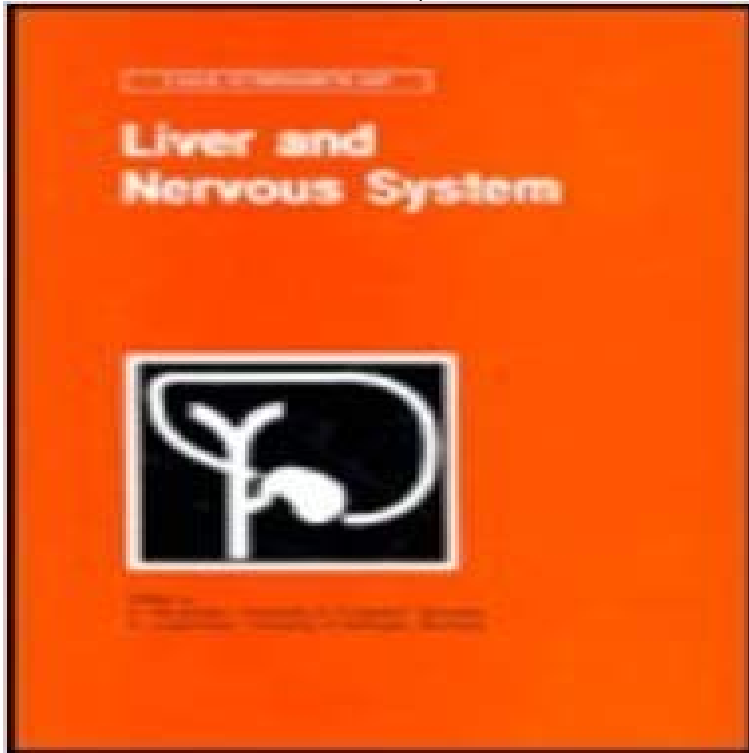


Liver and Nervous System



The liver occupies a strategic position in the circulation; it is the first organ to come into contact with absorbed nutrients. Therefore it functions as a major sensor of substrate, electrolyte and water input into the organism and reports this information via sensory, afferent nerves to the brain and thence via efferent nerves to other peripheral organs. The liver is also a major effector organ with a key role in maintaining whole body homeostasis. It processes energy fuels, transforms xenobiotics, synthesizes and degrades important compounds in the organism. This effector function is controlled by a complex network of humoral signal substances and effectory, efferent nerves. While the understanding of the role of hepatic afferent and efferent nerves for the function of the liver and the coordination of many other organs is still in its infancy, cerebral and autonomic nervous dysfunction accompanying various forms of liver disease have long been known. This book, the proceedings of the Falk Symposium No. 103 held in Freiburg, Germany, on 4-5th October 1997, summarizes current knowledge on the interaction between the liver and the nervous system under physiological and pathophysiological conditions.

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Role of the symphato-adrenal system in hemorrhagic **Autonomic Nervous System and the Liver - Mizuno - 2016** Currently, it is believed that IL-1 β functions as a chemical messenger from the immune system to the brain through the hepatic nervous system, although the precise role is still unclear (66). IL-1 β produces changes in liver cells, and has been suggested to signal through hepatic afferent fibers (61, 103). **The sympathetic nervous system in liver disease. - NCBI** Jul 26, 2016 Thus, the role of autonomic nervous system in the liver received little attention among hepatologists. However, increased obesity, dyslipidemia, **Loss of brain function - liver disease: MedlinePlus Medical** The sympathetic nerves affect all aspects of the hepatic circulation and the impact on the overall cardiovascular system is considerable. In addition, the liver may **The role of the sympathetic nervous system in promoting liver - NCBI** **Autonomic Nervous System and the Liver - Wiley Online Library** The role of the sympathetic nervous system in promoting liver cirrhosis induced by carbon tetrachloride, using the essential hypertensive animal (SHR). **How alcohol affects the nervous system and liver** Hepatol Res. 2016 Jun 7. doi: 10.1111/hepr.12760. [Epub ahead of print]. Autonomic Nervous System and the Liver. Mizuno K(1),(2), Ueno Y(1),(2). **Disorders Of The Nervous System Are Caused By Gallstones In The** Previous studies have suggested that the autonomic nervous system regulates liver regeneration and apoptosis. Moreover, the central nervous system **Hepatic Nerves - Hepatic Circulation - NCBI Bookshelf** The functional importance of sympathetic nerves to the liver and endocrine pancreas. 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