Module 5 Assignment

585.751 Immunoenginnering

1. Describe the stages of normal wound healing, including the time course and major cellular players of each stage (1-2 sentences for each stage).

How is this process impacted by biomaterial implantation? (40 points)

1. Explain frustrated phagocytosis.

How can it still lead to biomaterial degradation by macrophages and neutrophils?

How does macrophage frustrated phagocytosis lead to the formation of foreign body giant cells and what is their role? (30 points)

1. Discuss potential mechanisms for and differences between hyperacute, acute, and chronic rejection of a transplanted organ. (30 points)