

# Crystal gel scaffold comprising synthetic polymers, polysaccharides and proteins, and tissue regeneration method using the scaffold

Published date: June 1, 2017

## Technology description

BRIEF SUMMARY OF THE INVENTION that present invention immobilized scaffolds of polysaccharides and proteins and methods of tissue regeneration using the scaffolds, In particular, the high molecular weight polymers mixed with hydroxyethyl methacrylate (HEMA), alginate and gelatin can be used as scaffolds for histological engineering because of their excellent mechanical strength, toughness and elasticity, as well as excellent cell adhesion, reproduction and adaptability. In addition, when the crystal glue scaffold is used as a patch for transplanted lung cells, emphysema, myocardial infarction, and degenerative diseases can be treated, the crystal glue scaffold of the present invention can be used as a cardiac patch or mesenchymal stem cells for transplanted heart cells.

## Application area

These scaffolds were used as patches for transplanted lung cells to treat emphysema.

## Institution

[Yeungnam University](#)

## 联系我们



叶先生

电话 : 021-65679356

手机 : 13414935137

邮箱 : yeyingsheng@zf-ym.com