



Name: Amanda Schmidt

Name of the project: Fibre Reinforced Aortic Heart Valve

Abstract of the project: Development of fibre reinforced aortic heart valve, from silk fibroin and elastin-like polymers. Specific objectives involve the successful development of valve's fibre reinforcement, from Spintex's silk, ensuring mimetic mechanical properties, structural anisotropy, and cytocompatibility.

Introduction of the ESR: Mechanical Engineer with a Master of Science degree from Trinity College Dublin. Experience with biomaterials and biopolymers for medical and advanced applications

Keywords: Tissue Engineering; Heart Valve; Biomaterials; Silk.

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