S Rajkumar, Dr Manjusha Verma, Dr Shruti Sinha, Dr Yasin Jashima K, Dr Amit Kumar Singh, Dr Sangita Bansal, Dr Gayacharan, Dr Lalit Arya, Dr MC Yadav, Dr Monika Singh, Dr Zakauallah Khan, Dr Sushil Pandey, Dr Suman Roy, Dr DP Wankhede , Dr Vishnu Kumar, Dr Hanuman Lal, Dr Parimalan R, Dr Neelam Shekhawat                                                                                                                                                                                                               |
|              | NBPGR/DGR-03.02 | Genomics Assisted Germplasm characterization, genetic mapping and Gene Discovery for Important traits in Oilseed and Pulse crops                                                 | Dr Amit Kumar Singh   | Dr Rashmi Yadav, Dr Sandeep Kumar, Dr Rakesh Singh, Dr Rajesh Kumar, Dr Rakesh Bhardwaj, Dr Mamta Singh, Dr Sapna, Dr MK Rana, Dr Vikander Kaur, Dr S Rajkumar, Dr Sheel Yadav, Dr Shruti Sinha, Dr Yasin Jashima K, Dr Amit Kumar Singh, Dr Gayacharan, Dr Monika Singh, Dr Zakauallah Khan, Dr Kuldeep Tripathi, Dr Kavita Gupta, Dr DP Wankhede , Dr M Latha, Dr Sunil S Gomashe, Dr Bharat H Gawade, Dr Parimalan R, Dr Madhubala Priyadarshin                                                                                                                                                                                                                                                                                       |
|              | NBPGR/DGR-03.03 | Genomics Assisted Germplasm characterization, genetic mapping and Gene Discovery for Important traits in Horticultural crops                                                     | Dr Sheel Yadav        | Dr Ambika B Gaikwad, Dr Suma A, Dr Vinod Kumar Sharma, Dr Rakesh Singh, Dr Manjusha Verma, Dr Sangita Bansal, Dr Madhubala Priyadarshin, Dr Vijay Singh Meena                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

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|                  | NBPGR/DGR-03.04       | Molecular Diagnostics for detection of genetically modified (GM) Plants/ derivatives and DNA profiling of crops Verities                                                          | Dr Monika Singh          | Dr Ambika B Gaikwad,Dr Rakesh Singh,Dr Rajesh Kumar,Dr MK Rana,Dr Sundeep Kumar,Dr S Rajkumar,Dr Manjusha Verma,Dr Sheel Yadav,Dr Shruti Sinha,Dr Yasin Jashima K,Dr Amit Kumar Singh,Dr Sangita Bansal,Dr Gayacharan,Dr Laxmi Sharma,Dr Lalit Arya,Dr MC Yadav,Dr DP Wankhede ,Dr Vishnu Kumar,Dr Parimalan R                                                       |
| <b>Project 4</b> | <b>NBPGR/DPQ-04</b>   | <b>Quarantine of PGR under Exchange, Health testing of indigenous PGR, supportive research and related Biosecurity Policy Issues</b>                                              | <b>Dr V Celia Chalam</b> |                                                                                                                                                                                                                                                                                                                                                                      |
|                  | NBPGR/DPQ-04.01       | Detection, Identification and Phytosanitary treatments for fungi and bacteria in quarantine and supportive research                                                               | Dr Jameel Akhtar         | Dr Pardeep Kumar                                                                                                                                                                                                                                                                                                                                                     |
|                  | NBPGR/DPQ-04.02       | Detection, Identification and Phytosanitary treatments for viruses, viroid's and phytoplasma in quarantine and supportive research                                                | Dr V Celia Chalam        | Dr Pooja Kumari                                                                                                                                                                                                                                                                                                                                                      |
|                  | NBPGR/DPQ-04.03       | Detection, Identification and Phytosanitary treatments for insect and mite pests in quarantine and supportive research                                                            | Dr Kavita Gupta          |                                                                                                                                                                                                                                                                                                                                                                      |
|                  | NBPGR/DPQ-04.04       | Detection, Identification and Phytosanitary treatments for nematode pests and weeds in quarantine and supportive research                                                         | Dr Mool Chand Singh      | Dr Zakaullah Khan,Dr Bharat H Gawade,Dr Madhubala Priyadarshin                                                                                                                                                                                                                                                                                                       |
