



ECVP/ESVP Summer School in Veterinary Pathology



Marie Curie Training Courses

Summer School 2006 – Toxicological Pathology 94-00626

10. H-3. (94-00626) Rat

Description

Liver:

Distribution: mainly centrilobular

Lesion: Hepatocytes have condensed eosinophilic cytoplasm, nuclei are condensed

Hyaline bodies within hepatocytes (cell fragments, phagolysosomes)

Many hepatocytes undergoing mitosis, not specifically adjacent to affected hepatocytes.

Kidney:

Individual tubular epithelial cells at CM junction are deeply eosinophilic with condensed nuclei – some sloughing into lumen

Morphologic diagnosis(es)

Moderate acute to subacute centrilobular hepatocellular apoptosis with regeneration

Minimal acute multifocal tubular epithelial cell apoptosis (CM junction)

Additional information: *Rat treated with fumonisin B1 which inhibits ceramide synthase, increases sphinganine and sphingosine conc in cells.*