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A stem Cell can reproduce on its own. It can break into similar or even completely different ones as well. It's units also perform some repair work for various other cell divisions inside a living body.

So why is this cell so important? During reproduction, all the inner ones result in formation of the various parts of the body like heart, lungs, kidney, etc. A Stem Cell helps in protecting such organs from diseases, injuries, wear and tear.

Doctors apply various cell based therapies especially on human beings. Diabetes, Heart disease, Cardiac Infarction, Ulcer, etc. can be treated through such healing. As a Stem Cell has special characteristics, the diseases are cured in lesser time.

One of the distinctiveness of this unit is its capability to reprogram itself to suit the new tissue environment but also get back to its earlier form. Now that's interesting! Isn't it?

Let us now concentrate on the various kinds which scientists work with in humans and animals.

Embryonic

Adult

Induced pluripotent

Not only do these help them invent newer ways to research but also reproduce them at laboratories.

There are various therapies available in the market. They help boost up production of new skin cells, soften your skin, increases collagen production, improve texture and elasticity of the skin.

A newer concept has evolved recently, called Stem Cell Banking. This helps people to bank their units for future usage increasing the longevity of the human life but over the years these grow old and a number of bad-formation occurs.

If you are interested in research of this important section of biology, you can apply for grants to the government agencies. The National Institute of Health offers various options in this honor.

There are restrictions in various countries regarding the whole matter. Funding is a huge problem as very few people know about this. Privatization of research is required at once and countries like India are unwilling to do so. Cost is also a big headache.

Stem Cell research has always been and continues to be a cause of distress for the Catholic Church. They believe this system kills human beings thus opposes funding for the same. Thus scientists and researchers face tremendous difficulties regarding the matter.

Among all of these positives and negatives, creation of clones which is the next big step for various life developments is caused through a Stem Cell.

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