



## **Atlas of Histology of the Juvenile Rat**

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# Atlas of Histology of the Juvenile Rat

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Atlas of Histology of the Juvenile Rat should be of interest to toxicologic pathologists, toxicologists, and other biological scientists who are interested in the histomorphology of juvenile rats. For several decades the laboratory rat has been used extensively in nonclinical toxicology studies designed to detect potential human toxicity of drugs, agrochemicals, industrial chemicals, and environmental hazards. These studies traditionally have involved young adult rats that are 8-10 weeks of age as studies are started. It is becoming increasingly apparent that children and young animals may have different responses to drug/chemical exposures, therefore, regulatory agencies are emphasizing toxicology studies in juvenile animals.

While the histologic features of organs from young adult and aged laboratory rats are well known, less is known about the histologic features of organs from juvenile rats. Final histologic maturity of many organs is achieved postnatally, thus immature histologic features must be distinguished from chemical- or drug-related effects. While this postnatal organ development is known to exist as a general concept, detailed information regarding postnatal histologic development is not readily available. The Atlas includes organs that are typically sampled in nonclinical toxicology studies and presents the histologic features at weekly intervals, starting at birth and extending through postnatal day 42.

- Written and edited by highly experienced, board-certified toxicologic pathologists
- Includes more than 700 high-resolution microscopic images from organs that are typically examined in safety assessment toxicology studies
- Detailed figure legends and chapter narratives present the salient features of each organ at each time interval
- Figures are available for further study via Elsevier's Virtual Microscope, which allows viewing of microscopic images at higher magnification
- Valuable resource for toxicologic pathologists who are confronted with interpretation of lesions in juvenile rats in situations where age-matched concurrent controls are not available for comparison, e.g., with unscheduled decedents
- Figures are available for further study on ScienceDirect with Virtual Microscope, which allows viewing of microscopic images at higher magnification

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