Estashment of peritoneal dissumination model and clinical application.

1998 Fiscal Year Final Research Report Summary

Estashment of peritoneal dissumination model and clinical application.

Research Project

Project/Area Number

09671291

Research Category

Grant-in-Aid for Scientific Research (C)

Allocation Type

Single-year Grants

Section

一般

Research Field

Digestive surgery

Research Institution

Kanazawa University

Principal Investigator

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Co-Investigator(Kenkyū-buntansha)

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Project Period (FY)

1997 – 1998

Keywords

MMP-7 / MKN-45-P / MMP-11 / c-met / AMFredepter / integrinalpha2alpha3

Research Abstract

To clarify the molecular mechanisms of the formation of peritoneal dissemination, a highly metastatic cell line, named MKN-45-P was established from gastric cancer cell line of MKN-45 by repeat intraperitoneal inoculation of free cancer cells in ascites. Intraperitoneal inoculation of 1O^7 cells of this cell line can reproduce peritoneal dissemination with bloody ascites. Screening of metastasis related genes, which are expressed from this cell line was performed using specific primers. Among more than 30 metastasis related genes, MKN-45-P expressed MMP-7, MMP-l1, urokinase type plasminogen activator, and its receptor, MTl-MMP, integrin alpha2, alpha3, betal, c-erbB-2 , c-met, mst-l, autoctine motility factor and its receptor. Among these gene products. MMP-7, integrin alpha2, alpha3, beta1, and c-erbB-2 are expressed in a large amount, as the metastatic potential increases. In the in vitro experiments, anti integrin antibodies against integrin alpha2, alpha3, beta1 inhibited the adhes ⋯▾ More

Research Products (12 results)

All | Other

All | Publications (12 results)

[Publications] Yonemura,Y.,Nojima,N.,et al.: "E-cadherin and c-met expression as a aprognostic factor in gastric cancer." Oncology Reports. 4. 743-748 (1997)

[Publications] Yonemura,Y.,Endou,Y.,et al.: "A possible fole of cytokines in the formation of peritoneal dissemination." Int J Oncol. 11. 349-358 (1997)

[Publications] Taniguchi,K.,Yonemura,Y.,et al.: "The relation between the growth patterns of gastric carcinoma and the expression of hepalocyte growth factor receptor (c-met),autocrine motility factor receptor,and urokinase-type plasminogen activator recepter." Cancer. 82. 362-365 (1998)

[Publications] Tsugawa,K.,Yonemura,Y.,et al.: "Amplification of the c-met,c-erbB-2 and epidermal growth factor receptor gene in human gastric cancers:Correlation to clinical features." Oncology. 55. 475-481 (1998)

[Publications] Yonemura,Y.,Ninomiya,I.,et al.: "Prognostic significance of c-erbB-2 gene expression in the poorly differrentiated type of adenocarcinoma of the stomach." Cancer petection and Preventionr. 22. 139-146 (1998)

[Publications] Yonemura,Y.: "Preitoneal Dissemination" Maeda shoten Co.,Ltd, 301 (1997)

[Publications] Yonemuraa, Y., Nojima, N., etal.: "E-cadherin and c-met expression as a aprognosic factor in gastric cancer" Oncology Reports. 4. 743-748 (1997)

[Publications] Yonemura, Y., Endou, Y., etal.: "A possible role of cytokines in the formation of peritoneal dissemination." Int J Oncol. 11. 349-358 (1997)

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