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S Greenhough, CN Medine, DC Hay - Toxicology, 2010 - Elsevier

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JW Allen, T Hassanein, SN Bhatia - Hepatology, 2001 - Wiley Online Library

... Assessment of artificial liver support technology. ... Hybrid bioartificial liver in hepatic failure:
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Name of Journal: *World Journal of Gastroenterology*

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Clinical translation of bioartificial liver support systems with human pluripotent stem cell-derived hepatic cells

Sakiyama R *et al.* Bioartificial liver with human iPS

Ryoichi Sakiyama, Brandon J Blau, Toshio Miki

Abstract

There is currently a pressing need for alternative therapies to liver transplantation. The number of patients waiting for a liver transplant is substantially higher than the number of transplantable donor livers, resulting in a long waiting time and a high waiting list mortality. An extracorporeal liver support system is one possible approach to overcome this problem. However, the ideal cell source for developing

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Keywords: Induced pluripotent stem cells, liver diseases, hepatocyte ... Human cell systems, including human hepatocyte cultures, immortalized cell lines and ... In particular, iPSC-derived hepatocytes are an appropriate target for studying the ... but the clinical implementation of a bio-artificial liver with a human proliferative ...

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2016年4月22日 - Therefore, alternative sources of liver support have been proposed and studied.