

Robert A. Freitas Jr.

Nanomedicine

Volume IIA: Biocompatibility



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Fields of interest:

Biochemistry, Cytology, Immunology,
Hematology, Chemistry, Laboratory,
Internal Medicine, Medical Engineering,
Infectious Diseases, General Medicine

The safety, effectiveness, and utility of medical nanorobotic devices will critically depend upon their biocompatibility with human organs, tissues, cells, and biochemical systems.

In this second volume of the Nanomedicine technical book series, the definition of nanomedical biocompatibility is broadened to include all of the mechanical, physiological, immunological, cytological, and biochemical responses of the human body to the introduction of artificial medical nano-devices, whether 'particulate' (large doses of independent micron-sized individual nanorobots) or 'bulk' (nanorobotic organs assembled either as solid objects or built up from trillions of smaller artificial cells or docked nanorobots inside the body) in form.

The primary intended audience of this volume is biomedical engineers, biocompatibility engineers, medical systems engineers, research physiologists, clinical laboratory analysts and other technical and professional people interested in the future of medical technology.

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