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New approaches to increase intestinal length: methods used for intestinal regeneration and bioengineering

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### Neural tissue engineering: strategies for repair and regeneration

[jleachlab.org](#) 中的 [PDF]

CE Schmidt, JB Leach - ... review of biomedical engineering, 2003 - annualreviews.org

... Recent approaches, using optimized combinations of detergents, show good cellular clearance ...

One recent approach uses an optimized detergent treatment (including sulfobetaine-10 ...

biodegradable tissue that exhibits low immunogenicity and stimulates new vascularization (77 ...

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G Totonelli, P Maghsoudlou, M Garriboli, J Riegler... - Biomaterials, 2012 - Elsevier

... Thus, the development of new treatment strategies for IF is an area requiring further investigation. ...

Major limitations of this approach are the high number of cells necessary for engineering functional ...

and the lack of a matrix that will mimic the original intestine, increase cell growth ...

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### Tissue engineering and its potential impact on surgery

S Lalan, I Pomerantseva, JP Vacanti - World Journal of Surgery, 2001 - Springer

... ad- aptation of the small bowel as well as lead to novel approaches to treatment ... A tissue

engineering approach has been successfully used in creating a viable pulmonary artery autograft ...

Thus, a new co- polymer of PGA and polyhydroxyalkanoate (PHA) was success- fully used ...

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### Naturally occurring scaffolds for soft tissue repair and regeneration

J Hodde - Tissue engineering, 2002 - online.liebertpub.com

... ie, the intestine) where blood does not clot, patency rates could be increased over those ...

cell-ECM interaction will be important to understanding the precise role that new blood vessel ...

plantation of acellular dermis without added cells has become the favored approach for many ...



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Thus, the development of new treatment strategies for IF is an area requiring further ...

Major limitations of this approach are the high number of cells necessary for ... This in vitro tissue-engineered intestine could be used as a low-cost and ..... this method may represent an innovative platform for small bowel bioengineering ...

### Intestinal Tissue Engineering: Current Concepts and Future ...

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