Materials that Promote vascular growth in mammals

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Technology description

Brief Description:A group of materials that react with body fluids in mammals to promote vascular growth
Suggested Uses:Dental reconstruction Bone and soft tissue scaffolds Cartilage and tendon repair Treatment of bed sores Treatment of diabetic ulcers
Detailed Description:This invention encompasses a family of materials that react in a controllable manner with mammalian tissue to promote blood vessel growth when implanted in a mammal. Subcutaneous implantation studies in rodents indicate that a 300 percent increase in vascular growth is possible at six weeks. This material is biocompatible and bonds readily to living issue. Porous three dimensional tissue scaffolds have also been fabricated from the material. File Number: 10MST003
Patent Status: US and PCT Applications Filed

Advantages

Controllable reaction rates Small quantity required Inexpensive Material can be made into various shapes

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