

上咽頭癌の遺伝子治療法を目的とした基礎的研究

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2000 Fiscal Year Final Research Report Summary

Study for the aim of gene therapy of nasopharyngeal carcinoma

Research Project

Project/Area Number

10470353

Research Category

Grant-in-Aid for Scientific Research (B).

Allocation Type

Single-year Grants

Section

一般

Research Field

Otorhinolaryngology

Research Institution

Kanazawa University

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Keywords

NPC / EBV / BZLF1 / LMP1 / MMP9 / Metastasis / Invasiveness / Gene therapy

Research Abstract

Nasopharyngeal carcinoma (NPC), an epithelial tumor which is characterized by marked geographic and population differences in incidence, is found to be associated with Epstein-Barr virus (EBV) by serologic evidence, and the relationship was confirmed by the detection of EBVDNA and EB-encoded RNAs in NPC cells. While, NPC is highly metastatic carcinoma whose consistent associated with EBV has been established. Latent membrane protein 1 (LMP1), an EBV membrane protein expressed in latent infection is considered to be the EBV oncoprotein. Matrix metalloproteinase 9 (MMP9), one of the MMP families, degrades Type IVcollagen, a major 4 component of extracellular matrix and is believed to be crucial for cancer invasion and metastasis. Although MMP9 is reported to be expressed in a variety of cancers, no reports concerning NPC have been published. We have shown that LMP1 induces MMP9 in vitro cell line, which suggests the possibility of mechanism in which LMP1 of EBV contributes to the metastasis ... More

Research Products (25 results)

All Other
All Publications

[Publications] K.-R.Kim: "Transformation on Madin-Darby canine kidney (MDCK) epithelial cells by Epstein-Barr virus latent membrane protein 1 (LMP1) induces expression of Ets1 and invasive growth"Oncogene. 19. 1764-1771 (2000) ▼

[Publications] T.Horikawa: "Association of latent membrane protein 1 and matrix metalloproteinase 9 with metastasis in nasopharyngeal carcinoma"American Cancer Society. 89(4). 715-723 (2000) ▼

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[Publications] 古川仍: "新図解耳鼻咽喉科・頭頸部外科講座 第5巻頭頸部腫瘍"メジカル・ビュー社. 6 (2001) ▼

[Publications] M.Furukawa, S.Murono, H.Takeshita, T.Yoshizaki: "Detection of Epstein-Barr viral genes products, p53 and bcl-2 protein in non-endemic nasopharyngeal carcinoma. Gann Monograph on cancer Research 45"Epstein-Barr virus and human cancer, T.Osato, K.Takada, M.Tokunaga ed. 109-116 (1998) ▼

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[Publications] T.Yoshizaki, H.Sato, M.Furukawa, J.S.Pagano: "The expression of matrix metalloproteinase 9 is enhanced by Epstein-Barr virus latent membrane protein 1"Proc.Natl.Acad.Sci. 95 (3). 3621-3626 (1998) ▼

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