



# ECVP/ESVP Summer School in Veterinary Pathology



## Marie Curie Training Courses

Summer School 2006 – Toxicological Pathology 90-11362

### Slide 6. H-5 (90-11362) Goat

#### Description (14)

*Loss of centrilobular hepatocytes – replaced by necrotic debris, inflammatory cells – neutrophils, mononuclear cells, a few fibroblasts, and hemorrhage (6)*

*Multifocal apoptosis (2)*

*Mitotic figures at periphery of necrosis (2)*

*Bile canicular and bile ductular stasis (2)*

*Karyomegaly, cytomegaly, scattered (1)*

*Prominent Ito cells (1)*

*Subcapsular hemorrhage*

#### Morphologic Diagnosis(es) (5)

*Severe subacute centrilobular hepatocellular necrosis with bridging (4)*

*Mild to moderate cholestasis, intracanalicular and bile ductular (1)*

#### Possible cause(s) (1)

*Copper toxicity*

*Plant toxicity e.g. those containing pyrrolizidine alkaloids*

**Additional information:** *Tissues from a 11 yr F goat. Vet gross dx of nutmeg liver, gall bladder filled with bloody fluid, congested lung*

*Kidneys – nephrosis with regeneration, orange-red casts*

*Liver copper of 623 pm dry weight , kidney copper of 131 ppm.*