

Advances in Genomics-Based Tools for Peanut Breeding

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We will discuss new Genomics-based research tools that have been developed for peanut as a part of collaborative efforts, including a new high-quality genome for Virginia-type peanut and downstream efforts to build a peanut pan genome using multiple high-quality genome reference sequences produced for all main cultivated peanut types. The new genome is the highest quality of those tetraploid peanut genomes produced thus far and provides an insight into differences specific to Virginia-type peanut. These tools show promise in revolutionizing peanut breeding, including development and implementation of genomic selection (GS) methods within specific breeding programs.