

## History & Future - Know the Stem Cell Technology

### Know the Stem Cell Technology

The stem cell technology is the latest as far as the medical field is concerned and there is lot of excitement happening around this particular method of treatment. Let us know more about this treatment...

Every lifestyle brings diseases and ailments as complimentary gifts for us. With so many advancements and technologies in place, we also have diseases and ailments that are also modern and as complex as our life. Due to stress, we face stress related issues like baldness, ailments like blood pressure and so on. However, the good news is that with every ailment and problem, we do come up with a solution. For example, the misfortune of baldness is now curable! There are many other ailments like cancer that can be treated with the help of the latest stem cell technology.

The stem cell technology is the latest as far as the medical field is concerned and there is lot of excitement happening around this particular method of treatment. Let us know more about this treatment...

### Know what is a Stem Cell?

Stem cells are nothing but biological cells that can divide and differentiate in order to produce more cells in our body. Stem cells can be taken from many sources like the umbilical cord or from the bone marrow of a person. Stem cells are unique and serve as a source to repair our internal system by dividing and creating new cells to help us survive.

Stem cells come from two main sources in our body; embryological stem cells are the ones that are formed during the development of embryos during the blastocyst phase of pregnancy and adult tissues that are adult stem cells.

Both of these stem cells differentiate into different cells of our body like the skin, hair and so on.

### What is stem cell technology?

Stem cell technology or SC is a new technology that takes human cells and develops new cells of any of the 220 varieties that are present in our bodies. The cells used in this technology include those in our blood and brain.

The stem cell technology uses the tissue found in our bone marrow to treat diseases like leukemia, cancer, Parkinson and several others.

### Discover the secret behind Stem cell technology

Around 1800s it was found out that humans have stem cells in the bodies that had the capacity to regenerate. In 1900s, physicians administered the bone marrow in the mouth of patients suffering from anaemia and leukemia. Initially such experiments did not yield much result. Later experiments were conducted on mice with defective bone marrow wherein blood stream of bone marrow from other mice were injected in those with defective ones. This experiment proved successful and since then research is being done to find out ways to cure different ailments that humans suffer.

Research is still on to find out how an organism develops from a single cell and how do the healthy cells replace the damaged ones in our bodies. Scientists are screening new drugs with the help of stem cells and are trying to develop systems to study defects and causes of the ailments that we face today.

Stem cell technology helps in getting rid of chronic diseases and is been proved as one of the safest methods to treat ailments. Stem cell technology is indeed here to stay and is sure to cure many ailments. Stem cell technology is definitely a break-through in medical science.

Save a PDF and you save a tree! Try not to take a print of me!

[← back](#) [next →](#)

### Journal Entry: Stem Cell Question(s)

There has been controversy surrounding the ethics of researching the use(s) of stem cells. For the majority, the controversy has surrounded the use of embryonic stem cells, not bone marrow cells. As you can imagine the use of human embryos (fertilized egg after conception) has its challenges.

After reading the article what is your opinion of the use of stem cells in medicine and the further development of this technology? Do you feel there are some considerations that need to be considered or not and why?