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Nota di contenuto	Current in vitro models to study drug-induced liver injury / Julio C. Davila ... [et al.] -- Utilization of an in vitro hepatotoxicity test in the early stage of drug discovery / Ikuo Horii ... [et al.] -- Use of hepatocytes for characterizing a candidate drug's metabolism and drug interaction potential / Srikanth C. Nallani, John M. Strong, and Shiew Mei Huang -- Human-based in vitro experimental systems for the evaluation of human drug safety / Albert P. Li -- Hepatocytes as a model for screening food-related hepatotoxins and studying mechanisms of their toxicity / Saura C. Sahu -- Some experimental models of liver damage / Pablo Muriel -- Application of short- and long-term hepatocyte cultures to predict toxicities / Gregor Tuschl ... [et al.] -- Biomarkers of mycotoxin exposure in liver toxicity / Angela J. Harris -- Mechanisms of toxic liver injury / Nora Anderson and Jurgen Borlak -- A role of cytochrome P450 in quinone-induced hepatotoxicity / Yasuhiro Ishihara and Norio Shimamoto -- A mechanistic view of troglitazone hepatotoxicity / Rawiwan Maniratanachote and Tsuyoshi Yokoi -- Role of the Kupffer cell in hepatotoxicity and hepatocarcinogenesis / James E. Klaunig ... [et al.] -- Sinusoidal cells in liver injury and repair / Carol C. Gardner and Debra L. Laskin -- Cytokines in liver diseases / Pablo Muriel -- Bile acids as modulators of apoptosis / Rui E. Castro ... [et al.] --

Drug-induced intrahepatic cholestasis by interaction with the hepatic bile salt export pump (BSEP) / Christoph Funk ... [et al.] -- Application of toxicogenomics in predicting hepatotoxicity: potentials and challenges / Wen Lin ... [et al.] -- Genomic profiling of liver injury / Kevin Gerrish and David E. Malarkey -- Use of DNA arrays in understanding hepatic test systems / Angela J. Harris and Daniel A. Casciano -- Prediction of hepatotoxicity based on the toxicogenomics database / Tetsuro Urushidani -- Relationship between N-acetyltransferase-2 gene polymorphism and isoniazid-induced hepatotoxicity / Yasuo Shimazu, Kunio Dobashi, and Masatomo Mori -- Human and animal-based differences in hepatic xenobiotic metabolism and toxicity / Peter J. O'Brien, Katie Chan, and Raymond J. Poon -- Hepatotoxicity in oncology drug development / Wei Chen, Kenneth Hastings, and John K. Leighton -- The potent rat hepatocarcinogen methapyrilene: an hypothesis regarding its hepatotoxicology / Daniel A. Casciano -- Botanical supplements and hepatotoxicity / Shabana Khan, Ikhlas Khan, and Larry Walker -- Physiologically based pharmokinetic modeling and risk assessment of hepatotoxicants / Kannan Krishnan.

Sommario/riassunto

This book addresses all the current, up-to-date developments in this scientific discipline. Liver is the chief metabolizing site in the body, and thus, it is a major target organ for drug and chemical toxicity. Therefore, hepatotoxicity is an important endpoint in the safety evaluation of drugs and chemicals. Contributions from leading investigators in hepatotoxicity research address current developments in this scientific discipline and discuss use of current cutting edge technology such as microarrays in hepatotoxicity thus providing a better understanding of hepatotoxins, their interactio