



FLORIDA STATE UNIVERSITY

OFFICE OF RESEARCH

High-performance biocompatible polymer

Polyelectrolyte complexes are made by mixing solutions of charged polymers (polyelectrolytes). In this technology, two common polyelectrolytes are used: poly(diallyldimethyl ammonium) (PDADMA) and poly(styrene sulfonate) (PSS). The material is flexible when moist, has a modulus in the Megapascal range (is tough) and easily provides films without the need for additives in the final product.

Properties:

- Biocompatible
- Can be tuned for low or high cell adhesion
- Timed drug release
- Oxygen and Water Permeable
- Nanosilver-compatible

Manufacturing:

- Easy scale-up
- Components are FDA approved

Applications:

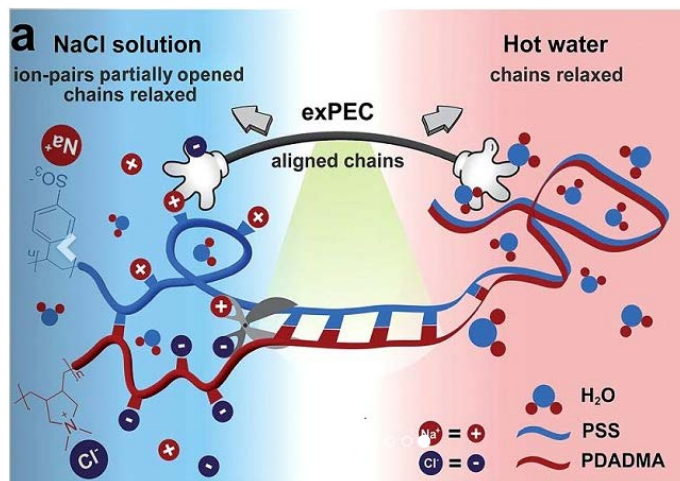
- Wound care
- Burn care
- Tactical Combat Casualty Care

Technology # 15-230

Inventors

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U.S. Patents: U.S. 2015/0140055
U.S. 9,005,662 U.S. 8,372,891
U.S. 8,314,158 U.S. 8,222,306
U.S. 8,206,822 U.S. 8,206,816
U.S. 8,114,918



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