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2015 Advances in Pancreatic cancer

8

MicroRNA in pancreatic ductal adenocarcinoma and its precursor lesions

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## Abstract

1

Pancreatic ductal adenocarcinoma (PDAC) is the 4<sup>th</sup> deadliest cancer in the United States, due to its aggressive nature, late detection, and resistance to chemotherapy. The majority of PDAC develops from 3 precursor lesions, Pancreatic Intraepithelial lesions (PanIN), Intraductal Papillary Mucinous Neoplasm (IPMN), and Mucinous Cystic Neoplasm (MCN). Early detection and surgical resection can increase PDAC 5-year survival rate from 6% for Stage IV to 50% for Stage I. To date, there are no reliable biomarkers that can detect PDAC. MiRNAs (miRNA) are small noncoding RNAs (18-25 nucleotides) that regulate gene expression by affecting translation of messenger RNA (mRNA). A large body of evidence suggests that miRNAs are dysregulated in various types of cancers. MiRNA has been profiled as a potential biomarker in pancreatic tumor tissues, blood, sputum, stool, and urine. Four miRNA biomarkers, miR-21, miR-

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