

## Accepted Manuscript

Title: Bacterial cellulose membrane produced by *Acetobacter* sp. A10 for burn wound dressing applications

Author: Moon Hwa Kwak Ji Eun Kim Jun Go Eun Kyoung  
Koh Sung Hwa Song Hong Joo Son Hye Sung Kim Young  
Hyun Yun Young Jin Jung Dae Youn Hwang



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**Highlight**

1. BCM produced by *Acetobacter sp.* showed an appropriate range of the physic-chemical properties to maintain a proper fluid balance on the burn wound of skin.
2. BCM treatment for 15 days was successfully accelerated the process of wound healing through the stimulation of epithelization, angiogenesis and connective tissue formation.
3. BCM may not induce any significant toxicity toward the liver and kidney of SD rats.
4. BCM may be considered as one of effective candidate materials for accelerating the healing process of burned skin.

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