

Is there association between MC1R and melanoma risk after controlling for sun?

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There is a well-described association between UV radiation exposure from the sun and the development of melanoma. The development of melanoma independent of sun exposure has only recently been described in mice.

So what is the association between melanocortin-1 (MC1R) receptor and melanoma risk in humans after controlling for [sun exposure](#)?

An article published online by *JAMA Dermatology* by Judith Wendt, M.D., Ph.D., of the Medical University of Vienna, Austria, and coauthors details a hospital-based study they conducted that included genetic testing, questionnaires and other data among 991 patients with melanoma and 800 control patients for comparison.

The study findings suggest carriers of MC1R variants were at higher risk of melanoma independent of their sun exposure.

"Further studies are required to better elucidate the [molecular mechanisms](#) underlying [melanoma](#) development under altered MC1R function," the study concludes.

More information: *JAMA Dermatology*. Published online March 2, 2016. [DOI: 10.1001/jamadermatol.2016.0050](https://doi.org/10.1001/jamadermatol.2016.0050)

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