

(Editorial)(3)

Role of Angiogenic Factors during the Hepatocarcinogenesis

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HCC

(dysplastic nodules) (hepatocellular carcinoma, HCC) .¹ unpaired artery, smooth muscle actin 가

HCC CD34 가 HCC

HCC .^{3,4}

HCC unpaired artery가 . epidermal growth factor, transforming growth factor , transforming growth factor , tumor necrosis factor , angiogenin, platelet-derived endothelial cell growth factor, basic fibroblast growth factor (bFGF), vascular endothelial growth factor (VEGF) 가 .² VEGF bFGF가 HCC . VEGF

HCC (portal tract) , bFGF

Key Words: Angiogenesis, bFGF, VEGF, Hepatocarcinogenesis

Table 1. Neoangiogenesis and VEGF Expression in Multistep Hepatocarcinogenesis

	Cirrhosis	DN, low grade	DN, low grade	HCC
Neoangiogenesis				
Unpaired artery	-	±	++	+++
Sinusoidal capillarization	±	+	++	+++
VEGF expression	±	+	++	+++

Abbreviations: DN, dysplastic nodule; HCC, hepatocellular carcinoma

HCC VEGF bFGF mRNA
, VEGF 가 HCC 가 .¹⁴ VEGF
, VEGF bFGF ,
VEGF .
bFGF 가 HCC .
가 , HCC HCC 가 .
. ⁶⁻⁸ VEGF HCC .
bFGF HCC .
. VEGF , HCC HCC .
, HCC HCC 가 .¹⁵
HCC .
가 , , 가 ,
. ⁹ bFGF VEGF bFGF .
가 ,
. ¹⁰ VEGF : . bFGF, VEGF, / /
bFGF HCC .
, FGF
Fn14가 HCC 가
. ¹¹
가 .
VEGF bFGF VEGF
가 .
HCC 가 HCC 가
. ¹² bFGF , ,
HCC 가 HCC
가 . ¹³
, HCC bFGF
VEGF , bFGF가 HCC

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