

{ Poster Presentation }

P#1

Expression Patterns of Tumor Necrosis Factor Receptors on Lymphoma Cells in Enzootic Bovine Leukosis

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Tumor necrosis factor-alpha (TNF- α) has been reported to be associated with the progression of lymphoproliferative neoplastic diseases and retroviral infections. Hence we examined immunohistochemically the expression patterns of TNF-receptors (TNF-RI and RII)

on lymphoma cells derived from the 29 enzootic bovine leucosis (EBL). Obtained lymphomas in 29 animals with EBL were histopathologically classified into three types: diffuse mixed type (10 cases), diffuse large type (9 cases), and diffuse large cleaved type (10 cases). Immunohistochemically using a monoclonal antibody to a bovine lymphocyte surface antigen, the lymphomas were classified into three phenotypes: B-1a (CD5+/CD11b+), B-1b (CD5-/CD11b+) and B-2 (conventional B) (CD5-/CD11b-). Interestingly, the lymphoma cells in all animals expressed TNF-RII, but not TNF-RI. Although, in EBL, lymphoma cells of which the histopathological and immunological property differs has been formed, the expression patterns of TNF-Rs had the universality in all lymphoma cells. TNF-RII, which induces cell proliferation, was expressed but TNF-RI, which induces cell apoptosis was not expressed on all lymphoma cells, suggesting that TNF-Rs plays an important role in the malignant proliferation of B cells and formation of lymphomas in EBL.

P#2

Pathology of Neospora Caninum Infection in an Adult Dog

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