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"Magical Organ": Cloning of organ to be used in a Transplant

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Cloning advocates have touted this type of science as therapeutic cloning. This is different from reproductive cloning since therapeutic cloning deals with embryos only. If you wanted to keep living, doctors obviously couldn't remove your heart and clone a new one. Cloning yourself in order to use the clone's organs wouldn't fly either. Here's where stem cells come in, along with recent scientific breakthroughs that sidestep cloning altogether. Scientists could potentially clone organs with SCNT by cloning embryos, extracting the stem cells from the blastocyst, and stimulating the stem cells to differentiate into the desired organ. Xenotransplantation, or transplanting animal organs into humans, has also been examined as a potential source for organ transplants. But if our bodies sometimes reject transplanted organs from other humans, how would they react to animal organs? Future stem cell development for growing replacement organs may not even require cloning.

Recent Publications:

1. Karantalis V, 2014, Nasser BA, 2014, Heldman AW, 2014, Hare JM, 2012 (Etude Poseidon)
2. Fisher SA, Brunskill SJ, Doree C, Mathur A, Taggart DP, Martin-Rendon E., Stem cell therapy for chronic ischaemic heart disease and congestive heart failure, Cochrane Database Syst.

Biography

Sukumar Sandeep is a first year Medical student. His research interest is Cloning of Human Heart though as a student he cannot proceed his research in cloning. but his major research is to conduct a Human heart cloning which will save thousands of life

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