

8.4 Strengthening regional breeding and extension systems

Studies on genetic diversity and the development of core germplasm collections indicate that greater attention should be given to the strategic use of germplasm resources from different geographic regions as well as wild relatives during breeding programs. At present, several regional breeding projects have successfully combined genomic technologies, controlled-environment screening methods (such as artificial-light cultivation), and field evaluations to develop high-performance radish lines suitable for protected cultivation and cold-region production (Sinyavina et al., 2023). In the future, stronger collaboration among research institutions, agricultural extension services, and farmers will be needed to accelerate the transfer and application of research results in winter radish production.

Author Contributions

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Conflict of Interest Disclosure

The authors affirm that this research was conducted without any commercial or financial relationships that could be construed as a potential conflict of interest.

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