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(57) Abstract :

The present invention relates to the development of hydrogel in the field of tissue engineering which is a combination of Chitosan, Moringa oleifera and Trigonella foenum-Greacum. It precisely aims to enhance the cell proliferation of osteoblast-like cells in-vitro. It particularly relates to hydrogel formulation with combination of Chitosan, Moringa oleifera and Trigonella as a potential implant surface treatment scaffold. More specifically, it relates to hydrogel formulation with combination of Chitosan, Moringa oleifera and Trigonella as a potential implant surface treatment scaffold is promoting and shortening of osseointegration time with quicker, stronger and predictable bone formation, ensuring better stability and thereby allowing implant placement with more freedom and extentivity. This invention also relates to the the process for preparation of hydrogel formulation with combination of Chitosan, Moringa oleifera and Trigonella as a potential implant surface treatment scaffold.

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