

## **NOVEL MAGNETIC GEL PLATFORM FOR TRANSPLANTATION (BIRAD)**

[Orit Shefi](#), Bar-Ilan University, Engineering

### **The Problem**

Mimicking the nature composition and structure of tissues is a considerable challenge in medicine. Currently this can be partially achieved with prefabricated implants.

### **The Solution**

Prof. Shefi's team invented a novel approach of injectable biomaterials, to be incorporated directly into the injured site.

### **The Commercial Benefit**

Advantages:

- Directly injectable without full operation
- Effectively promotes and directs neuronal growth
- Eliminates damage to patient's neurons
- Applicable beyond nervous system

### **Market Potential**

The nerve repair market will reach USD 10B in 2022. The demand for viable solutions enjoys rising awareness, increasing incidence rate, favorable government funding and reimbursement policies, and continual technological advances offered by the key players of the industry.

### **Target Markets/Industries**

Nerve repair and regeneration market

### **Intellectual Property**

Patent pending

### **Team: Primary Inventor**

Prof. Orit Shefi

Prof. Orit Shefi is a member of the Nano Medicine Center at the Institute of Nanotechnology and Advanced Materials (BINA), and an Associate Professor in the Faculty of Engineering.

Prof. Shefi has developed novel technologies for gene and drug delivery to study neurodegenerative diseases, and neuronal and skin regeneration.

### **Future Research**

Behavioral experiments are ongoing.

### **The Opportunity**

We are looking for investors that are willing to support the research and commercialize this novel invention.

### **Contact for more information:**

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