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Aim:To evaluate if methylation changes in the differentially methylated promoters in the GNASlocuscould contribute to mucinous differen- tiation and/or malignant progression of pancreatic cysts (PCs).

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Multiple differentially methylated regions (DMR) are present within the GNAS locus, encompassing the promoters of the different transcripts. DNA methylation is a mechanism regulating gene expression, and this epigenetic modification often leads to or associated with repressed promoter activity in an allele specific manner [].As in many other genomic loci, the GNAS promoter located in the ...

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the expected **GNAS** upregulation, suggests a role for **hypermethylation** at the **GNAS** locus in **malignant progression** of PCs. Conclusion: This is the first study to identify **methylation changes** in the **GNAS** locus associated with mucinous PCs and especially with **malignant lesions**.  
Hypermethylation in both NESP55 and GNASXL identified PCs harbouring advanced

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Publish Year: 2015

[Molecular pathology of intraductal papillary mucinous ...](#)

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Aug 07, 2014 · An **important** aspect for the differential **diagnosis** of **pancreatic cystic** lesions is that **GNAS** mutations were not found in **cystic neoplasms** other than IPMN or in invasive adenocarcinomas not associated with IPMN. The prevalence of **GNAS** mutations is higher in more advanced lesions, from 19% in low-grade dysplasia, to 23% in intermediate grade and ...

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**METHYLATION CHANGES AT THE GNAS IMPRINTED LOCUS IN PANCREATIC CYSTIC NEOPLASMS: ROLE IN THE DIAGNOSIS OF MUCINOUS AND MALIGNANT CYSTS?** Sandra Faias, Marlene Duarte, Marília Cravo, Paula Chaves, António Dias Pereira, Cristina Albuquerque  
Background: **GNAS** mutation is a frequent finding in intraductal papillary mucinous **neo-plasms** ...