

Overlapping tumor-specific expression of p53, p16^{INK4a}, and sirtuin 1 in Bowen's Disease: A Case Report

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Abstract

The tumor of a patient with Bowen's disease exhibited expression of the tumor suppressors p53 and p16^{INK4a}(p16), which correlated with cytoplasmic expression of the histone deacetylase sirtuin 1(SIRT1). Epigenetic regulation of p53 and p16 by SIRT1 may play a role in the carcinogenesis of Bowen's disease.

Title:

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Key words :

Bowen's disease, Immunohistochemical stain, p53, p16^{INK4a}, Sirtuin1/SIRT1

Key Clinical Message:

Elucidating the mechanisms of inactivating mutations of *SIRT1* to the tumor suppressor genes *p53* and *p16* in Bowen's disease may not only help to clarify the oncogenic mechanisms but also lead to the development of new molecular targeted therapies.

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