

MS Scholarly Paper Presentation

Biomaterials for Cochlear Implants: A Review

Susheela Meyyappan

Advisor: Nathalia Peixoto

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Abstract:

The purpose of this paper is to provide a brief overview of cochlear implants and to discuss issues associated with their implantation. Recent research in biomaterials for cochlear implants that address these issues is presented. These methods include dexamethasone-releasing implants, hydrogel coating, collagen sheet, injectable peptide-based hydrogel, textured nanocrystalline diamond surface, and patient-specificity.