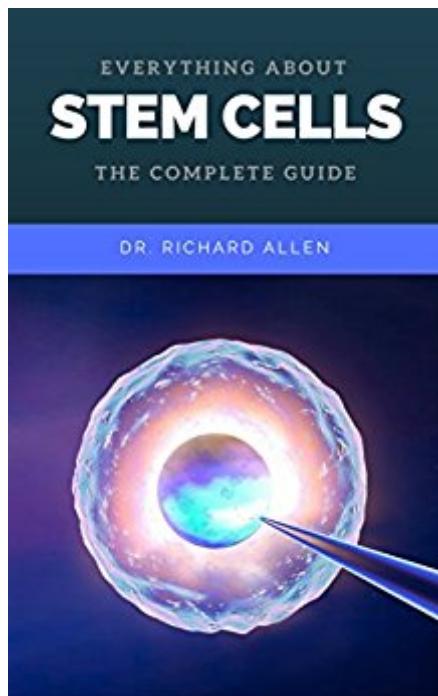


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# Everything About Stem Cells: The COMPLETE GUIDE



## Synopsis

Over the last few decades a new branch of regenerative medicine was discovered which uses stem cells in its therapy. The concept of cell therapy is to replace or repair damaged cells with healthy cells. Stem cells have the potential to repair damaged or diseased tissues, thus replacing them with healthy new cells. This property makes stem cells appealing for scientists seeking to create medical treatments that replace lost or damaged cells. Scientists believe stem cells are the future of medicine and all over the world researches are conducted to test the possibilities of replenishing tissues. They give us hope for curing diseases like Alzheimer's disease, cancer, diabetes and Parkinson's disease, which affect millions of people in the world and have no cures. When scientists fully understand and explore all the secrets of stem cells, a new revolution in medicine will appear. Functional, mature differentiated cells have lost their ability to reproduce. Therefore, when such cells are destroyed, other mature cells cannot fill the empty gap. Stem cells, in contrast, have the ability to self-renew for indefinite periods. Upon cell division, each new cell has the ability to remain a stem cell or eventually differentiate into a cell gaining a specific function, such as a nerve cell, a muscle cell etc.

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