



Melanogenesis and Melanin-Related Compounds: A Cosmetic Perspective

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Deadline for manuscript
submissions:

closed (31 July 2019)

Message from the Guest Editor

Melanin pigments are one of the main determinants of skin and hair sensitivity to ultraviolet light and susceptibility to sun damage. Moreover, an overproduction or accumulation of melanins can lead to a local excess of pigmentation (hypermelanosis) associated with disorders such as melasma, lentigo, or postinflammatory hyperpigmentation, with a significant medical and aesthetic impact. Melanin pigments are produced in melanocytes by tyrosinase catalyzed oxidation of tyrosine, followed by a complex series of events that are regulated by either enzymatic or non-enzymatic factors. Recent advances in the chemistry of melanins have allowed one to disclose a number of important structure–property–function relationships that are of crucial relevance to the biological role of human pigments, including skin (photo) protection and UV-susceptibility. This Special Issue welcomes original research manuscripts on eumelanin and/or pheomelanin biosynthesis, which represent structures and properties of cosmetic relevance. Articles describing depigmenting activity of natural or synthetic compounds, as well as reviews describing the current state-of-the-art, are also welcome.





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Message from the Editor-in-Chief

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