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Name of Journal: *World Journal of Gastroenterology*

Manuscript NO: 39865

Manuscript Type: REVIEW

**p21-activated kinase signalling in pancreatic cancer: New insights into tumour biology and immune modulation**

Kai Wang, Graham S Baldwin, Mehrdad Nikfarjam, Hong He

**Abstract**

Pancreatic cancer is one of the most aggressive and lethal malignancies worldwide, with a very poor prognosis and a five-year survival rate less than 8%. This dismal outcome is largely due to delayed diagnosis, early distant dissemination and resistance to conventional chemo-therapies. Kras mutation is a well-defined hallmark of pancreatic cancer, with over 95% of cases harbouring Kras mutations that give rise to constitutively active forms of Kras. As important down-stream effectors of Kras, p21-activated kinases (PAKs) are involved in regulating cell



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