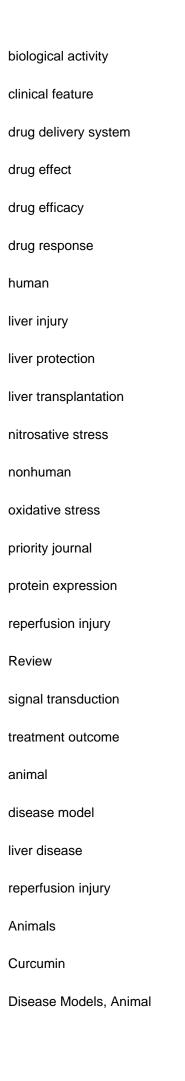
Protective effects of curcumin against ischemia-reperfusion injury in the liver
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Liver ischemia/reperfusion (I/R) injury is a major complication of hepatic surgery and transplantation.
It is one of the leading causes of morbidity and mortality because of post-surgery hepatic
dysfunction. Several studies have suggested different mechanisms are involved in the pathogenesis
of I/R injury in the liver that includes oxidative stress, inflammation, mitochondria dysfunction, liver
Kupffer cells (KCs) activation, vascular cell adhesion molecule overexpression, and facilitation of
polymorphonuclear neutrophil injury. Curcumin is a natural product extracted from Curcuma longa
that is known to suppress these pathways and as a result reduces liver ischemia-reperfusion injury.
This paper gives an overview of the protective effects of curcumin against I/R injury in the liver and
discusses the studies that have linked biological functions of curcumin with liver I/R injury
improvement. © 2018 Elsevier Ltd
Curcumin
Ischemia-reperfusion injury
Liver
Transplantation
curcumin
heat shock protein 70
immunoglobulin enhancer binding protein
curcumin
protective agent



L	.iver	Disea
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Humans

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Liver Transplantation

Protective Agents

Reperfusion Injury