

Molecular, biological studies on the mechanism of neck metastasis from nasopharyngeal carcinoma

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2003 Fiscal Year Final Research Report Summary

Molecular, biological studies on the mechanism of neck metastasis from nasopharyngeal carcinoma

Research Project

Project/Area Number

13470358

Research Category

Grant-in-Aid for Scientific Research (B)

Allocation Type

Single-year Grants

Section

一般

Research Field

Otorhinolaryngology

Research Institution

Kanazawa University

Principal Investigator

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Project Period (FY)

2001 - 2003

Keywords

LMP1 / MMP9 / NF-κB / I-κB / Invasiveness / Metastasis / Gene targeted therapy / Aspirin

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 IV collagen, 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

Research Products (14 results)

All Other
All Publications

- [Publications] K.Endo, T.Takino, H.Miyamori, H.Kinsen, T.Yoshizaki, M.Furukawa, H.Sato: "Cleavage of Svndecn-1 by Membrane Type Matrix Metalloproteinase-1 Stimulates Cell Migration" *The Journal of Biological Chemistry*. 278(42). 40764-40770 (2003) ▼
- [Publications] H.Kinsen, H.Sato, M.Furukawa, T.Yoshizaki: "Modulation of Cell Growth and Matrix Metalloproteinase-2 Activation of Oral Squamous Cell Carcinoma as a Function of Culture Condition with Type 1 Collagen" *Acta Otolaryngol*. 123. 987-993 (2003) ▼
- [Publications] 吉崎智一, 近藤 悟, 古川 初: "上咽頭がんにおける血清EBV-DNA量と抗EBV抗体価" *耳鼻免疫アレルギー*. 21(4). 23-26 (2003) ▼
- [Publications] 古川 初: "上咽頭癌と臨床解剖" *JOHNS*. 20(1). 130-131 (2004) ▼
- [Publications] T.Yoahizaki, Y.Maruyama, H.Sato, M.Furukawa: "Expression of tissue inhibitor of matrix metalloproteinase-2 and predicts poor prognosis in tongue squamous cell carcinoma" *International Journal of Cancer (Pred.Oncol.)*. 95. 44-50 (2001) ▼
- [Publications] T.Horikawa, T.-S.Sheen, H.Takeshita, H.Sato, M.Furukawa, T.Yoshizaki: "Induction of c-Met Proto-Oncogene by Epstein-Barr Virus Latent Membrane Protein-1 and the Correlation with Cervical Lymph Node Metastasis of Nasopharyngeal Carcinoma." *American Journal of Pathology*. 159(1). 27-33 (2001) ▼
- [Publications] T.Yoshizaki, T.Horikawa, R.-Q.Chun, N.Wakisaka, H.Takeshita, T.-S.Sheen, S.-Y.Lee, H.Sato, M.Furukawa: "Induction of Interleukin-8 by Epstein-Barr Virus Latent Membrane Protein-1 and Its Correlation to Angiogenesis in Nasopharyngeal Carcinoma." *Clinical Cancer Research*. 7. 1946-1951 (2001) ▼
- [Publications] S.Murono, H.Inoue, T.Tanabe, I.Joab, T.Yoshizaki, M.Furukawa, S.Pagano: "Induction of cyclooxygenase-2 by Epstein-Barr virus latent membrane protein 1 is involved in vascular endothelial growth factor production in nasopharyngeal carcinoma cells." *Proc.Natl.Acad.Sci.USA*. 98. 6905-6910 (2001) ▼
- [Publications] T.Yoshizaki, H.Sato, M.Furukawa: "Recent advances in the regulation of matrix metalloproteinase 2 activation : From basic research to clinical implication" (Review) *Oncology Report*. 9. 607-611 (2002) ▼
- [Publications] T.Yoshizaki: "Promotion of metastasis in nasopharyngeal carcinoma by Epstein-Barr virus latent membrane protein-1." *Histology and Histopathology*. 17. 845-850 (2002) ▼
- [Publications] K.Maekawa, H.Sato, M.Furukawa, T.Yoshizaki: "Inhibition of cervical lymph node metastasis by marimstat(BB-2516) in an orthotopic oral squamous cell carcinoma implantation model." *Clinical & Experimental Metastasis*. 19. 513-518 (2002) ▼
- [Publications] N.Wakisaka, S.Murono, T.Yoshizaki, M.Furukawa, S.Pagano: "Epstein-Barr virus latent membrane protein 1 induces and causes release of fibroblast growth factor-2." *Cancer Res*. 62. 6337-6344 (2002) ▼
- [Publications] K.Endo, T.Takino, H.Miyamori, H.Kinsen, T.Yoshizaki, M.Furukawa, H.Sato: "Cleavage of Syndecan-1 by Membrane Type Matrix Metalloproteinase-1 Stimulates Cell Migration." *The Journal of Biological Chemistry*. 278(42). 40764-40770 (2003) ▼
- [Publications] H.Kinsenn, H.Sato, M.Furukawa, T.Yoshizaki: "Modulation of Cell Growth and Matrix Metalloproteinase-2 Activation of Oral Squamous Cell Carcinoma as a Function of Culture Condition with Type I Collagen." *Acta Otolaryngol*. 123. 987-993 (2003) ▼

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