Significance of portal venous VEGF during liver regeneration after hepatectomy.

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Table 1. Oligonucleotide sequences of primer pairs used in RT-PCR

<table>
<thead>
<tr>
<th>Gene</th>
<th>Forward primer</th>
<th>Reverse primer</th>
<th>PCR fragment size (bp)</th>
</tr>
</thead>
<tbody>
<tr>
<td>VEGF</td>
<td>GAACTTTCTGCTCTCTTTGGG</td>
<td>CTGCATTCAACATCTGCTATG</td>
<td>375</td>
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<tr>
<td>HIF-1a</td>
<td>GATCAGCCAGCAAGTCTCTTC</td>
<td>GGAGCTGTGAATGTGCTGTG</td>
<td>1247</td>
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<tr>
<td>HGF</td>
<td>CCCAAATGTGACGTGTCAGAG</td>
<td>TGTCTTGTTTTGGCACAGGA</td>
<td>335</td>
</tr>
<tr>
<td>HGFA</td>
<td>GGCAAGAGGGCAACAGGAAGAG</td>
<td>CAGCAACCCAGGGGACCAGT</td>
<td>508</td>
</tr>
</tbody>
</table>

* Each gene was coamplified with GAPDH
FIGURE LEGENDS

**Figure. 1.** The courses of liver regeneration during seven days after 70% partial hepatectomy. Values represent means±SD.
Figure 2. The concentration of VEGF in plasma after 70% partial hepatectomy. Closed squares and opened circles represent portal venous blood and peripheral venous blood, respectively. *$P<0.05$ versus peripheral venous blood; **$P<0.01$ versus peripheral venous blood. Values represent means±SD.
Figure. 3. Changes in ratio of vascular endothelial growth factor (VEGF) mRNA expression after 70% partial hepatectomy in liver (A), spleen (B) and intestine(C). 0: Pre-hepatectomy. *P<0.05 versus 0 hours; **P<0.01 versus 0 hours; ***P<0.001 versus 0 hours. Values represent means±SD.
A. Liver

B. Spleen

C. Intestine

Ratio of VEGF mRNA expression

Times after partial hepatectomy (hours)

VEGF

Times after partial hepatectomy (hours)

387 bps
Figure. 4. Changes in ratio of hypoxia inducible factor-1α (HIF-1α) mRNA expression after partial 70% hepatectomy in liver (A), spleen (B) and intestine (C). 0: Pre-hepatectomy. *$P<0.05$ versus 0 hours; **$P<0.01$ versus 0 hours. Values represent means±SD.
Figure 5. Changes in ratio of hepatocyte growth factor (HGF) mRNA expression after 70% partial hepatectomy in liver (A), spleen (B) and intestine (C). 0: Pre-hepatectomy. *P<0.05 versus 0 hours; **P<0.01 versus 0 hours. Values represent means±SD.
Figure 6. Changes in ratio of hepatocyte growth factor activator (HGFA) mRNA expression after 70% partial hepatectomy in liver (A), spleen (B) and intestine (C). 0: Pre-hepatectomy. *$P<0.05$ versus 0 hours; **$P<0.01$ versus 0 hours. Values represent means±SD.