

Analysis of cell death inducing gene in human malignant gliomas

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1998 Fiscal Year Final Research Report Summary

Analysis of cell death inducing gene in human malignant gliomas

Research Project

Project/Area Number

09470292

Research Category

Grant-in-Aid for Scientific Research (B)

Allocation Type

Single-year Grants

Section

一般

Research Field

Cerebral neurosurgery

Research Institution

Kanazawa University

Principal Investigator

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Project Period (FY)

1997 - 1998

Keywords

glioma / apoptosis, / Caspase-3

Research Abstract

Cysteine proteases of caspase family (interleukin-1 beta -converting enzyme) have been implicated as components of cell death pathway and have been reported to involved in Fas, chemotherapeutic agents, and radiation-induced apoptosis. In this study, I assessed the expression of Caspase-1, Caspase-2 and Caspase-3 in 11 cases of primary astrocytic tumors (five anaplastic astrocytomas, and six glioblastomas) by reverse transcription (RT)-PCR, Western

blot analysis, immunohistochemistry, and in situ caspase-3 activity assay. The frequency of Caspase-1, Caspase-2 and Caspase-3 overexpression appears to correlate with the malignancy grade of astrocytic brain tumors. Furthermore, Caspase-2 and Caspase-3 overexpression and Caspase-3 activation may play an important role in the pathogenesis of necrosis, which is one of the histological hallmarks of glioblastoma.

Research Products (4 results)

All Other

All Publications (4 results)

[Publications] O.Tachibana,et al: "Overexpression of ICE, CPP32 and ICH1 during the progression of human astrocytomas." J Neuro Oncol. 35. S43 (1997) ▼

[Publications] Yamashita J,et al.: "Induction of various blood-brain barrier properties in non-neural endothelial cells by close apposition to co-cultured astrocytes." J Neuro-Oncol. 35. S49 (1997) ▼

[Publications] O.Tachibana, M.Arai, J.Yamashita: "Overexpression of ICE, CPP32 and ICH1 during the progression of human astrocytomas." J Neuro Oncol. 35 : S43. S43 (1997) ▼

[Publications] Yamashita J, Hayashi H, Yamamoto Y: "Induction of various blood-brain barrier properties in non-neural endothelial cells by close apposition to co-cultured astrocytes." J Neuro-Oncol. 35. S49 (1997) ▼

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