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Molecular Signalings in Hair Regeneration

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Message from the Guest Editor

Hair regeneration can occur through hair cycle activation, niche environment regulation, and wound-induced hair follicle neogenesis (WIHN) and may be utilized to treat alopecia. Hair regeneration is regulated by multiple signaling pathways, such as the Wnt/β-catenin, Sonic hedgehog (SHH), and PI3K/Akt signaling pathways. In particular, WIHN was found to be significantly induced by the activation of the Wnt/β-catein and SHH pathways. Ultimately, in-depth studies of the molecular signaling pathways involved in hair regeneration may provide new fundamental treatments for alopecia.

This Special Issue will provide a collection of original research and review articles on molecular signaling pathways in hair regeneration that may ultimately contribute to the treatment of alopecia. Potential topics include the role of molecular signaling pathways in hair regeneration; multiple signaling pathways regulating WIHN; the relationship between hair follicle development and regeneration; molecular signaling pathways as therapeutic targets for alopecia; development of new treatments by controlling signaling involved in hair regeneration.

Dr. Soung-Hoon Lee

Guest Editor

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