



# ECVP/ESVP Summer School in Veterinary Pathology



## Marie Curie Training Courses

Summer School 2008 – CNS Case 22

### Case 22) S 1611/07: Tissue from a DOG

Cerebellum and brainstem: Multifocally, the periventricular areas exhibit small to medium-sized vacuoles (dilation of myelin sheaths). Vacuoles are surrounded by astrocytes and microglial cells. Rarely, the white matter shows loss of eosinophilia (loss of myelin). The meninges exhibit a mild multifocal infiltration with mainly lymphocytes and histiocytes and to a lesser extent plasma cells. Some astrocytes show nuclear margination of chromatin with intranuclear up to 5  $\mu\text{m}$  in diameter eosinophilic inclusions (viral inclusion bodies). Rarely, similar inclusions can be found intracytoplasmically within astrocytes.

#### Morphologic diagnoses:

Cerebellum and brainstem:

- 1) Meningitis, lympho-histiocytic, multifocal, mild, acute
- 2) Encephalitis, demyelinating, mild, acute, with eosinophilic cytoplasmic and intranuclear inclusion bodies

#### Etiology:

Canine distemper virus