



ECVP/ESVP Summer School in Veterinary Pathology



Marie Curie Training Courses

Summer School 2008 – CNS Case 1

Case 1) S 2459/90:

Tissue from a HORSE

Cerebellum: The cerebellum displays remnants of an outer granular cell layer (neonatal/early juvenile brain). The inner granular layer shows severe diffuse depletion of neurons (granular cells), resulting in a spongiform appearance. There is multifocal segmental lack of Purkinje cells and single necrotic Purkinje cells, characterized by hypereosinophilic cytoplasm and shrinkage of the nucleus. Several Purkinje cells are located ectopically within the inner granular cell layer. The white matter contains a mildly increased number of astrocytes (astrogliosis).

Morphologic diagnosis:

Cerebellum: Cerebellar abiotrophy

Differential diagnosis:

Cerebellar hypoplasia