|                  | NBPGR/DPQ-04.05       | Seed Health testing for pest-free conservation of indigenous germplasm and virus indexing of in-vitro cultures                                                                    | Dr Bharat H Gawade       | Dr MC Singh,Dr V Celia Chalam,Dr Pardeep Kumar,Dr Jameel Akhtar,Dr Zakaullah Khan,Dr Pooja Kumari,Dr Kavita Gupta,Dr Sushil Pandey,Dr Sandhya Gupta                                                                                                                                                                                                                  |
|                  | NBPGR/DPQ-04.06       | Quarantine of PGR under Exchange, Phytosanitary treatments and supportive research for material meant for Southern India                                                          | Dr K. Anitha             | Dr N Sivaraj,Dr B Parameswari,Dr L Sarvanan,Dr Bhaskar Bajar,Dr Prasanna Holajjer,Dr P Pranusha,Dr S Nivedhita                                                                                                                                                                                                                                                       |
| <b>Project 5</b> | <b>NBPGR/GEPU-05</b>  | <b>Exchange of Plant Genetic Resources and Agro-biodiversity Policy</b>                                                                                                           | <b>Dr Sunil Archak</b>   |                                                                                                                                                                                                                                                                                                                                                                      |
|                  | NBPGR/GEPU-05.01      | Import, Export and Domestic supply of Plant Genetic Resources                                                                                                                     | Dr Puran Chandra         | Dr Sunil Archak,Dr Pragya,Dr Vandana Tyagi                                                                                                                                                                                                                                                                                                                           |
|                  | NBPGR/GEPU-05.02      | Analysis of Emerging Policy Issues on Agro-biodiversity Management                                                                                                                | Dr GP Singh              | Dr Sunil Archak,Dr Vandana Tyagi,Dr Sherry R Jacob,Dr Puran Chandra,Dr Vartika Srivastava,Dr S Rajkumar,Dr Kuldeep Tripathi,Dr Kavita Gupta                                                                                                                                                                                                                          |
| <b>Project 6</b> | <b>NBPGR/DPEGC-06</b> | <b>Exploration for collection of germplasm of Agri-horticultural crops, maintenance of herbarium, ethno-botanical, biosystematics, diversity mapping and gap analysis Studies</b> | <b>Dr PK Singh</b>       |                                                                                                                                                                                                                                                                                                                                                                      |
|                  | NBPGR/DPEGC-06.01     | Exploration for collection of genetic resources of agricultural crops, their wild relatives and diversity mapping                                                                 | Dr SP Ahlawat            | Dr SM Sultan,Dr DR Pani,Dr SK Raina,Dr PK Singh,Dr PP Thirumalaisamy,Dr Mamta Arya,Dr RK Pamarthi,Dr Soyimchiten,Dr Mohar Singh,Dr PK Malav,Dr DP Semwal,Dr K Venkatesan,Dr KC Bhatt,Dr Pankaj Kannaujia,Dr GD Harish,Dr M Latha,Dr Sunil S Gomashe,Dr Julius Uchoi,Dr Subarna Hajong,Dr Kirti Rani,Dr SB Choudhary,Dr Neelam Shekhawat,Dr P Pranusha,Dr S Nivedhita |
|                  | NBPGR/DPEGC-06.02     | Exploration for collection of genetic resources of horticultural crop species and their wild relatives and diversity mapping                                                      | Dr PK Singh              | Dr Suma A,Dr SK Raina,Dr SK Yadav ,Dr Puran Chandra,Dr RK Pamarthi,Dr Soyimchiten,Dr PK Malav,Dr DP Semwal,Dr RC Misra,Dr KC Bhatt,Dr Pankaj Kannaujia,Dr GD Harish,Dr Subhash Chander,Dr Julius Uchoi,Dr Subarna Hajong,Dr Narender Negi,Dr Vijay Singh Meena,Dr P Pranusha,Dr KM Rai                                                                               |
|                  | NBPGR/DPEGC-06.03     | National Herbarium of Cultivated Plants (NHCP): Establishment, Maintenance, Build-up and taxonomic Studies on Indian Crops Plants                                                 | Dr KC Bhatt              | Dr K Pradheep,Dr RK Pamarthi,Dr PK Malav,Dr DP Semwal,Dr RC Misra,Dr Pankaj Kannaujia,Dr GD Harish,Dr Subarna Hajong,Dr S Nivedhita                                                                                                                                                                                                                                  |
|                  | NBPGR/DPEGC-06.04     | Bio-systematics Studies of Selected indigenous taxa                                                                                                                               | Dr DP Semwal             | Dr K Pradheep,Dr Pragya,Dr RK Pamarthi,Dr Soyimchiten,Dr S Rajkumar,Dr PK Malav,Dr RC Misra,Dr Kuldeep Tripathi,Dr KC Bhatt,Dr Pankaj Kannaujia,Dr GD Harish,Dr Julius Uchoi,Dr Narender Negi, Dr SB Choudhary,Dr KM Rai,Dr S Nivedhita                                                                                                                              |