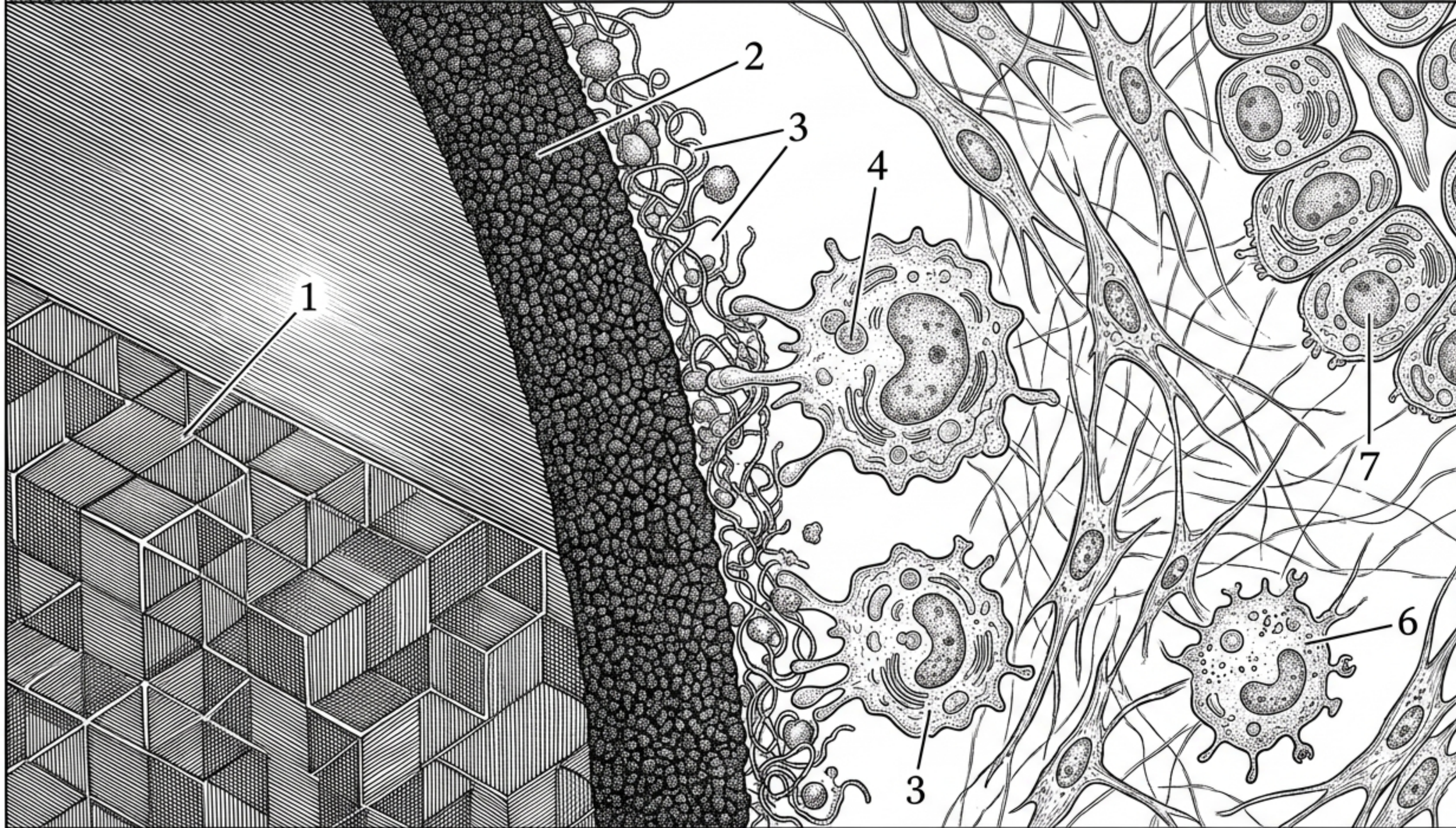




1. Body-Centered Cubic Microstructure
2. Dense TiO_2 - Ta_2O_5 Oxide Layer
3. Endogenous Protein Adsorption Layer
5. Extracellular Matrix Remodeling
7. Osteoblast Cell Proliferation

3. Endogenous Protein Adsorption Layer
4. Focal Adhesion Signaling Activation
5. Extracellular Matrix Remodeling
6. M2 Macrophage Polarization
7. Osteoblast Cell Proliferation

The nanometre-thick oxide layer resists corrosive body fluids and promotes spontaneous apatite nucleation.

ENGINEERED SURFACE OSSEOINTEGRATION AND STABILITY