Title of abstract _REGENERATIVE RESPON	NSE OF HEPATO	OCELLULAR T	RANSPLANTS PLACED IN TH	E SPLEEM	
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REGENERATIVE RESPONSE OF HEPATOCELLULAR TRANSPLANTS PLACED IN THE SPLEEN.

The functionalism of hepatocytes inoculated into the spleen has already been assessed. This work was designed to check the ability of these cells to response to regenerative stimuli.

MATERIAL and METHODS. Syngeneic female Fisher rats were used as receptors and donnors (200 g). Hepatocytes were isolated by continous perfussion with collagenase (0.5%) and the survival rate (94 +/- 2%) was assessed by means of the Tripan Blue exclusion test. 22 million of hepatocytes suspended in 1 cc of EMEN's solution were inoculated into the spleen. 70% hepatectomy was performed 24 h after inoculation. Daily doses of CsA (20 mg/kg i.p.) were administered from the day before transplantation. Four groups of seven animals have been considered: (I) Control, (II) 70% Hepatectomy, (III) CsA, (IV) 70% Hepatectomy + CsA. Animals were sacrificied 48 h. after inoculation, and hepatocytes' DNA content was measured by means of a microcytoespectrophotometric method. Mean percentage of regenerating hepatocytes (MPRH) was then assessed.

RESULTS. Hepatic MPRH was: (I) 7.3%, (II) 33.95%, (III) 20.79%, (IV) 29.77%. Splenic MPRH was: (I) 5.4%, (II) 37.44%, (III) 22.64%, (IV) 26.63%. Liver hepatocytes of animals with heterotopic implants showed a regenerative response similar to control livers: both 70% hepatectomy and CsA (alone or combined) increased MPRH (p<0.05), though the former induced the strongest response (p<0.05 vs CsA). There were not significant differences between MPRH of hepatic and splenic hepatocytes.

CONCLUSIONS. Inoculation of hepatocytes into the spleen induces a low regenerative response both in hepatic and splenic hepatocytes. Hepatocytes inoculated into spleen respond to regenerative stimuli (70% hepatectomy and CsA) similarly to hepatic hepatocytes.