Melanosome Transport/Transfer and Melanin Pigmentation in the Skin

Guest Editor:

Prof. Dr. Hideya Ando
Department of Applied Chemistry and Biotechnology, Okayama University of Science, 1-1 Ridai-cho, Kita-ku, Okayama 700-0005, Japan
ando@dac.ous.ac.jp

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Message from the Guest Editor

Melanin pigments are produced by melanocytes located in the basal layer of the epidermis and are transferred to keratinocytes. Further, melanin pigments are synthesized only in specialized organelles within melanocytes, termed melanosomes. Those melanosomes move along the cytoskeleton to the dendrites of melanocytes and are delivered to surrounding keratinocytes. Improper melanosome trafficking results in hyper- and hypopigmentary disorders such as melasma, age spots, Hermansky-Pudlak/Griscelli syndrome and vitiligo. In addition, in the dermis of post-inflammatory hyperpigmented lesion, the presence of melanophages containing multiple melanosomes are observed occasionally. Many studies have characterized the mechanisms of melanosome transport in melanocytes and melanosome transfer to keratinocytes, but many unknown factors still remain to be clarified. Through the elucidation of these mechanisms, the development of novel remedies for pigmentary disorders is expected.
Editor-in-Chief

Prof. Dr. Maurizio Battino
1. Department of Odontostomatologic and Specialized Clinical Sciences, Sez-Biochimica, Faculty of Medicine, Università Politecnica delle Marche, Via Ranieri 65, 60100 Ancona, Italy
2. International Research Center for Food Nutrition and Safety, Jiangsu University, Zhenjiang 212013, China

Message from the Editor-in-Chief

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MDPI, St. Alban-Anlage 66
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