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## Scientists From University of Granada Make Advancements In Human Skin Generation

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April 20, 2010 10:26 a.m. EST

Topics: **science and technology, research, medical research, health, World**  
Ayinde O. Chase - AHN News Editor

Granada, Spain (AHN) - Scientists from the University of Granada, Spain, have created artificial human skin via a process based on tissular engineering. Researchers say the artificial skin was grafted onto mice showed positive results for development, maturation and functionality.

The results give new promise for the clinical use of human skin and for use in laboratory tests which would aid in avoiding the use of laboratory animals.

This research team was led by José María Jiménez Rodríguez, from the Tissular Engineering Research group at the University of Granada.

In the study original skin cell samples were taken from small biopsies belonging to patients following plastic surgery procedures. Researchers selected the cells that they wanted to use in the skin generation and then analyzed the evolution of the in-vitro culture and then performed a quality control of the tissues grafted onto nude mice.

According to study findings the skin created in the laboratory showed adequate biocompatibility rates with the recipient and no rejection or infection was registered.

Previously artificial skin substitutes were elaborated with other biomaterials as collagen, fibrin, polyglycolic acid, chitosan, and other compounds however this study used a dermis made of fibrin-agarose biomaterial. Thereby giving added resistance, firmness and elasticity to the skin allowing a more stable skin with similar functionality to normal human skin."

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