Study of the anglogenesls as a tumor microenvironment fot the establlshment for new therapeutic strategy.

1997 Fiscal Year Final Research Report Summary

Study of the anglogenesls as a tumor microenvironment fot the establlshment for new therapeutic strategy.

Research Project

Project/Area Number

08671426

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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Project Period (FY)

1996 – 1997

Keywords

gastric cancer / angiogenesis / VEGF / PD-ECGF

Research Abstract

Angiogenesis is essential for tumor growth and metastasis and depends on the production of angiogenic factors by host and/or tumor cells. We studied the role of angiogenesis and angiogenic factors in human gastric cancer. Vascular endothelial growth factor (VEGF), one of angiogenic factors, was produced by tumor cells and was a responsible factor for the induction of angiogenesis in intestinal-type gastric cancer. And platelet

derived endothelial cell growth faftor (PD-ECGF), another angiogenic factor, was kexpressed in infiltrating cells and correlated with VEGF expression in tumor cells. Angiogenesis was greater in tumors with both high VEGF and PD-ECGF expression than those with high expression of either factor alone. These results suggest that multiple angiogenic factors expressed by both tumor cells and infiltrating cells may play a role in eegulation of angiogenesis in intestinal-type gastric cancer.

Research Products (4 results)

All | Other

All | Publications (4 results)

[Publications] Takahashi Y, et al: "Significance of vessel count,vascular endothelial growth factor,and its receptor (KDR) in intestinal-type gastric cancer." Clinical Cancer Research. 2. 1679-1684 (1996)

[Publications] Takahashi Y, et al: "Significance of platelet-derived endothelial cell growth factor in the angiogenesis of human gastric cancer." Clinical Cancer Research. 4. 429-434 (1998)

[Publications] Takahashi Y,Cleary KR,Mai M,Kitadai Y,Bucana CD and Ellis LM: "Significance of vessel count, vascular endothelial growth factor, and its receptor (KDR) in intestinal-type gastric cancer." Clinical Cancer Research. 2. 1679-1684 (1996)

[Publications] Takahashi Y,Bucana CD,Akagi Y,Liu W,Cleary KR,Mai M,and Ellis LM: "Significance of platelet-derived endothelial cell growth factor in the angiogenesis of human gastric cancer." Clinical Cancer Research. 4. 429-434 (1998)

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