

# **Cell-based therapies and tissue engineering.**

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## **Abstract:**

Tissue engineering is a rapidly evolving discipline that may someday afford surgeons a limitless supply of autologous tissue for transplantation or allow in situ tissue regeneration. A number of biologic, engineering, and clinical challenges continue to face tissue engineers and surgeons alike. One important example is the choice of an appropriate cell scaffold that promotes growth and is eventually resorbed by the body. Although the application of bioengineered tissue is specific to the anatomic areas of interest, continued advances bring tissue engineering closer to reality in all areas of otolaryngology.