English

Products

Web of Science™

Smart Search







Results for AGING AND WO... >

MENU

Aging and Wound Healing of the Skin: A Review of Clinical and Pathophysiol...



Aging and Wound Healing of the Skin: A Review of Clinical and Pathophysiological Hallmarks

By Khalid, KA (Khalid, Kamarul Ariffin); Nawi, AFM (Nawi, Ahmad Faris

Mohd); Zulkifli, N (Zulkifli, Nuraqilah); Barkat, MA (Barkat, Md. Abul)

; Hadi, H (Hadi, Hazrina) View author identifiers such as Web of Science ResearcherID or ORCID.

View Web of Science ResearcherID and ORCID (provided by

Clarivate)

Source LIFE-BASEL

Volume: 12 Issue: 12 DOI: 10.3390/life12122142

Article Number 2142

Published DEC 2022

Indexed 2023-01-04

Document Type Review

Abstract Aging is a universal process that can cause diminished function

of organs and various diseases. The most striking consequences of aging can be seen visibly on the skin, which acts as a barrier against various external insults. Aging of the skin consists of intrinsic and extrinsic processes that work in concert and influence each other. Intrinsic aging involves biochemical degenerative processes that gradually takes place with age. Extrinsic aging are biochemical processes driven by external

influences that lead to aging. There are significant morphological changes at all levels in aged skin that have a profound effect on the characteristics of the skin. Even though skin is subjected to damage by external insults, it is equipped with a healing capability in order to restore its normal structure and function. However, aging has a significant impact on the skin's healing function by prolonging the inflammatory phase and increasing the production of reactive oxygen species (ROS). This shifts the healing process towards having more protein degradation, which can lead to chronic wound healing with an abundance of complications.

Keywords

Author Keywords: intrinsic aging; extrinsic aging; wound healing; aged

skin

Keywords Plus: EXTRACELLULAR-MATRIX; FIBROBLAST FUNCTION; PROTEOGLYCANS; INFLAMMATION; STRESS; REPAIR

Addresses

- ¹ Kulliyyah Med, Dept Orthopaed Traumatol & Rehabil, Kuantan 25200, Malaysia
- ² Sultan Ahmad Shah Med Ctr SASMEC IIIIM Dept Orthogaed Traumatol & Rehabil, Ku View author identifiers such as Web of Science ResearcherID or ORCID.
- ³ Int Islamic Univ Malaysia, Kulliyyah Pharm, Dermatopharmaceut Res Grp, Kuantan 25200, Malaysia
- ⁴ Univ Hafr Al Batin, Coll Pharm, Dept Pharmaceut, Hafar al Batin 39524, Saudi Arabia
- ⁵ Int Islamic Univ Malaysia, iKOP Pharm Sdn Bhd, Kuantan 25200, Malaysia

Categories/ Classification

Research Areas: Life Sciences & Biomedicine - Other Topics; Microbiology

Citation 1 Clinical & Dermatology - Aging Processes

General 1.158

1.158.1308 Skin Aging Processes

Sustainable Development Goals: 03 Good Health and Well-being

Web of Science Categories

Biology; Microbiology

+ See more data fields