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Name of Journal: *World Journal of Gastrointestinal Pathophysiology*

Manuscript NO: 40308

Manuscript Type: REVIEW

Acinar cell injury induced by inadequate unfolded protein response in acute pancreatitis

Barrera K *et al.* Inadequate UPR induces AP injury

Kaylene Barrera, Albert Stanek, Kei Okochi, Zuzanna Niewiadomska, Cathy Mueller, Peiqi Ou, Devon John, Antonio E Alfonso, Scott Tenner, Chongmin Huan

Abstract

Acute pancreatitis (AP) is an inflammatory disorder of pancreatic tissue initiated in injured acinar cells. Severe AP remains a significant challenge due to the lack of effective treatment. The widely accepted autodigestion theory of AP is now facing challenges since inhibiting the activation of proteases has negligible effectiveness for AP



Acinar cell injury induced by inadequate unfolded protein response in acute p



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HP Harding, H Zeng, Y Zhang, R Jungries, P Chung... - Molecular cell, 2001 - Elsevier

... (A) Anti-PERK immunostaining of paraffin-embedded sections of pancreatic acini (upper panels ... arrows point to the basolateral distribution of PERK immunoreactivity in the cells of the acinus ... In the acinar cells, dilation, accumulation of electron-dense material in the lumen, and ...

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