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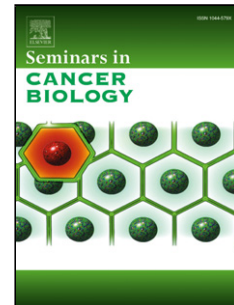
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The Emerging Roles of F-box Proteins in Pancreatic Tumorigenesis

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Abstract

The role of F-box proteins in pancreatic tumorigenesis is emerging owing to their pivotal and indispensable roles in cell differentiation, cell cycle regulation and proliferation. In this Review, we will focus on β -TrCP (β -transducin repeat-containing protein) and two other prototypical mammalian F-box proteins, Fbxw7 and Fbxw8, in pancreatic tumorigenesis and progression. We will highlight the functions and regulation of these F-box proteins, their respective substrates and cross-talks with other key signaling pathways, such as the Ras-Raf-Mek-Erk, Hedgehog, NF κ B, TGF- β , Myc and HPK1 signaling pathways etc. in pancreatic cancer.

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