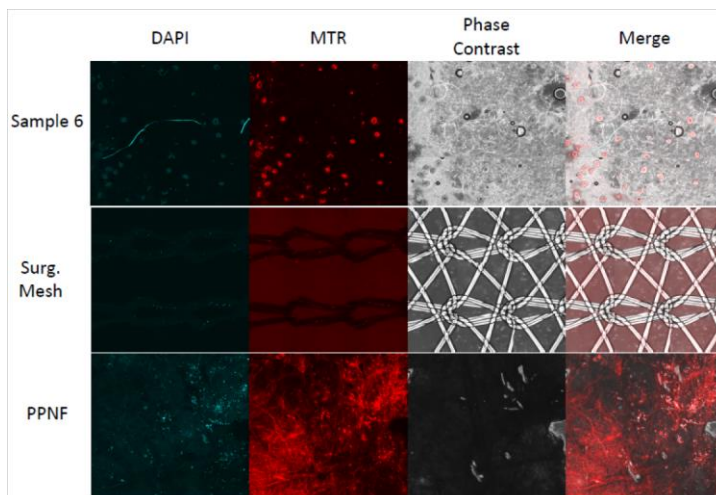




## Polyolefin Fibers for Skin Regeneration and Implant

The use of prosthetic surgical mesh has become very common for wound repair after surgery. Commercial surgical mesh products have high reliability in terms of their chemical, physical and biological inertness, nontoxicity, stability and non-immunogenicity, but these products severely lack in catalyzing quicker cell growth. However, research has shown that use of nanofiber structures in making surgical meshes may be fix this problem because nanofibers act as scaffolds for faster tissue growth.

This invention uses melt-spun polyolefin fine fibers to develop a new kind of nanofibrous surgical mesh suited for skin regeneration and mesh implantation, especially in abdominal wall repairs. These nanofibers are produced using Forcespinning™ technology.



(image source: inventor)

For further information regarding this Technology please contact:

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### Competitive Advantages

- Improved patient outcome through increased cell proliferation and healing
- Re-purposing of proven Forcespinning™ technology
- Easy to manufacture small-gauge nanofiber mats and treat with antibacterial/antifungal properties

### Commercial Applications

- Scalable production
- Higher yield rate
- Avoidance of electrospinning method and equipment cost
- General use bio-medical products, such as burn care aids, general wound healers

### IP Status

- Patent pending
- Licensing available

### Status of Development

- Prototyping stage

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