

35

Name of Journal: World Journal of Gastrointestinal Oncology

ESPS Manuscript NO: 20751

Manuscript Type: MINIREVIEWS

1
Role of histone deacetylases in pancreas: Implications for pathogenesis and therapy

Eckhard Klieser, Stefan Swierczynski, Christian Mayr, Johanna Schmidt, Daniel Neureiter, Tobias Kiesslich, Romana Illig

Abstract

In the last years, our knowledge of the pathogenesis in acute and chronic pancreatitis (AP/CP) as well as in pancreatic cancerogenesis has significantly diversified. Nevertheless, the medicinal therapeutic options are still limited and therapeutic success and patient outcome are poor. Epigenetic deregulation of gene expression is known to contribute to development and progression of AP and CP as well as of pancreatic cancer (PC). Therefore, the selective inhibition of aberrantly active epigenetic regulators can be an effective option for future therapies. Histone deacetylases (HDACs) are enzymes that remove an acetyl group from histone tails, thereby causing chromatin compaction and repression of transcription. In this review we present an overview of the currently available literature addressing the role of HDACs in the pancreas and in pancreatic diseases. In pancreatic cancerogenesis, HDACs play a role in the important process of epithelial-mesenchymal-transition.

Match Overview

1	Internet 145 words crawled on 20-Aug-2014 intranet.mcri.edu.au	2%
2	Internet 54 words crawled on 11-Dec-2013 www.ncbi.nlm.nih.gov	1%
3	CrossCheck 52 words Kanika, Gayathri, Sabbir Khan, and Gopabandhu Jena. "Sodium Butyrate Ameliorates L-Arginine-Induced Pancreatitis"	1%
4	Publications 51 words "New Pancreatic Cancer Research from University of Montpellier Outlined (Report)", Biotech Week, May 23 2012 Issue	1%
5	Internet 34 words crawled on 17-Feb-2015 www.science.gov	<1%
6	CrossCheck 30 words Ouaïssi, Mehdi, Françoise Silvy, Céline Loncle, Diva Ferraz da Silva, Carla Martins Abreu, Emmanuelle Martinez, Pat	<1%

CrossCheck 20 words



The role of histone deacetylases in pancreas? Implications for pathogen



网页

新闻

图片

视频

更多 ▾

搜索工具

找到约 382,000 条结果 (用时 0.71 秒)

Google 学术: The role of histone deacetylases in pancreas? Implications for pathogenesis and therapy.

Histone deacetylase as a therapeutic target - Krämer - 被引用次数: 278

... in human disease and prospects for epigenetic therapy - Egger - 被引用次数: 2002

Valproic acid defines a novel class of HDAC inhibitors ... - Göttlicher - 被引用次数: 1248

Epigenetics and pancreatic cancer: Pathophysiology and ...

www.ncbi.nlm.nih.gov > ... > PubMed Central (PMC) ▾ 翻译此页

作者: D Neureiter - 2014 - 被引用次数: 7 - 相关文章

2014年6月28日 - An improvement in pancreatic cancer treatment represents an urgent medical goal. ... and review the implications on pancreatic cancer biology such as ...

Detailed analysis of the function of these epigenetically deregulated genes ... The reverse reaction is mediated by histone deacetylases (HDACs) which ...

(HDAC) Inhibition as a Novel Treatment for Diabetes Mellitus

www.ncbi.nlm.nih.gov > ... > PubMed Central (PMC) ▾ 翻译此页

作者: DP Christensen - 2011 - 被引用次数: 85 - 相关文章

2011年1月25日 - Both common forms of diabetes have an inflammatory pathogenesis in ... This effect was reversed by HDAC inhibition in the neonatal animal but ... Overview of the roles of HDACs in pancreatic endocrine cell development. ... Molecular evolution of the histone deacetylase family: functional implications of ...

