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**Mechanisms of autophagy activation in endothelial cell and their targeting during normothermic machine liver perfusion**

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### Abstract

Ischaemia-reperfusion injury (IRI) is the leading cause of injury seen in the liver following transplantation. IRI also causes injury following liver surgery and haemodynamic shock. The first cells within the liver to be injured by IRI are the liver sinusoidal endothelial cells (LSEC). Recent evidence suggests that LSEC co-ordinate

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normothermic, and subnormothermic machine perfusion may be useful to ... injury to ischemically challenged sinusoidal endothelial cells. ... which leads to activation of Kupffer and dendritic cells. ... marginal livers in some variation and extol upon their equivocal .... While the mechanisms of this ATP loading remain obscure,.

[\[PDF\] Hepatic ischemia and reperfusion injury: Effects on the liver ...](#)

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action between hepatocytes, liver sinusoidal endothelial cells, (LSEC), Kupffer cells (KC), ..... the normothermic machine perfusion may derive from the con-.

[Subnormothermic Perfusion in the Isolated Rat Liver Preserves the ...](#)

[https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5075307/](#)

9 Oct 2016 ... In this study we investigated the early cellular mechanisms induced in isolated rat livers after 15 min perfusion at temperatures ranging from normothermia (37°C) to ... and ubiquitin proteasome system (UPS) were both activated. ... that many livers which would be discarded due to their low quality could be ...

[Autophagy and Liver Ischemia-Reperfusion Injury - NCBI - NIH](#)

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15 Mar 2015 ... Liver ischemia-reperfusion (I-R) injury occurs during liver resection, liver ...



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In group A (NMP), donor livers were harvested without warm ischemia time and ... to the NMP system to reduce the livers' size under the normothermic condition. In ... maintained integrities in the hepatic sinusoid spaces and endothelial cells.

[Excorporeal Normothermic Machine Perfusion Resuscitates Pig ...](#)

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3682784/>

24 Oct 2011 ... The only curative therapy for end-stage liver failure remains transplantation. ... During normothermic machine perfusion, the continuous vascular flow ... the endothelial lining and alterations in the endothelial cell cytoskeleton, ...

[Normothermic Machine Perfusion of Deceased Donor Liver Grafts Is ...](#)

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5068202/>

5 Aug 2016 ... Normothermic machine preservation grafts were perfused for 525 minutes ... Graft reperfusion is a critical point during liver transplantation (LT), because it ... also comparable in the 2 groups (BMI, days of intensive therapy unit stay, ... oxygen reuptake from cells, release of free radicals, endothelial damage, ...

[Normothermic machine perfusion of the kidney: better conditioning ...](#)

[onlinelibrary.wiley.com/doi/10.1111/tri.12319/full](https://onlinelibrary.wiley.com/doi/10.1111/tri.12319/full)

8 May 2014 ... Normothermic perfusion restores energy levels in the kidney allowing ...

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[Umbilical cord-derived mesenchymal stem cells alleviate liver ...](#)

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4948270/>

14 Jul 2016 ... The effects of UC-MSCs transfusion on liver fibrosis were then evaluated by ...

Keywords: Liver fibrosis, Mesenchymal stem cells, Kupffer cells, ... Among MSCs, the umbilical cord-derived MSCs (UC-MSCs) possess an excellent ... MSCs have a high differentiation potential both in vitro and in vivo[17,33].

[In Vitro and In Vivo Hepatic Differentiation of Adult Somatic Stem ...](#)

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4541019/>

5 Aug 2015 ... The hepatic differentiation of stem cells would offer an ideal and promising ... MSCs derived from the main component of the umbilical cord extracellular ... the survival of rats with acute hepatic necrosis [80] and liver fibrosis [81]. ... [84] demonstrated that the therapeutic effects of human UCMSCs were ...

[Use of mesenchymal stem cells to treat liver fibrosis: Current ...](#)

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4299328/>

21 Jan 2015 ... Keywords: Liver fibrosis, Cirrhosis, Mesenchymal stem cells, Cell ... Cell-based therapy has been proposed as a less invasive potential ... Moreover, the in vivo hepatic differentiation of MSCs has been ... Li et al[126] demonstrated that transplantation of exosomes derived from human umbilical cord MSCs ...

[\[PDF\] Review Human Umbilical Cord Mesenchymal Stem Cells: A New ...](#)

[www.ingentaconnect.com/content/cog/ct/2015/00000024/.../art00004?...](http://www.ingentaconnect.com/content/cog/ct/2015/00000024/.../art00004?...)

The human umbilical cord is a promising source of mesenchymal stem cells ... As such, derived stem cells from dumped fetal tissue ... HUCMSCs reveal the same potential regardless of the portion of the ... express hepatic markers and differentiate into hepatocyte- ... to rescue liver fibrosis (67) and differentiate into hepa-

[Therapeutic Effects of Hepatocyte Growth Factor-Overexpressing ...](#)