CONTENTS

Regulatory Forum
Abigail C. Jacobs and Paul C. Brown 605

Regulatory Forum Opinion Piece*: Retrospective Evaluation of Doses in the 26-week Tg.rasH2 Mice Carcinogenicity Studies: Recommendation to Eliminate High Doses at Maximum Tolerated Dose (MTD) in Future Studies
Madhav G. Paranjpe, Melissa D. Denton, Tom J. Vidmar, and Reem H. Elbekai 611

Regulatory Forum Commentary* Counterpoint: Dose Selection for Tg.rasH2 Mouse Carcinogenicity Studies
Jarig Darbes, Frank D. Sistare, and Joseph J. DeGeorge 621

Regulatory Forum Commentary* Counterpoint: Dose Selection for rasH2 Mouse Carcinogenicity Studies
Prashant R. Nambiar and Daniel Morton 628

Invited Review
Practical Applications of in Vivo and ex Vivo MRI in Toxicologic Pathology Using a Novel High-performance Compact MRI System
Catherine Tempel-Brami, Yael S. Schiffenbauer, Abraham Nyska, Nati Ezov, Itai Spector, Rinat Abramovitch, and Robert R. Maronpot 633

Review Article
Extraparenchymal Bile/Pancreatic Ducts and Duodenal Papillae: Pathologic Evaluation in Nonclinical Species—A Brief Review
Kapil Vashisht, Sherry L. Nady, Rita D. Engler, Brian K. Kelsch, Susan N. Lynk, Benjamin R. Cape, Guenther Hoffmann, Emily K. Meseck, and Robert C. Johnson 651

Original Articles
Impact of Pathologists and Evaluation Methods on Performance Assessment of the Kidney Injury Biomarker, Kim-1
Rodney Rouse, Min Min, Sabine Francke, Steven Mog, Jun Zhang, Katherine Shea, Sharron Stewart, and Thomas Colatsky 662

Spontaneously Occurring Formation of Intracellular and Cytoplasmic Inclusions in Renal Proximal Epithelium Due to Accumulation of \( \alpha \)-Amino Acid Oxidase in Wistar Hannover Rats
Natsumi Shimoyama, Shunji Nakatsuji, Rie Andoh, Yuko Yamaguchi, Kazutoshi Tamura, and Toru Hoshiya 675

Cover: Kidney section from a 110-day-old control male Wistar Hannover rat stained with H&E. Intranuclear and intracytoplasmic inclusions, characterized as homogenous eosinophilic round bodies, are present in the proximal tubular epithelium. In the nuclei, these inclusions are surrounded by a clear halo, consistent with chromatin margination. The inset shows positive immunohistochemical staining for D-amino acid oxidase (DAO). (See Shimoyama et al., pp. 675–680)

Diagnosis: Spontaneous Renal Inclusions
Histopathological and Immunohistochemical Characterization of Methyl Eugenol–induced Nonneoplastic and Neoplastic Neuroendocrine Cell Lesions in Glandular Stomach of Rats

Kyathanahalli S. Janardhan, Yvette Rebolloso, Geoffrey Hurlburt, David Olson, Otis Lyght, Natasha P. Clayton, Margarita Gruebbel, Catherine Picut, Cynthia Shackelford, and Ronald A. Herbert

Reduced Activity of Sphingosine-1-Phosphate Lyase Induces Podocyte-related Glomerular Proteinuria, Skin Irritation, and Platelet Activation

Jens Schümann, Armelle Grevot, David Ledieu, Armin Wolf, Anna Schubart, Alessandro Piaia, Esther Sutter, Serge Côté, Christian Beerli, François Pognan, Andreas Billich, Pierre Moulin, and Ursula Junker Walker

Effect of Sodium Arsenite on Mouse Skin Carcinogenesis

Mónica A. Palmieri and Beatriz L. Molinari

Effects of Chronic Ochratoxin A Exposure on p53 Heterozygous and p53 Homozygous Mice

Genevieve S. Bondy, Donald S. Caldwell, Syed A. Aziz, Laurie C. Coady, Cheryl L. Armstrong, Ivan H. A. Curran, Robyn L. Koffman, Kamla Kapal, David E. Lefebvre, and Rekha Mehta

Brief Communications

International Harmonization of Nomenclature and Diagnostic Criteria (INHAND): Progress to Date and Future Plans


Artifactual Stratum Corneum Calcification of the Beagle Dog Tongue

Christiana Glover and Ricardo Ochoa

Characterization of Periodic Acid-Schiff-Positive Granular Deposits in the Hippocampus of SJL/J Mice

Armend Cana, Vanessa Herder, Florian Hansmann, Andreas Beineke, Wolfgang Baumgartner, and Ingo Spitzbarth

Immunohistochemical Characterization of Spontaneous Sertoli Cell Clusters in the Seminiferous Tubules of C57BL/6J Mice

Akiko Anagawa-Nakamura, Kochi Kakimoto, Katsuhiko Miyajima, Yuzo Yasui, Yusuke Kemmochi, Kaoru Toyoda, Eriko Taniai, Akemi Takahashi, and Toshiyuki Shoda

Book Review

Toxicologic Pathology: Nonclinical Safety Assessment

Reviewed by Sabine Francke

Retraction