OAKLAND UNIVERSITY

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Stem Cells Help Regrow Cartilage

Stem cells may revolutionize modern medicine. **Oakland University** Professor **Rasul Chaudhry**, of the **Department of Biological Sciences** and his team found that **Chondrogenic derivatives of embryonic stem cells seeded into 3D polycaprolactone scaffolds generated cartilage tissue in vivo** (**Tissue Engineering Part A**, vol. 14, pp. 1403-1413, 2008). Two of the coauthors (Ardit Kacorri and the lead author Chris Fecek) were undergraduate students at OU when the research was performed, and one coauthor (Adrian Vasquez) was a graduate student in the masters program. The study concluded that "ESC [embryonic stem cell] derivatives can be implanted to generate damaged cartilage tissue. In vitro-generated structural tissue grafts could therefore assist in cases of cartilage degeneration or injury such as osteoporosis, degenerative disc disorders, and sports injuries."

SUMMARY
Stem cells may revolutionize modern medicine. Oakland University Professor Rasul Chaudhry, of the Department of Biological Sciences and his team found that Chondrogenic derivatives of embryonic stem cells seeded into 3D polycaprolactone scaffolds generated cartilage tissue in vivo.

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