

عنوان مقاله:

Role of Integrins in Wound Repair and its Periodontal Implications

محل انتشار:

سومین کنگره بین المللی و پنجمین کنگره ملی زخم و ترمیم بافت (سال: 1397)

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خلاصه مقاله:

Wound healing in human periodontium is a complex process which involves both cell-cell and cell-matrix interactions. Integrins play a major role in regulation of these cell-cell, cell-matrix interaction. Wound healing involves two major events i.e. re-epithelialization and connective tissue repair. In this concise review, we will discuss the role of integrins in these major events as well as their implications in periodontal wound repair. Integrins are differentially expressed in both of these major events. In re-epithelialization, keratinocytes express novel integrins receptors $\alpha v \beta 1$, $\alpha 5 \beta 1$ and $\alpha v \beta 6$ which are not expressed in normal healthy epithelium. Re-epithelialization also involves interaction of integrins with TGF- β and fibronectin. Similarly, in connective tissue repair, the activation of fibroblast as well as the expression of integrins $\alpha 5 \beta 1$ and $\alpha 3 \beta 1$ is upregulated. In healthy periodontium, integrin $\alpha v \beta 6$ is normally expressed in junctional epithelium which is generally expressed only at wound sites in other parts of the body. The epithelialization at implant surface has not been yet fully explored with respect to interactions among integrins and other extra-cellular matrix molecules.

کلمات کلیدی:

Fibroblasts, Integrins, Keratinocytes, Periodontium, Wound Repair

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