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Knee stem cells and scaffolds: a regenerative medicine and tissue engineering application

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Knee OsteoArthritis (OA) is a very disabling and debilitating condition that can negatively impact the Quality of Life (QoL) for patients. While the pathophysiology of the degenerative process remains not clearly elucidated, several prominent factors have been identified that perpetuate the process and lead to progression of the disorder. While current traditional treatment modalities do not alter the progressive nature of degenerative knee osteoarthritis, newer Regenerative Medicine strategies such as stem cell therapy and various scaffolds have been incorporated into a tissue engineering approach. Various stem cell and scaffolding techniques will be discussed, as well as original research into a matrix derived scaffold used to treat knee osteoarthritis.

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