



# ECVP/ESVP Summer School in Veterinary Pathology



## Marie Curie Training Courses

### Summer School 2008 – Skeletal Muscle B 14365-06

Case #B (B 14365-06)

Anamnesis: Dog

History: Lameness and swelling of the left stifle had been noted for a couple of weeks. A slow growing tumour was seen involving the stifle and spreading to adjacent tissues. The regional lymph node was also enlarged.

Slide description: A densely cellular tissue composed of proliferation of pleomorphic neoplastic cells is present within the synovial membrane and subjacent joint capsule. Villus structures formed in the tumour mass outlined by a superficial layer of synoviocytes-like cells. The neoplastic cells are characterised by a mixture of spindle cells and round cells intermingled with multinucleated giant cells. The nuclei vary in size and shape (anisokaryosis). The cells are multifocally arranged in storiform and angiocentric patterns. The neoplastic cells have a high mitotic rate, and some atypical mitoses are present. Accompanying the neoplastic cells are low numbers of lymphocytes and neutrophils.

Additional information: The cells were multifocally positive for CD18 and negative for cytokeratin.

Diagnosis: Histiocytic sarcoma

Differential diagnosis: Synovial sarcoma

The tumour cells have to be identified by immunohistochemistry CD18 and cytokeratin (Craig et al 2002, vet path). The present tumour was positive for CD18.