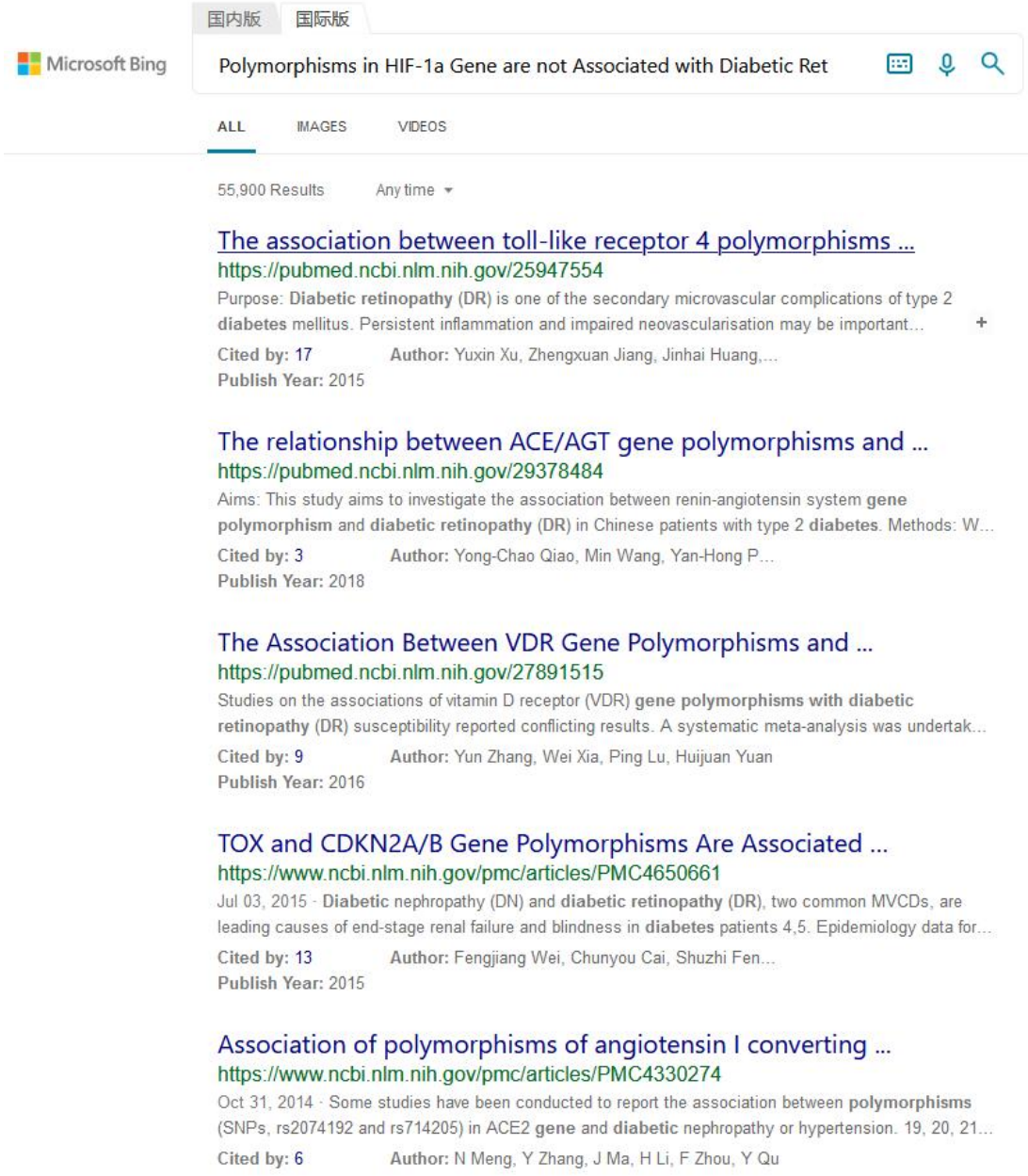
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Polymorphisms in HIF-1a Gene are not Associated with Diabetic Ret
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The association between toll-like receptor 4 polymorphisms ...
https://pubmed.ncbi.nlm.nih.gov/25947554
Purpose: Diabetic retinopathy (DR) is one of the secondary microvascular complications of type 2 diabetes mellitus. Persistent inflammation and impaired neovascularisation may be important...
Cited by: 17
Author: Yuxin Xu, Zhengxuan Jiang, Jinhai Huang,...
Publish Year: 2015
The relationship between ACE/AGT gene polymorphisms and ...
https://pubmed.ncbi.nlm.nih.gov/29378484
Aims: This study aims to investigate the association between renin-angiotensin system gene polymorphism and diabetic retinopathy (DR) in Chinese patients with type 2 diabetes. Methods: W...
Cited by: 3
Author: Yong-Chao Qiao, Min Wang, Yan-Hong P...
Publish Year: 2018
The Association Between VDR Gene Polymorphisms and ...
https://pubmed.ncbi.nlm.nih.gov/27891515
Studies on the associations of vitamin D receptor (VDR) gene polymorphisms with diabetic retinopathy (DR) susceptibility reported conflicting results. A systematic meta-analysis was undertak...
Cited by: 9
Author: Yun Zhang, Wei Xia, Ping Lu, Huijuan Yuan
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TOX and CDKN2A/B Gene Polymorphisms Are Associated ...
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Jul 03, 2015 · Diabetic nephropathy (DN) and diabetic retinopathy (DR), two common MVCDs, are leading causes of end-stage renal failure and blindness in diabetes patients 4,5. Epidemiology data for...
Cited by: 13
Author: Fengjiang Wei, Chunyou Cai, Shuzhi Fen...
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Association of polymorphisms of angiotensin I converting ...
https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4330274
Oct 31, 2014 · Some studies have been conducted to report the association between polymorphisms (SNPs, rs2074192 and rs714205) in ACE2 gene and diabetic nephropathy or hypertension. 19, 20, 21...
Cited by: 6
Author: N Meng, Y Zhang, J Ma, H Li, F Zhou, Y Qu

