

Table 1. Expression and actions of the CRF system in human and animal liver tissue. CRF: Corticotropin Releasing Factor, HCC: Hepato-Cellular Carcinoma, Ucn: Urocortin, VEGF: Vascular Endothelial Growth Factor

Study	Experimental Subject	Method	CRF Family Member	Observation-Conclusion
Simopoulos et al 2009 ⁷⁷	Human livers	RT-PCR, immunohistochemistry	Ucn 1, CRF ₁ and CRF ₂	Ucn 1, CRF ₁ and CRF ₂ on hepatocytes, blood vessels and bile ducts in the portal triad.
Charalampopoulos et al 2006 ⁷⁸	Rats	RT-PCR	Ucn 1, CRF ₁ and CRF ₂	Kupffer cells occasionally express Ucn 1, CRF ₁ and CRF ₂
Paschos et al 2010 ⁷⁶	Rats	RT-PCR, immunohistochemistry, ELISA	CRF ₁ and CRF ₂	Clolestasis-induced apoptosis is promoted by CRF ₁ , while an antiapoptotic effect was observed for CRF ₂
Wang et al 2008 ¹⁰¹	Nude mice	Three-dimensional culture assays, RT-PCR	Ucn 1, CRF ₁ and CRF ₂	Ucn 1 decreased VEGF levels through CRF ₂ in the hepatocellular carcinoma
Yokohoma et al 2001 ⁸⁶	Experimental acute liver injury in rats	Serum markers, liver histology	Ucn 1, CRF ₁	Ucn 1 exacerbated acute liver injury via CRF ₂ in sympathetic nervous system
Nakade 2002 ¹⁰²	Experimental acute liver injury in rats	Serum markers, liver histology		CRF antagonists reduced liver injury