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(54) **TISSUE ENGINEERED BIOMIMETIC HAIR FOLLICLE GRAFT**

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(57) **ABSTRACT**

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The present invention relates to an improved scaffold which is constructed to mimic the architecture of the native hair follicle. The present invention also relates to the use of specific compositions and methods of manufacture to produce scaffolds that combine biocompatibility with the desired rates of bioabsorption. In another embodiment, the present invention relates to a process for manufacturing a biomimetic hair follicle graft and a method for seeding the graft with cells and implanting the graft into the skin where the growth of a new hair shaft is desired. A further embodiment of the present invention relates to a method for hair multiplication in which cells are multiplied in culture and aliquoted into a multitude of bioabsorbable scaffolds in combination with cultured keratinocytes or other allogenic cells.

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