

SABRAO JOURNAL OF BREEDING AND GENETICS

Volume 58 Number 1 | February 2026



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of Breeding Research in Asia
and Oceania

<http://sabraojournal.org>
ISSN 1029-7073 | eISSN 2224-8978

Description: Kasturi tobacco (*Nicotiana tabacum* L.) valued for its aromatic qualities in premium kretek blends, and also facing challenges of genetic degradation, declining soil fertility, and susceptibility to diseases such as *Phytophthora nicotianae*, *Ralstonia solanacearum*, and cucumber mosaic virus (CMV). The comprehensive breeding efforts to strengthen Indonesia's Kasturi tobacco industry have been carried out at the Research Center for Estate Crops, National Research and Innovation Agency, Cibinong, Indonesia. Through cytoplasmic male sterility (CMS)-based hybridization combined with recurrent bulk selection, nine elite genotypes were developed and evaluated during 2020–2022 across three agroecological zones in Jember Regency, Indonesia. Genotypes Dark CK, Dark BK, and Dark AK revealed superior cured leaf yield, quality index, and crop index, while several lines showed robust resistance to soil-borne pathogens. Although CMV susceptibility remains a limitation, stability analysis identified four genotypes with consistent performance across the environments. These findings provide a genetic foundation for export-oriented Kasturi cultivars, supporting Indonesia's goal of reducing tobacco imports and enhancing sustainable production. Information regarding Kasturi tobacco (*Nicotiana tabacum* L.) breeding can be found in the research manuscript of Rochman and Heliyanto (2026). Rochman F, Heliyanto B (2026). Performance of high-yielding and disease-resistant Kasturi tobacco genotypes with enhanced leaf quality for sustainable production. *SABRAO J. Breed. Genet.* 58 (1) 23-32, 2026.

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SABRAO JOURNAL of BREEDING and GENETICS

pISSN 1029-7073; eISSN 2224-8978

Volume 58 Number 1 February 2026

<http://doi.org/10.54910/sabrao2026.58.1>

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SABRAO JOURNAL OF BREEDING AND GENETICS

pISSN 1029-7073; eISSN 2224-8978

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ACKNOWLEDGEMENTS

The Editor-in-Chief would sincerely like to thank the many reviewers for their time and efforts. An updated list of reviewers is maintained on the website.

Thanks to the publishing team for their countless hours of work for this issue.