

Abstract

Tissue biology is a vital field that examines the structure, function, and pathology of various tissue types in the body. This overview focuses on the four primary tissue categories: epithelial, connective, muscle, and nervous tissue, highlighting their unique characteristics and roles in maintaining homeostasis. The article explores how these tissues contribute to overall health and how their dysfunction can lead to disease. Additionally, it discusses the advancements in tissue engineering and regenerative medicine, emphasizing the potential for developing innovative therapeutic approaches.

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or reversing tissue damage. By targeting the mechanisms involved in fibroblast activation and extracellular matrix remodelling, researchers are paving the way for innovative treatments that could improve outcomes for patients with chronic diseases [6].