# ECVP/ESVP SUMMER SCHOOL IN VETERINARY PATHOLOGY 2015

**Case 4**

**Tissue from a cat**

- The iris and ciliary body stroma is moderately to markedly infiltrated by small lymphocytes and plasma cells (anterior uveitis)
- Lymphocytes and plasma cells coat the anterior iris surface and infiltrate the corneal endothelium (keratic precipitates KPs)
- Lymphocytes and plasma cells coat the ciliary body processes associated with fibrous membrane formation
- At the drainage angle, the ciliary cleft and trabecular meshwork are collapsed
- The lens capsule is wrinkled and there is loss (liquefaction) of the lens cortex (hypermature cataract)
- The posterior lens capsule is focally ruptured
- Low numbers of neutrophils and macrophages infiltrate the lens remnants
- The inner retina is coated by moderate numbers of lymphocytes and plasma cells
- Fine pre-retinal fibrovascular membranes are present
- There is inner retinal atrophy characterised by loss of the inner nerve fibre layer and ganglion cells
- The optic nerve head is degenerate and cupped
- Corneal changes include infiltration of the stroma by blood vessels (neovascularisation), multifocal re-duplication of Descemet's membrane and multifocal replacement of the corneal endothelium by fibrous membranes (fibrous metaplasia)

**Morphologic diagnosis(es):**

- Moderate to marked lymphoplasmacytic anterior uveitis
- Hypermature cataract and focal posterior lens capsule rupture
- Intraocular fibrovascular membrane formation (pre-retinal, ciliary body)
- Glaucoma (secondary)