

**Intel International Science & Engineering Fair 2014
Los Angeles, USA**

ABSTRACT

Project No.: Intel2014_016

Title: Biodegradable Dressing: Breathable, non-Allergic and Edible

The plastic now causes a lot of pollution to the environment, human depend too much on unabated plastics from non-renewable energy oil manufacturing, which is very difficult to decompose, resulting in the increase of solid waste and environmental damage.

Band aid is used to protect the wound and various different types of band aid are available in the market. It is caused by plastic and difficult to break down. Also, it causes serious pollution to the environment.

Besides, many people are allergic to such material because of the breathable.

It may worsen the injury. At present, 73% of users have skin rash or dermatitis due to the long time contact of their skin with the emulsion. Therefore, causing allergic will contact skin rash or dermatitis.

In order to reduce the user allergies, improve the breathable of band aid and reduce the amount of solid waste, the research on the following conditions:

1. Harmonies : irritants
2. Environmental protection: the use of renewable resources and biodegradable
3. Breathable: the skin to carry out gas exchange