

**BHE-022**  
**Ink Jet Printing of Therapeutic Agents**

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**Abstract**

The specific technical aim of this project is to investigate cell response to gradient patterns of immobilized growth factors. The long-term goal is to use this knowledge to create more effective tissue engineering therapies for wound healing applications. An ink jet printing methodology will be used that can produce high-resolution patterns of growth factors (GFs) on biomimetic substrates. The test-bed model will be MG63 cell response *in vitro* to printed patterns of FGF-2 on fibrin films.