

慢性膵炎における膵炎関連蛋白の発現とアポトーシスの意義に関する実験的・臨床的研究

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1998 Fiscal Year Final Research Report Summary

Pancreatitis-associated protein and apoptocis in chronic pancreatitis

Research Project

Project/Area Number

09670523

Research Category

Grant-in-Aid for Scientific Research (C)

Allocation Type

Single-year Grants

Section

一般

Research Field

Gastroenterology

Research Institution

Kanazawa University

Principal Investigator

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Project Period (FY)

1997 - 1998

Keywords

chronic pancreatitis / pancreatitis-associated protein (PAP) / apoptosis

Research Abstract

In spontaneous chronic pancreatitis model (WBN/Kob rats), pancreatitis was first observed at 12 weeks, and progressed thereafter. By the analysis with RT-PCR, PAP mRNA started to be expressed at 8 weeks, peaked at 12 weeks, and then almost disappeared at 24 weeks. PAP was expressed in

the cytoplasm of pancreatic acinar cells by the analysis with in situ hybridization and immunohistochemistry. Expression of cytokines such as TNF-alpha and IL-6 was also studied. TNF-alpha and IL-6 peaked at 8 and 12 weeks, respectively. Drug therapy (camostat mesilate and Saiko-keishi-to) prevented the development of pancreatitis and suppressed the gene expression of PAP and cytokines. As for apoptosis, the TUNEL method revealed abundant apoptotic inflammatory cells in the stroma of the pancreata of WBN/Kob rats at 12 weeks. However, only a few apoptotic cells were detected in the acini. Anti-apoptotic effects of PAP were suggested in in vitro system using a rat pancreatic acinar AR42J cell line treated with ... More

Research Products (16 results)

	All	Other
	Publications (16 results)	
[Publications] Motoo Y.: "Sclerosing pancreatitis showing rapidly progressive changes with recurrent mass formation." International Journal of Pancreatology. 21(1). 85-90 (1997)		▼
[Publications] Motoo Y.: "Undifferentiated (anaplastic) carcinoma of the pancreas showing sarcomatous change and neoplastic cyst formation." International Journal of Pancreatology. 21(3). 243-248 (1997)		▼
[Publications] 元雄 良治: "自然発症慢性膵炎ラット (WBN/Kob) における柴胡桂枝湯の効果" 漢方医学. 21(9). 268-270 (1997)		▼
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