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**On the Cover:** Over-expression of human Goodpasture antigen-binding protein (hGPBP) triggers glomerular abnormalities, including deposits of IgA on a capillary glomerular basement membrane that undergoes dissociation. Glomerular sections were analyzed by confocal microscopy to visualize colocalization of IgA deposits (green), displaying mixed capillary and mesangial distribution, with the  $\alpha 3. \alpha 4. \alpha 5(\text{IV})$  (red) and  $\alpha 1. \alpha 1. \alpha 2(\text{IV})$  (blue) collagen networks (see page 1419).

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## Review

- 1407 The Emerging Role of Valve Interstitial Cell Phenotypes in Regulating Heart Valve Pathobiology  
Amber C. Liu, Vineet R. Joag, and Avrum I. Gottlieb

## Original Research Papers

### *Cardiovascular, Pulmonary, and Renal Pathology*

- 1419 Increased Goodpasture Antigen-Binding Protein Expression Induces Type IV Collagen Disorganization and Deposit of Immunoglobulin A in Glomerular Basement Membrane  
Fernando Revert, Ramón Merino, Carlos Monteagudo, Jesús Macías, Amando Peydró, Javier Alcácer, Pedro Muniesa, Regina Marquina, Mario Blanco, Marcos Iglesias, Francisco Revert-Ros, Jesús Merino, and Juan Saus
- 1431 Fibroblast Growth Factor-2 Regulates Myocardial Infarct Repair: Effects on Cell Proliferation, Scar Contraction, and Ventricular Function  
Jitka A.I. Virag, Marsha L. Rolle, Julia Reece, Sandrine Hardouin, Eric O. Feigl, and Charles E. Murry
- 1441 Decorin Deficiency Enhances Progressive Nephropathy in Diabetic Mice  
Kevin Jon Williams, Gang Qiu, Hitomi Katoaka Usui, Stephen R. Dunn, Peter McCue, Erwin Bottinger, Renato V. Iozzo, and Kumar Sharma

### *Cell Injury, Repair, Aging and Apoptosis*

- 1451 Chronic Ultraviolet B Irradiation Causes Loss of Hyaluronic Acid from Mouse Dermis Because of Down-Regulation of Hyaluronic Acid Synthases  
Guang Dai, Till Freudenberger, Petra Zipper, Ariane Melchior, Susanne Grether-Beck, Berit Rabausch, Jens de Groot, Sören Twarock, Helmut Hanenberg, Bernhard Homey, Jean Krutmann, Julia Reifemberger, and Jens W. Fischer
- 1462 Human Pancreatic Secretory Trypsin Inhibitor Stabilizes Intestinal Mucosa against Noxious Agents  
Tania Marchbank, Asif Mahmood, Anthony J. Fitzgerald, Jan Domin, Matt Butler, Robert A. Goodlad, George Elia, Helen M. Cox, David A. van Heel, Subrata Ghosh, and Raymond J. Playford
- 1474 Clusterin Associates with Altered Elastic Fibers in Human Photoaged Skin and Prevents Elastin from Ultraviolet-Induced Aggregation *in Vitro*  
Elke Janig, Martin Haslbeck, Ariane Aigelsreiter, Nathalie Braun, Daniela Untertbor, Peter Wolf, Noor M. Khaskbely, Johannes Buchner, Helmut Denk, and Kurt Zailoukal
- 1483 The Tumor Gene Survivin Is Highly Expressed in Adult Renal Tubular Cells: Implications for a Pathophysiological Role in the Kidney  
Philipp Lechler, Xiaoqing Wu, Wanja Bernhardt, Valentina Campean, Susanne Gastiger, Thomas Hackenbeck, Bernd Klank, Alexander Weidemann, Christina Warnecke, Kerstin Amann, Dirk Engebauten, Carsten Willam, Kai-Uwe Eckardt, Franz Rödel, and Michael Sean Wiesener

