



Bioactive Molecules on Melanogenesis and Melanoma

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Message from the Guest Editor

Melanin is produced by melanocytes distributed in the basal layer of the epidermis, which is a key element of the skin, hair, and eye color. Under normal physiological conditions, melanin exerts beneficially protective effects against harmful ultraviolet (UV) radiation; however, excessive melanin production (hyperpigmentation) causes dermatological disorders such as freckles, age spots, and melisma. In these regards, many attempts to discover medicinal flavonoids, and their derivatives and analogues that inhibit melanin biogenesis (melanogenesis), have been made over several decades. In contrast, an acquired chronic depigmentation disorder such as vitiligo results in functional loss of melanocytes, which makes an individual more vulnerable to UV. In the regard, this Special Issue may cover specialized and interdisciplinary aspects of bioactive compounds regulating melanogenesis, pigmentary disorders and photoprotection in pigmentary cells including melanoma.





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Message from the Editor-in-Chief

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