

Special Issue

Bioactive Molecules on Melanogenesis and Melanoma

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.

Guest Editor

Prof. Dr. Gi-Young Kim

Department of Marine Life Sciences, School of Marine Biomedical Sciences, Jeju National University, Jeju 63243, Republic of Korea

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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

Editor-in-Chief

Prof. Dr. Maurizio Battino

Department of Odontostomatologic and Specialized Clinical Sciences,
Sez-Biochimica, Faculty of Medicine, Università Politecnica delle
Marche, Via Ranieri 65, 60100 Ancona, Italy

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