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Conclusions: The ACE and AGT **gene polymorphisms are not associated** with the progress of **diabetes** developing into **retinopathy** in Chinese patients with type 2 **diabetes**. However, more investigations are needed to further prove the association. Keywords: ACE; AGT; T2DM; **diabetic retinopathy**; rennin-angiotensin system.

Cited by: 3 **Author:** Yong-Chao Qiao, Min Wang, Yan-Hong Pan,...
Publish Year: 2018

Protective Effect of the HIF-1A Pro582Ser Polymorphism on ...

https://europepmc.org/article/PMC/PMC6535890

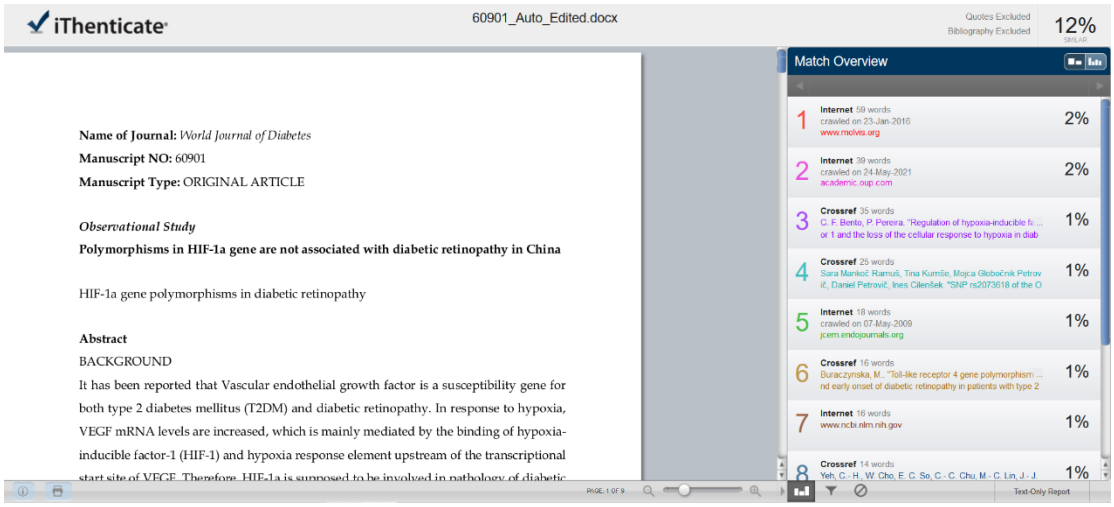
May 12, 2019 · 3.1. Genetic Association of the **HIF-1A** Pro582Ser **Polymorphism** and **Diabetic Retinopathy**. Of the 703 patients with type 1 **diabetes** participating in the analysis, 148 (21%) had no sign of DR, 373 (53%) had mild or moderate NPDR, and 182 (26%) had severe NPDR or PDR. Patients' characteristics are shown in Table 1.