Histone deacetylases and their inhibitors: molecular ...

www.sciencedirect.com/science/article/.../S2211383512000895 ▾ 翻译此页

作者: X Wang - 2012 - 被引用次数: 13 - 相关文章





Role of histone deacetylases in pancreas: Implications for pathogenesis and



网页

新闻

图片

视频

更多

搜索工具

找到约 202,000 条结果 (用时 0.57 秒)

Google 学术: Role of histone deacetylases in pancreas: Implications for pathogenesis and therapy

Histone deacetylase as a therapeutic target - Krämer - 被引用次数: 280

... in human disease and prospects for epigenetic therapy - Egger - 被引用次数: 2071

Valproic acid defines a novel class of HDAC inhibitors ... - Göttlicher - 被引用次数: 1280

(HDAC) Inhibition as a Novel Treatment for Diabetes Mellitus

www.ncbi.nlm.nih.gov > ... > PubMed Central (PMC) > 翻译此页

作者: DP Christensen - 2011 - 被引用次数: 92 - 相关文章

2011年1月25日 - Both common forms of diabetes have an inflammatory pathogenesis in ... This effect was reversed by HDAC inhibition in the neonatal animal but ... Overview of the roles of HDACs in pancreatic endocrine cell development. ... Molecular evolution of the histone deacetylase family: functional implications of ...

Histone deacetylases and their inhibitors: molecular ...

www.sciencedirect.com/science/article/.../S2211383512000895 > 翻译此页

作者: X Wang - 2012 - 被引用次数: 13 - 相关文章

2012年7月15日 - Among them, histone deacetylases (HDACs) are enzymes that balance ... This review highlights the role of HDACs in diabetes mellitus and ... and the therapeutic potential of HDAC inhibitors for the treatment of diabetes mellitus. ... dehydrogenase and, in turn, inhibits insulin secretion in pancreatic β -cells.

Epigenetics and pancreatic cancer: Pathophysiology and ...

www.ncbi.nlm.nih.gov > ... > PubMed Central (PMC) > 翻译此页

作者: D Neureiter - 2014 - 被引用次数: 10 - 相关文章

[网页](#)[新闻](#)[图片](#)[视频](#)[更多 ▾](#)[搜索工具](#)

找到约 398,000 条结果 (用时 0.48 秒)

Google 学术: Role of histone deacetylases in pancreas: Implications for pathogenesis and therapy

Histone deacetylase as a therapeutic target - Krämer - 被引用次数: 281

... in human disease and prospects for epigenetic therapy - Egger - 被引用次数: 2080

Valproic acid defines a novel class of HDAC inhibitors ... - Göttlicher - 被引用次数: 1281

Histone deacetylases and their inhibitors: molecular ...

www.sciencedirect.com/science/article/.../S2211383512000895 ▾ 翻译此页

作者: X Wang - 2012 - 被引用次数: 13 - 相关文章

2012年7月15日 - Among them, histone deacetylases (HDACs) are enzymes that balance ... This review highlights the role of HDACs in diabetes mellitus and ... and the therapeutic potential of HDAC inhibitors for the treatment of diabetes mellitus. ... dehydrogenase and, in turn, inhibits insulin secretion in pancreatic β -cells.

Histone Deacetylase (HDAC) Inhibition as a Novel ...

www.ncbi.nlm.nih.gov > ... > PubMed Central (PMC) ▾ 翻译此页

作者: DP Christensen - 2011 - 被引用次数: 92 - 相关文章

2011年1月25日 - Histone Deacetylase (HDAC) Inhibition as a Novel Treatment for Diabetes Mellitus for an important role of IL-1 β in the pathogenesis of T2D as well, ... Model of changes in acetylation levels in pancreatic β cells of IUGR. Molecular evolution of the histone deacetylase family: functional implications of ...

Epigenetics and pancreatic cancer: Pathophysiology and ...

www.ncbi.nlm.nih.gov > ... > PubMed Central (PMC) ▾ 翻译此页

作者: D Neureiter - 2014 - 被引用次数: 11 - 相关文章

2014年6月28日 - An improvement in pancreatic cancer treatment represents an urgent medical goal ... and review the implications on pancreatic cancer biology such as