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Antigenotoxic properties of extracts of representatives of the genus *Monarda* introduced in the Urals

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Due to the fact that many antitumor drugs have genotoxicity, the aim of the study was to evaluate the antigenotoxic properties of extracts of the genus *Monarda* representatives using the *Drosophila melanogaster* model organism as an example. High IDC (Index of DNA-Comets) characterizes 0, 1% extracts of *M. fistulosa* var. *fistuiosa* and *M. fistulosa* var. *menthifolia* when used both individually and together with etoposide. Whereas the extract of *Monarda fistulosa* var. *media* shows antigenotoxic properties by reducing the IDC and showing a unidirectional hypoexpressive effect relative to the *sqh* gene. Thus, the extract of *Monarda fistulosa* var. *media* is the most suitable protector against the effects of the anticancer drug etoposide.

Keywords: Drosophila, Etoposide, Comet-assay, Mosaicism, Expression