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Biologic Fish Skin Bandage for Healing Burns and Other Wounds

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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

Patent Pending

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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

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