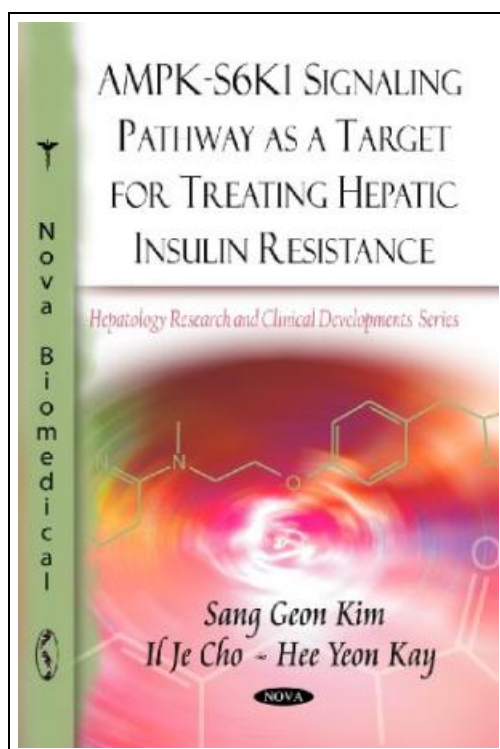


## AMPK-S6K1 Signaling Pathway as a Target for Treating Hepatic Insulin Resistance



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## AMPK-S6K1 SIGNALING PATHWAY AS A TARGET FOR TREATING HEPATIC INSULIN RESISTANCE

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Nova Science Publishers Inc. Paperback. Book Condition: new. BRAND NEW, AMPK-S6K1 Signaling Pathway as a Target for Treating Hepatic Insulin Resistance, Sang Geon Kim, Je Cho, Hee Yeon Kay, Hepatic insulin resistance and altered insulin metabolism, as characterised by the desensitisation of hepatic parenchymal cells to insulin, play a role in the pathogenesis of liver disease, particularly resulting in steatosis and steatohepatitis. By the same token, type II diabetic patients are at higher risk for developing liver diseases, including steatosis, hepatitis, cirrhosis, and hepatocellular carcinoma. On the other hand, established liver disease from any cause leads to glucose intolerance and peripheral insulin resistance systemically. The link between insulin resistance and liver pathology reviewed in this book suggests that insulin resistance is closely related with a variety of liver diseases. Recent evidence indicates that the AMP activating protein kinase (AMPK) in conjunction with p70 ribosomal S6 kinase 1 (S6K1) serves as a key signalling pathway regulating insulin-dependent physiological functions; thus, this pathway serves as a target for the therapy of diseases associated with insulin resistance. In this chapter, the regulatory role of the AMPK-S6K1 pathway is discussed in terms of enhancing insulin receptor signalling with insulin receptor substrate-1/2 and phosphatidylinositol phosphate kinase activity, which may contribute to preventing and/or treating insulin resistance in the liver.

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