
SECTION 2.2

Host Reaction to Biomaterials and Their Evaluation

OUTLINE

Introduction to Biological Responses to Materials

Inflammation, Wound Healing, the Foreign-Body Response, and Alternative Tissue Responses

Innate and Adaptive Immunity: The Immune Response to Foreign Materials

The Complement System

Systemic and Immune Toxicity of Implanted Materials

Blood Coagulation and Blood–Material Interactions

Tumorigenesis and Biomaterials

Biofilms, Biomaterials, and Device- Related Infections