*Continued*

Gastrointestinal, Hepatobiliary and Pancreatic Pathology

- 1499 FasL Expression in Hepatic Antigen-Presenting Cells and Phagocytosis of Apoptotic T Cells by FasL<sup>+</sup> Kupffer Cells Are Indicators of Rejection Activity in Human Liver Allografts  
*Aya Miyagawa-Hayashino, Tatsuaki Tsuruyama, Hiroto Egawa, Hironori Haga, Hiromi Sakashita, Tomoko Okuno, Shinya Toyokuni, Keiji Tamaki, Hirohiko Yamabe, Toshiaki Manabe, and Shinji Uemoto*
- 1509 The Cables Gene on Chromosome 18q Is Silenced by Promoter Hypermethylation and Allelic Loss in Human Colorectal Cancer  
*Do Youn Park, Hideo Sakamoto, Sandra D. Kirley, Shuji Ogino, Takako Kawasaki, Eunjeong Kwon, Mari Mino-Kenudson, Gregory Y. Lauwers, Daniel C. Chung, Bo R. Rueda, and Lawrence R. Zukerberg*
- 1520 Accelerated Progression of Gastritis to Dysplasia in the Pyloric Antrum of TFF2<sup>-/-</sup> C57BL6 × Sv129 *Helicobacter pylori*-Infected Mice  
*James G. Fox, Arlin B. Rogers, Mark T. Whary, Zhongming Ge, Masa Obtani, Evelyn Kurt Jones, and Timothy C. Wang*
- 1529 Thy-1 Is Expressed in Hepatic Myofibroblasts and Not Oval Cells in Stem Cell-Mediated Liver Regeneration  
*Katalin Dezső, Peter Jelnes, Viktória László, Kornélia Baghy, Csaba Bödör, Sándor Paku, Niels Tygstrup, Hanne Cathrine Bisgaard, and Peter Nagy*

Immunopathology and Infectious Disease

- 1538 Pathogenesis of Aryl Hydrocarbon Receptor-Mediated Development of Lymphoma Is Associated with Increased Cyclooxygenase-2 Expression  
*Christoph F.A. Vogel, Wen Li, Eric Sciallo, John Newman, Bruce Hammock, J. Rachel Reader, Joseph Tuscano, and Fumio Matsumura*
- 1549 CCL21 Expression Pattern of Human Secondary Lymphoid Organ Stroma Is Conserved in Inflammatory Lesions with Lymphoid Neogenesis  
*Antonio Manzo, Serena Bugatti, Roberto Caporali, Remko Prevo, David G. Jackson, Mariagrazia Uguccioni, Christopher D. Buckley, Carlomaurizio Montecucco, and Costantino Pitzalis*
- 1563 Targeting Inflammatory Demyelinating Lesions to Sites of Wallerian Degeneration  
*Ikuo Tsunoda, Tomoko Tanaka, Yukio Saijob, and Robert S. Fujinami*

Musculoskeletal Pathology

- 1576 Enhanced Na<sup>+</sup>/H<sup>+</sup> Exchange Activity Contributes to the Pathogenesis of Muscular Dystrophy via Involvement of P2 Receptors  
*Yuko Iwata, Yuki Katanosaka, Takashi Hisamitsu, and Shigeo Wakabayashi*
- 1588 Molecular Interactions between T Cells and Fibroblast-Like Synoviocytes: Role of Membrane Tumor Necrosis Factor- $\alpha$  on Cytokine-Activated T Cells  
*Chinh N. Tran, Steven K. Lundy, Peter T. White, Judith L. Endres, Christopher D. Motyl, Raj Gupta, Cailin M. Wilke, Eric A. Shelden, Kevin C. Chung, Andrew G. Urquhart, and David A. Fox*
- 1599 Transgenic Overexpression of ADAM12 Suppresses Muscle Regeneration and Aggravates Dystrophy in Aged *mdx* Mice  
*Louise Helskov Jørgensen, Charlotte Harken Jensen, Ulla M. Wewer, and Henrik Daa Schrøder*

Tumorigenesis and Neoplastic Progression

- 1608 Stromal Fibroblasts in Colorectal Liver Metastases Originate From Resident Fibroblasts and Generate an Inflammatory Microenvironment  
*Lars Mueller, Freya A. Goumas, Marianne Affeldt, Susanne Sandtner, Ursula M. Gebling, Silke Brilloff, Jessica Walter, Nadia Karnatz, Katrin Lamszus, Xavier Rogiers, and Dieter C. Broering*
- 1619 Caveolin-1 Is Critical for the Maturation of Tumor Blood Vessels through the Regulation of Both Endothelial Tube Formation and Mural Cell Recruitment  
*Julie DeWever, Françoise Frérart, Caroline Bouzin, Christine Baudelet, Réginald Anstiaux, Pierre Sonveaux, Bernard Gallez, Chantal Dessy, and Olivier Feron*
- 1629 *Snai2* Expression Enhances Ultraviolet Radiation-Induced Skin Carcinogenesis  
*Kimberly M. Newkirk, Allison E. Parent, Stacey L. Fossey, Changsun Choi, Heather L. Chandler, Päivi J. Rajala-Schultz, and Donna F. Kusewitt*

