



Cellular Response to Biomaterials (Woodhead Publishing Series in Biomaterials)

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The response of cells to biomaterials is critical in medical devices. Traditionally inert biomaterials were used to minimise the reaction in cells in contact with the material. However, it has been realised that specific cell responses may be beneficial in such areas as encouraging adhesion, healing or cell multiplication. Cellular response to biomaterials discusses the response of cells to a wide range of biomaterials targeted at specific medical applications.

Part one discusses cell responses to a variety of polymers and ceramics with chapters on such topics as degradable polymers and biocompatibility. Part two covers cell responses and regenerative medicine with coverage of themes such as vascular grafts, nerve repair and Bioglass®. Part three examines the effect of surfaces and proteins on cell response. Specific chapters review nano-engineered surfaces, the influence of plasma proteins on bone cell adhesion and surface modification of titanium implants.

With its distinguished editor and team of international contributors, Cellular response to biomaterials is an essential read for those researching or studying medical devices in industry and academia.

- Examines the response of cells to a wide range of biomaterials targeted at specific medical applications
- Discusses cell responses and regenerative medicine with specific chapters on vascular grafts and nerve repair
- Assesses the effect of surfaces and proteins on cell response including the influence of plasma proteins on cell adhesion and surface modification of titanium implants

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