

## ヒト胃癌の腹膜播種のモデルの確立とその応用

著者	米村 豊
著者別表示	Yonemura Yutaka
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# 1998 Fiscal Year Final Research Report Summary

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## Estashment of peritoneal dissumination model and clinical application.

Research Project

### Project/Area Number

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09671291

### Research Category

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Grant-in-Aid for Scientific Research (C)

### Allocation Type

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Single-year Grants

### Section

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一般

### Research Field

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Digestive surgery

### Research Institution

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Kanazawa University

### Principal Investigator

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**YONEMURA Yutaka** University Hospital, Kanazawa University, Assistant Professor, 医学部・附属病院, 講師 (20167042)

### Co-Investigator(Kenkyū-buntansha)

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YODHIO Endou Kanazawa University, Deoartmebt of experimetal theraapentis Cancer Research cebt, 助手 (30211783)

### Project Period (FY)

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1997 - 1998

### Keywords

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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  $10^7$  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-1, urokinase type plasminogen activator, and its receptor, MTI-MMP, integrin alpha2, alpha3, beta1, c-erbB-2, c-met, mst-I, autocrine 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 prognostic factor in gastric cancer." *Oncology Reports*. 4. 743-748 (1997) ▼
- [Publications] Yonemura,Y.,Endou,Y.,et al.: "A possible role 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 hepatocyte growth factor receptor (c-met),autocrine motility factor receptor,and urokinase-type plasminogen activator receptor." *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 differentiated type of adenocarcinoma of the stomach." *Cancer Detection and Prevention*. 22. 139-146 (1998) ▼
- [Publications] Yonemura,Y.: "Peritoneal Dissemination" Maeda Shoten Co.,Ltd, 301 (1997) ▼
- [Publications] Yonemura, Y., Nojima, N., et al.: "E-cadherin and c-met expression as a prognostic factor in gastric cancer" *Oncology Reports*. 4. 743-748 (1997) ▼
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