

Special Issue

Molecular Mechanisms of the Epidermal Microenvironment in Pigmentation Disorders

Message from the Guest Editor

The epidermal microenvironment is increasingly recognized as a key regulator of pigmentation and a central driver of pigmentation disorders. Rather than being solely attributed to melanocyte dysfunction, conditions such as vitiligo and melasma arise from dysregulated epidermal cell–cell crosstalk, intercellular signaling networks, and interactions with the extracellular matrix, all of which collectively govern melanocyte homeostasis and pigment production. Recent advances have highlighted the importance of coordinated interactions among melanocytes, keratinocytes, and immune cells, as well as the role of extracellular matrix dynamics in shaping the epidermal niche under both physiological and pathological conditions. We welcome contributions addressing epidermal intercellular communication, immune-mediated regulation, extracellular matrix remodeling, and emerging molecular pathways involved in pigmentation disorders. Studies providing mechanistic insights and translational relevance for therapeutic development are particularly encouraged. Both original research and review articles are welcome.

Guest Editor

Dr. Lingli Yang

Department of Pigmentation Research and Therapeutics, Graduate School of Medicine, Osaka Metropolitan University, Osaka 5450051, Japan

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Biomolecules
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
biomolecules@mdpi.com

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Biomolecules is a multidisciplinary open-access journal that reports on all aspects of research related to biogenic substances, from small molecules to complex polymers. We invite manuscripts of high scientific quality that pertain to the diverse aspects relevant to organic molecules, irrespective of the biological question or methodology. We aim for a competent, fair peer review and rapid publication. Please look at some of the exciting work that has been published in *Biomolecules* so far. We would be delighted to welcome you as one of our authors.

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Department of Cellular and Molecular Medicine, Faculty of Health and Medical Sciences, University of Copenhagen, Blegdamsvej 3C, DK-2200 Copenhagen, Denmark

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