Special Issue

Fibrosis vs Regeneration of Skin

Message from the Guest Editors

When adult animals suffer a wound, scars form upon healing. In humans, depending on the constitution and the circumstances of the wound, a keloid may grow instead. By contrast, fetus skin regenerates completely up to a certain developmental stage. In addition, in some animal species, the phenomenon of hair follicles regenerating in the center of large wounds has been reported. With regard to skin, fibrosis and regeneration are two mostly separate phenomena. Complete regeneration means regeneration of the three-dimensional structure of dermal extra cellular matrix (ECM), hair follicles, skin appendages, and skin texture, but regeneration of ECM and skin texture are thought to be regulated by different mechanisms. In this volume, we will consider what promotes or hinders complete skin regeneration from these different perspectives.

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