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#### Basic Study

Bioengineered humanized livers as better three-dimensional drug testing model system

Sandeep Kumar Vishwakarma, Avinash Bardia, Chandrakala Lakkireddy, Raju Nagarapu, Md Aejaaz Habeeb, Aleem Ahmed Khan

#### Abstract

**AIM:** To develop appropriate humanized three-dimensional ex-vivo model system for drug testing.

**METHODS:** Bioengineering humanized livers were developed in this study using human hepatic stem cells repopulation within the acellularized liver scaffolds which mimics with the natural organ anatomy and physiology. Six CYP probes were used to enable efficient identification of drug metabolism in bioengineered humanized livers.

The drug metabolism study in bioengineered livers enabled to evaluate natural drug

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