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the development and application of **bioartificial** support. The hope has been ... **designed** to mimic **architectural** features of the normal **liver**. Large multicentre ... cells were needed to support **liver function** (3). ... **liver**. In addition to **detoxification**, a certain .... **livers** (16). These **experiments** have shown that cultured hepatocytes.

**Name of Journal:** *World Journal of Hepatology*

**Manuscript NO:** 39857

**Manuscript Type:** ORIGINAL ARTICLE

*Basic Study*

**Experimental Bio-Artificial Liver: importance of the architectural design on ammonia detoxification performance**

**María Dolores Pizarro, María Eugenia Mamprin, Lucas Damián Daurelio, Joaquín Valentín Rodríguez, María Gabriela Mediavilla**

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The research and development of extracorporeal **bioartificial liver** is gaining pace ... types of cell used in current reactor **designs**, the state-of-the-art culturing and ... with the **important** ones being accumulation of **ammonia**, ... understanding that **detoxification** alone is not sufficient to ..... bioreactor to improve the **performance**.

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In this article, we will review the history of **artificial liver** support systems and ... based on artificial kidney dialysis principles and relied mainly on blood **detoxification**; ... Kiley et al.5 demonstrated that **ammonia** could be effectively removed in Eck ..... resemble the **architecture** of a liver, such as the **design** by Gerlach et al.,81 in ...

### Bioartificial liver support devices: historical ... - Wiley Online Library

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Fulminant hepatic failure (FHF) is an **important** cause of death worldwide. ... With a view to this, **bioartificial liver** support devices have been developed which replace the synthetic metabolic thesis