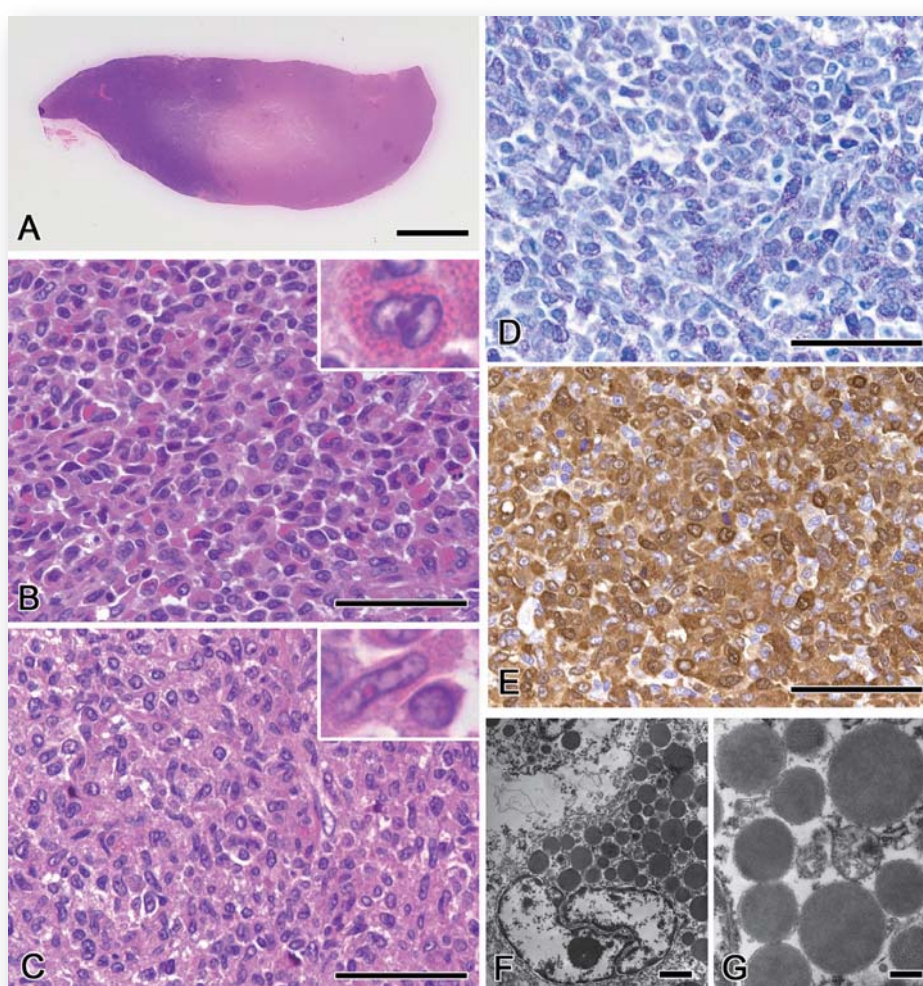




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Description

The *Journal of Toxicologic Pathology* is an official periodical journal of the Japanese Society of Toxicologic Pathology. The journal accepts original papers, short communications, case reports and review articles. One volume published each year is composed of four numbers. Members of the Society are entitled to receive all publications in exchange for his or her membership fee. All articles published in the *Journal of Toxicologic Pathology* represent the opinion(s) of the author(s) and should not be construed to reflect the opinion of the Society.

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Cover: Malignant mast cell tumor of the thymus in RCS rat. (A) The mass is composed of an eosinophilic area with a mast cell tumor and a basophilic area with hyperplastic epithelial cells and numerous lymphocytes (HE stain; scale bar: 5 mm). (B) Round tumor cells are arranged in dense sheets and possess small- to large-sized eosinophilic granules (HE stain; scale bar: 50 μ m). Inset: enlarged image of cytoplasmic granules. (C) Round to short-spindled tumor cells include fine small-sized granules (HE stain; scale bar: 50 μ m). Inset: enlarged image of cytoplasmic granules. (D) Cytoplasmic granules show metachromasia (toluidine blue stain; scale bar: 50 μ m). (E) Immunoreactivity for rat mast cell proteinase II is detected; almost all tumor cells are strongly positive (scale bar: 50 μ m). (F and G) The various-sized granules contain nonstructural and homogeneous materials consistent with mast cell granules (scale bar: 1 μ m for F; 200 nm for G). (See Yui Terayama, *et al.* p 63–67)