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Research Article

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A New Horizon in Biocompatible Membrane: The Role of Collagen and Silk Fibroin in Tissue Regeneration-Case series

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Author(s): Jyoti T Naik, Rudrakshi C* and M L V Prabhuji

Background: Silk extracted from the silkworm is prized for its exceptional biological and mechanical qualities for its versatility in multiple fields as a biomaterial, most prominently showcased in bone tissue engineering scaffolding. In recent times, silk protein-derived biomaterials have been utilized as scaffolds for guiding bone regeneration. Bovine collagen is se ...

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Transcriptional profiling reveals fundamental differences in iPS-derived CD34+ Cells versus adult circulating CD34+

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Author(s): Elmira Jalilian*, William Raimes and Roberto Martinez Macias

CD34+ cells hold significant promise in regenerative medicine and the treatment of various vascular degenerative diseases primarily because of their ability to regenerate and differentiate into various cell types. These cells can be derived from embryonic stem cells (ESCs), induced pluripotent stem cells (iPSCs), or adult stem cells like blood and bone marrow, and can ...

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Mini Review

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The Definition of Individual Biological Fitness

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Author(s): Gustavo Gollo*

“Fitness” is one of the central concepts in biology. Despite this, the concept is still not clearly defined. Previous attempts at definition refer to what should be called an individual’s “potential fitness,” or, when mathematized, the relative fitness of genetic alleles. In contrast, the present work defines the actual fitness of an individual, exactly what is referr ...

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