HindustanTimes-Print Page 1 of 1



Charu Sudan Kasturi, Hindustan Times Email Author New Delhi, May 23, 2011

First Published: 15:28 IST(23/5/2011) Last Updated: 15:33 IST(23/5/2011)

IIT Kanpur, US scientists pioneer heart cells rev

Science cannot bring the dead back to life – but scientists have created the world's first fix for resuscita pave the way for a dramatic reduction in repeated heart attacks.

Indian Institute of Technology Kanpur scientist Bikramjit Basu and researchers at Brown University in a small synthetic structure that regenerates natural heart tissue cells called cardiomyocites and neurons

"This can regenerate those heart cells that have died in previous heart attacks," Basu told *HT*. The find Biomaterialia are presently yet to be tested through clinical trials, Basu said. Scientists will now condu do to dead heart cells what stents do for blocked arteries," Basu added.

Each time a person suffers a heart attack, a part of his heart dies. The death of nerve cells in the wall of beating at the right rhythm cannot be reversed at present by surgeons. This dead chunk weakens heart I future repeat attacks.

Hundreds of thousands of patients across the work each year are believed to suffer from heart attacks li heart muscle from a previous attack.

But the new research -- funded by fine institutions including the Indian government and IIT Kanpur – l millions of heart attack patients avoid a repeat.

The scientists used a polymer to stitch together helical-shaped carbon tubes of diameters so small that as a human hair strand, creating a mesh about 2 cm long and as wide as a human hair strand.

When the nanofibers were seeded with natural heart tissue cells, five times as many cells colonized the

http://www.hindustantimes.com/StoryPage/Print/700967.aspx

© Copyright 2010 Hindustan Times