

## **The Liver Biology And Pathobiology By I M Arias James L Boyer Nelson Fausto William B Jakoby David Schachter David A Shafitz**

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"Reseña del editor The third edition of this classic work incorporates the past six years' groundbreaking discoveries on the structure and function of the liver and the mechanisms underlying liver diseases. Ten new chapters focus on advances in molecular, cellular, and immunobiology, including such areas as mechanisms of signal transduction, growth control, and cell death; biliary cell and membrane biology; the hepatic microcirculation; transformation in the liver; and molecular aspects of autoimmune liver disease. The section on pathobiologic mechanisms includes new chapters on immune mechanisms of cellular injury in viral hepatitis; viral mechanisms in hepatic oncogenesis; the pathobiology of portal hypertension; and fibrogenesis. Seven new chapters explore major areas of future research, such as liver stem cells; hepatocyte transplantation; gene therapy by targeting nucleic acids to hepatocytes; the process of apoptosis in liver adaptation and carcinogenesis; regulation of the eukaryotic cell cycle, mechanisms of action of the immunosuppressants cyclosporin A and FK-506; and transgenic and "gene-knockout" animal models of liver disease. All chapters from the Second Edition have been updated."

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