

Indian Crop Phenome Database

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Project Record
ID: PPJ_100119

Project Details

A chickpea genetic variation map based on the sequencing of 3,366 genomes

Project Information	
Project ID	PPJ_100119
Uploaded By	Rajeev Varshney
Project Title	A chickpea genetic variation map based on the sequencing of 3,366 genomes
Description	This project generated a comprehensive global genetic variation map of chickpea by whole-genome sequencing of 3,366 accessions (3,171 cultivated and 195 wild). It developed a chickpea pan-genome, identified SNPs, structural variants, superior haplotypes, and genomic regions under domestication and breeding selection, and proposed genomics-assisted breeding strategies to improve yield, diversity conservation, and climate resilience in chickpea.
Grant Number	multiple funding sources
Funding Agency	Department of Agriculture and Farmers' Welfare (DAFW), Government of India; Department of Biotechnology (DBT), Ministry of Science and Technology, Government of India; Bill & Melinda Gates Foundation (BMGF); National Key R&D Program of China; Shenzhen Municipal Government, China; National Science Foundation (NSF), USA
Publications (DOI / PMID)	A chickpea genetic variation map based on the sequencing of 3,366 genomes DOI: 10.1038/s41586-021-04066-1
Release Date	May 13, 2026
Project Type	Individual
Consortium Details	

No consortium members registered for this project.

Crop Details



Cicer arietinum

Taxon ID: 3827

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