Recent advances in diagnostic and therapeutic approaches to liver disease have carried hepatology to new frontiers. The increasing frequency with which steatotic and cirrhotic livers undergo complex curative treatment strategies is a challenge to liver surgeons and hepatologists, who need to understand the molecular mechanisms at play in these situations. Comprehension of the signaling pathways participating in liver regeneration, hepatocellular apoptosis, and ischemia/reperfusion injury is essential. This book serves as a source of information to facilitate the reading of the literature and the planning of trials. Translational medicine implies knowledge of the molecular targets of novel therapeutic strategies. It is our goal to stimulate research that leads to exchanges between the laboratory, the clinical ward, and the operating room. Such a comprehensive insight including molecular and cellular events will pave the way for improvement of pharmacological and surgical interventions in complex liver disease.

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