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Name of Journal: *World Journal of Hepatology*

Manuscript NO: 34154

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### Basic Study

Novel synthetic adhesive as an effective alternative to Fibrin based adhesives

Pramod Kadaba Srinivasan, Vera Sperber, Mamdouh Afify, Hirokazu Tanaka, Kenji Fukushima, Babette Kögel, Felix Gremse, René Tolba

### Abstract

**Aim:** We compared a novel, fully synthetic, polyurethane based glue (MAR-1) to fibrin sealant in a partial liver resection rat model.

**Methods:** After 50% resection of the lateral left liver lobe in male Wistar rats

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## Nano/Biomimetic Tissue Adhesives Development: From Research to ...

[www.tandfonline.com/doi/full/10.1080/15583724.2015.1114493?...](http://www.tandfonline.com/doi/full/10.1080/15583724.2015.1114493?...) - 翻译此页

2016年1月8日 - [CrossRef], [Web of Science ®] Tissue adhesives are the alternatives to these ... and semi-synthetic adhesives, and nano/biomimetic adhesives. .... Fibrin based, collagen based, and gelatin based adhesives are the ... Committee, C.M.-c.C.W. "A novel collagen-based composite offers effective hemostasis for ...

## Adhesive biomaterials for tissue reconstruction - Wiley Online Library

[onlinelibrary.wiley.com/doi/10.1002/jctb.1771/pdf](http://onlinelibrary.wiley.com/doi/10.1002/jctb.1771/pdf) ▼ 翻译此页

2007年9月21日 - including fibrin glues, synthetic polymer glues like .... fibrin glue after approximating the tissue edges with a single 5-0 nylon suture ... safe and effective watertight closure when used as an ... promising alternative to welding is bonding tissue .... A novel chitosan-based adhesive film was coupled with a diode.



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### Glues and adhesive in tissue approximation

[https://www.laparoscopyhospital.com/glues\\_and\\_adhesive\\_in\\_tissue\\_approx...](https://www.laparoscopyhospital.com/glues_and_adhesive_in_tissue_approx...) ▼ 翻译此页

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### An overview in surgical adhesives (PDF Download Available)

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In book: Biomedical Polyurethane-Based Materials, Publisher: Nova Publishers, ... have thought of an alternative way: the use of medical tissue adhesives. ... The most used surgical glues nowadays are the fibrin based adhesives and ..... and studied synthetic surgical adhesive in the medical field (Kopecek e Ulbrich, 1983).

### Elastic sealants for surgical applications - NCBI - NIH

[https://www.ncbi.nlm.nih.gov/.../NCBI/Literature/PubMedCentral\(PMC\)](https://www.ncbi.nlm.nih.gov/.../NCBI/Literature/PubMedCentral(PMC)) - 翻译此页

作者 : N Annabi - 2015 - 被引用次数 : 14 - 相关文章

2015年6月12日 - The application of surgical adhesives is a convenient alternative ... Synthetic-based elastic tissue adhesives have attracted significant .... For example, in a recent study, a polyvinyl alcohol (PVA)-based tissue adhesive for wound closure .... of novel rapidly polymerizable fibrin-based sealants with improved ...



Novel synthetic adhesive as an effective alternative to Fibrin based adhesives

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[Tissue adhesives in ocular surgery: Expert Review of ...](#)

[www.tandfonline.com/doi/full/10.1586/eop.11.64](http://www.tandfonline.com/doi/full/10.1586/eop.11.64)

9 Jan 2014 ... Cyanoacrylate-based **synthetic** tissue **adhesives** have been conventionally used ... Evaluate **novel** tissue **adhesives** under investigation for use in ocular surgeries .... Sharma et al. compared the **effectiveness** of **fibrin glue** and ... to be a safe and **effective alternative** to sutures without induced astigmatism .

[\[PDF\] Adhesive Biomaterials for Tissue Repair and Reconstruction](#)

[www.crcnetbase.com/doi/pdfplus/10.1201/b13758-18](http://www.crcnetbase.com/doi/pdfplus/10.1201/b13758-18)

existing commercial **adhesives** for wound closure, including **fibrin-based adhesives**, ... cal specifications, **novel adhesive** polymers must meet biocompatibility specifications. .... For these reasons, there is clinical interest in developing both **alternative** bio- logical sealants and **synthetic** sealants for tissue reconstruction.

[Current State and Use of Biological Adhesives in Orthopedic Surgery](#)