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It was in this spirit that the idea of machine perfusion was conceived, when in 1963 using ... Metabolic preservation of hypothermic machine perfused livers is profound ... the

Name of journal: World Journal of Gastroenterology

ESPS Manuscript NO: 17087

Columns: ORIGINAL ARTICLE

*Basic Study*

**Influence of perfusate on liver viability during hypothermic machine perfusion**

Jun-Jun Jia, Jing Zhang, Jian-Hui Li, Xu-Dong Chen, Li Jiang, Yan-Fei Zhou,  
Ning He, Hai-Yang Xie, Lin Zhou, Shu-Sen Zheng

### Abstract

**AIM:** To optimize the perfusates used for hypothermic machine perfusion (HMP).

**METHODS:** Sprague-Dawley rats were assigned randomly to three groups (*n*

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methods for liver preservation, such as hypothermic machine perfusion and normothermic ... tected against the deleterious effects of the ischemic period. ... In contrast to SCS, MP organs can be monitored over time; viability markers can be identified. ... without oxygen for 4 hr and perfused through the portal vein and hepatic ...

## "Resuscitation" of marginal liver allografts for transplantation ...

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Metabolic preservation of hypothermic machine perfused livers is profound ... injury and impact cell viability especially in energy depleted hepatocytes [67].

## Challenges in machine perfusion preservation for liver grafts ...