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(CADD) makes use of the structural knowledge of the target to facilitate the determination of promising candidate drugs. CBDD, when combined with CADD, may prove to be a stepping stone towards the development of new biologically active molecules against specific targets. Keywords: Heterocycles, Conjunction Based Drug Design, Molecular Hybridization, Synthetic procedures, Computer-Aided Drug Design

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ROLE OF APOPTOSIS IN PSORIASIS

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ABSTRACT

Apoptosis is a process of programmed cell death that preserves homeostasis of the skin. Apoptotic cell death regulates keratinocyte expansion and development of stratum corneum. The procedure in which keratinocytes undergo apoptosis is a planned multistep system mediated by binding of certain death ligands to death receptors or by the release of effector cell granules. Dysfunctional apoptosis comes with right that is important in the development of several epidermis conditions. Psoriasis is a common chronic inflammatory skin disease certainly common seen as hyper-proliferation with incomplete differentiation of epidermal keratinocytes and reduced keratinocyte apoptosis. Psoriasis is genetically set pathologic connection among skin cells, immunocytes and biologic signaling molecules which is being triggered by ecological stimuli. The immune reaction is a cellular one; type 1 (TH1) and type 17 (TH17) T cells tend to be triggered by IL-12 and IL-23 which is released by antigenpresenting cells (APCs) in the skin. These cells cause a chronic inflammatory state change alter epidermal hyper proliferation, differentiation, apoptosis, and neoangiogenesis that produce the cutaneous conclusions seen in this disease through different cytokines, such as tumor necrosis factor (TNF) α. Short wave ultraviolet (UVB) phototherapy the most common treatments for considerable psoriasis and may cause long-lived remissions which are clinical. Apoptosis is apparently a primary mechanism involved in this depletion of T cells in lesions from epidermis and dermis. In self-renewing tissue like the epidermal layers of the skin, cell numbers are tightly regulated by a balance between proliferation, differentiation, and cell death. This paper shall review the different forms of cell death within the skin and discuss the role of apoptosis

Keywords: Apoptosis, Psoriasis, TNF- α, TH1 & TH17, Hyper-proliferation, neoangiogenesis in psoriasis.