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Unraveling Pancreatic Cancer: Pathogenesis, Development, Diagnostic and Treatment

Guest Editor:

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closed (31 July 2020)

Message from the Guest Editor

Dear Colleagues,

Pancreatic cancer is, worldwide, the 6th most frequent cause of cancer death. Of all cancers it has the most abysmal five-year survival rate. This is due to a lack of sufficiently early detection methods and the fact that, if detected, the cancer has already spread. Analyzing the common genetic changes demonstrate a rather monotone set of mutations, typically in KRAS, SMAD4, TP53 and CDKN2A. This has resulted in a resurrection of the importance of an understanding of epigenetic changes and has led to the introduction of pancreatic cancer subtypes, which might need different treatment approaches. With the advent of organoid culture methods, pre-testing for chemo resistance might be feasible to adjust therapeutic regimens and can be used to establish new genetic signatures for resistance. Together with improved immunooncology approaches, this knowledge of molecular changes in pancreatic cancer might considerably improve survival rates. Looking forward, the area of improvement is vast and, within this Special Issue, we would like to show novel concepts for the diagnosis and treatment of pancreatic cancer based on new molecular biology insights.



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Special Issue



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Message from the Editor-in-Chief

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