Continued

- 1640 Myosin II Co-Chaperone General Cell UNC-45 Overexpression Is Associated with Ovarian Cancer, Rapid Proliferation, and Motility  
*Martina Bazzaro, Antonio Santillan, Zhenhua Lin, Taylor Tang, Michael K. Lee, Robert E. Bristow, Je-Ming Shib, and Richard B.S. Roden*
- 1650 Genomic and Proteomic Profiles Reveal the Association of Gelsolin to TP53 Status and Bladder Cancer Progression  
*Marta Sanchez-Carbayo, Nicholas D. Socci, Lee Richstone, Marta Corton, Nille Bebrendt, Julia Wulkefuble, Bernard Bochner, Emmanuel Petricoin, and Carlos Cordon-Cardo*
- 1659 Plasmin-Cleaved  $\beta$ -2-Glycoprotein 1 Is an Inhibitor of Angiogenesis  
*Taro Sakai, Krishnakumar Balasubramanian, Sourindra Maiti, Jyotsna B. Halder, and Alan J. Schroit*  
*Vascular Biology, Atherosclerosis and Endothelium Biology*
- 1670 Reactive Aldehyde Modification of Thioredoxin-1 Activates Early Steps of Inflammation and Cell Adhesion  
*Young-Mi Go, Patrick J. Halvey, Jason M. Hansen, Matt Reed, Jan Pobl, and Dean P. Jones*
- 1682 Cartilage Oligometric Matrix Protein-Angiopoietin-1 Promotes Revascularization Through Increased Survivin Expression in Dermal Endothelial Cells of Skin Grafts in Mice  
*Seung-Jae Byun, Kyu-Sil Choi, Sung Hoon Park, Nam Woo Cho, Chang Hyun Yoo, Ki Jung Yun, Young Jun Kob, Gou Young Kob, Byung Jun So, and Kwon-Ha Yoon*
- 1691 Relative Reduction of Endothelial Nitric-Oxide Synthase Expression and Transcription in Atherosclerosis-Prone Regions of the Mouse Aorta and in an *in Vitro* Model of Disturbed Flow  
*Doyon Won, Su-Ning Zbu, Mian Chen, Anouk-Martine Teichert, Jason E. Fish, Charles C. Matouk, Michael Bonert, Matadial Ojba, Philip A. Marsden, and Myron I. Cybulsky*
- 1705 Requirement of Apelin-Apelin Receptor System for Oxidative Stress-Linked Atherosclerosis  
*Tatsuo Hashimoto, Minoru Kihara, Nozomi Imai, Shin-ichiro Yoshida, Hiroaki Shimoyamada, Hiroaki Yasuzaki, Junji Ishida, Yoshiyuki Toya, Yoshihiro Kiuchi, Nobuhito Hirawa, Kouichi Tamura, Takuya Yazawa, Hitoshi Kitamura, Akiyoshi Fukamizu, and Satoshi Umemura*
- 1713 Microparticles of Human Atherosclerotic Plaques Enhance the Shedding of the Tumor Necrosis Factor- $\alpha$  Converting Enzyme/ADAM17 Substrates, Tumor Necrosis Factor and Tumor Necrosis Factor Receptor-1  
*Mathias Canault, Aurélie S. Leroyer, Franck Peiretti, Guy Lesèche, Alain Tedgui, Bernadette Bonardo, Marie-Christine Alessi, Chantal M. Boulanger, and Gilles Nalbone*

### Correspondence

- 1724 Modeling Metabolic Effects of the HIV Protease Inhibitor Ritonavir *In Vitro*  
*Jeffrey Laurence, Rozbeh Modarresi, Xinwen Wang, Qizhi Yao, and Changyi Chen*
- 1726 Cancer and Epigenetic Reversion—The Fundamental Role of Redox  
*Eleni Papadopulos-Eleopulos, Barry A. P. Page, David Casuser, Valendar F. Turner, John M. Papadimitriou, and Andrew Maniotis*

### 1728 Retraction

### 1729 ASIP Journal CME Program in Pathogenesis

▼ denotes participating articles in this issue