

# Biologic Fish Skin Bandage for Healing Burns and Other Wounds

Tech ID: 33826 / UC Case 2018-812-0

## ABSTRACT

Researchers at the University of California, Davis have developed a biologic dressing derived from fish skin to enhance wound healing.

## FULL DESCRIPTION

This technology involves a method for preparing a biological bandage using fish skin, specifically designed for healing wounds such as burns. It harnesses the natural healing properties of fish skin, combined with a meticulous sterilization and preparation process, to create a biocompatible, efficient wound dressing suitable for both humans and animals.

## APPLICATIONS

- ▶ Hospital and clinical wound care for humans
- ▶ Veterinary medicine for domestic and wildlife animals
- ▶ Emergency medical services for first aid and trauma care
- ▶ Long-term care facilities for pressure wounds and chronic injuries management

## FEATURES/BENEFITS

- ▶ Biocompatible and promotes cellular proliferation and tissue remodeling
- ▶ Edible property makes it safe for use in veterinary applications
- ▶ Reduces the risk of zoonotic diseases compared to conventional animal-based xenografts
- ▶ Lower risk of immune reaction and rejection
- ▶ Cost-effective compared to other biological and synthetic dressings
- ▶ Protection of wounds from mechanical trauma and contamination
- ▶ Overcomes the limitations of synthetic bandages and conventional xenografts
- ▶ Addresses the scarcity and high cost of natural and synthetic collagen matrix substitutes
- ▶ Provides a solution for treating severe tissue injuries that do not heal with standard care

## PATENT STATUS

Country	Type	Number	Dated	Case
United States Of America	Issued Patent	<a href="#">11,612,675</a>	03/28/2023	2018-812

## CONTACT

Victor Haroldsen  
[haroldsen@ucdavis.edu](mailto:haroldsen@ucdavis.edu)  
 tel: 530-752-7717.



## INVENTORS

- ▶ Peyton, Jamie

## OTHER INFORMATION

### KEYWORDS

burns, wound healing,  
 fish skin, tilapia,  
 bandages, dressings

### CATEGORIZED AS

- ▶ **Medical**
  - ▶ Other
  - ▶ Rehabilitation
  - ▶ Therapeutics
- ▶ **Veterinary**
  - ▶ Companion Animal
  - ▶ Large Animal
  - ▶ Other
  - ▶ Therapeutics

### RELATED CASES

2018-812-0

**University of California, Davis**

**Technology Transfer Office**

1 Shields Avenue, Mrak Hall 4th Floor,

Davis, CA 95616

Tel:

530.754.8649

[techtransfer@ucdavis.edu](mailto:techtransfer@ucdavis.edu)

<https://research.ucdavis.edu/technology-transfer/>

Fax:

530.754.7620

© 2024, The Regents of the University of California

[Terms of use](#)

[Privacy Notice](#)