EBウイルスによる上皮細胞の発癌性について

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Tumorigenicity in Epstein-Barr virus (EBV)-infected epithelial cells

Research Project

Project/Area Number

63570806

Research Category

Grant-in-Aid for General Scientific Research (C)

Allocation Type

Single-year Grants

Research Field

Otorhinolaryngology

Research Institution

KANAZAWA UNIVERSITY

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1988 – 1989

Keywords

EPSTEIN-BARR VIRUS / NASOPHARYNGEAL CARCINOMA / TUMORIGENICITY / HYBRID CELLS / CLONING

Research Abstract

We have succeeded in establishing an Epstein-Barr virus (EBV) genome- positive and epithelial cell line by the fusion of EBV-transformed lymphoid cells with an epithelial cells. However, the epithelial hybrid cells (A2L/AH) were nontumorigenic in nude mice during early passage levels. Thereafter, an EBV genome-negative clone and two EBV genome-positive clones of the A2L/AH cells have been successfully cloned. We have continued to culture these three clones, as it is possible that EBV may disturb mechanisms that regulate tumorigenicity when cells are grown in vitro for long periods of time. Two EBV genome-positive A2L/AH clones have become tumorigenic in nude mice after long period of time. The data suggest that EBV may be associated with tumorigenicity in nude mice, at least in part.

Research Products (8 results)

All | Other

All | Publications (8 results)

[Publications] 滝元徹: "The difference in tumorigenicity between Epstein-Barr virus (EBV) genome-positive and genome-negative hybrid cell lines derived from the human nasopharynx" LARYNGOSCOPE. 98. 1334-1338 (1988)

[Publications] 滝元徹: "Further studies on growth characteristics of Epstein-Barr virus(EBV)genome-positive and -negative epithelial hybrid cell lines" LARYNGOSCOPE. 99. 741-743 (1989)

[Publications] 滝元徹: "Differnces in the ability of cells to fuse are mediated by strains of Epstein-Barr virus" LARYNGOSCOPE. 99. 1075-1080 (1989)

[Publications] 滝元徹: "INTERACTION BETWEEN EPSTAIN-BARR VIRUS(EBV)AND HUMAN CELL LINES: GROWTH AND EBV INDUCTION" ORL. 52. 40-46 (1990)

[Publications] Takimoto, T., et al: "the differences in tumorigenicity between Epstein-Barr virus (EBV) genome-positive and genome-negative hybrid cell lines derived from the human nasopharynx." Laryngoscope 98:1334-1338, 1988.

[Publications] Takimoto, T., et al.: "Further studies on growth characteristics of Epstein-Barr virus (EBV) genome-positive and -negative epithelial hybrid cell lines." Laryngoscope 99:741-743 1989.

[Publications] Takimoto, T. et al.: "Differences in the ability of cells to fuse are mediated by strains of Epstein-Barr virus." Laryngoscope 99:1075-1080 1989.

[Publications] Takimoto, T. et al.: "Interaction between Epstein-Barr virus (EBV) and human cell line: Growth and EBV induction." ORL 52:40-46 1990.

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