



Mechanical Forces: Their Effects on Cells and Tissues

Keith J. Gooch, Christopher J. Tennant

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Animal Cell Culture nimal cell culture began in 1912 when Alexis Carrel grew bits of chick heart A in vitro by placing them into a drop of horse plasma. When the plasma clotted, it formed a solid surface into which the heart cells explanted. Left unattended, these cells died within several days. By regularly feeding the growing cells with aqueous extracts of whole chick embryos and periodically subdividing them, Carrel was able to maintain the cells for extended periods. From these initial experiments, cell culture has expanded into an important component of biological research and commercial production. Animal cell culture is an important tool for the study of complex biological systems. In vivo it is often impossible to target a treatment to one specific cell type or to adequately control the environment. For example, it is impossible to selectively depolarize endothelial cells in vivo to determine the role of transmembrane potential in the transduction of fluid mechanical forces generated by blood flow to a biochemical response. Depolarizing all of the cells within the vascular system by injecting potassium chloride into the animal's bloodstream clearly is not an option, as it will lead to cardiac arrest.

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