Association between eNOS 4b/a Polymorphism and the Risk of ...

https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4033540

May 08, 2014 · The **polymorphism** of eNOS-4b/a **gene** has been **associated** with many vascular diseases including hypertension, **diabetic retinopathy**, and **diabetic** nephropathy in various populations [29, 30]. Variable results have been reported for the association of eNOS-4b/a **polymorphism** with DR [...

Cited by: 16 **Author:** Ze-jun Ma, Rui Chen, Hui-Zhu Ren, Xin Guo, ...
Publish Year: 2014



Name of Journal: *World Journal of Diabetes*
Manuscript NO: 60901
Manuscript Type: ORIGINAL ARTICLE

Observational Study

Polymorphisms in HIF-1a gene are not associated with diabetic retinopathy in China

HIF-1a gene polymorphisms in diabetic retinopathy

Abstract

BACKGROUND

It has been reported that Vascular endothelial growth factor is a susceptibility gene for both type 2 diabetes mellitus (T2DM) and diabetic retinopathy. In response to hypoxia, VEGF mRNA levels are increased, which is mainly mediated by the binding of hypoxia-inducible factor-1 (HIF-1) and hypoxia response element upstream of the transcriptional start site of VEGF. Therefore, HIF-1a is supposed to be involved in pathology of diabetic

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IGF1 gene polymorphisms associated with diabetic ...

https://www.ncbi.nlm.nih.gov/pubmed/29152139

Sep 28, 2017 · Objective: This study aimed to explore the association of insulin-like growth factor 1 **gene** (IGF1) **polymorphisms with diabetic retinopathy** (DR) in a Chinese Han population. Methods: Polymerase chain reaction-restriction fragment length **polymorphism** (PCR-RFLP) was used for genotyping. Genotype frequencies were compared by chi-square test.

Cited by: 6 **Author:** Jian Zhang, Xiao Chen, Like Zhang, Yi Peng
Publish Year: 2017

Protective Effect of the HIF-1A Pro582Ser Polymorphism on ...

https://europepmc.org/article/PMC/PMC6535890

May 12, 2019 · 3.1. Genetic Association of the **HIF-1A** Pro582Ser **Polymorphism** and **Diabetic Retinopathy**. Of the 703 patients with type 1 **diabetes** participating in the analysis, 148 (21%) had no sign of DR, 373 (53%) had mild or moderate NPDR, and 182 (26%) had severe NPDR or PDR. Patients' characteristics are shown in Table 1.

The relationship between ACE/AGT gene polymorphisms and ...

https://pubmed.ncbi.nlm.nih.gov/29378484

Conclusions: The ACE and AGT **gene polymorphisms are not associated** with the progress of **diabetes** developing into **retinopathy** in Chinese patients with type 2 **diabetes**. However, more investigations are needed to further prove the association. Keywords: ACE; AGT; T2DM; **diabetic retinopathy**; rennin-angiotensin system.

Cited by: 3 **Author:** Yong-Chao Qiao, Min Wang, Yan-Hong P...
Publish Year: 2018

Protective Effect of the HIF-1A Pro582Ser Polymorphism on ...

https://www.hindawi.com/journals/jdr/2019/2936962

Objective . Hypoxia is central in the pathogenesis of **diabetic retinopathy** (DR). Hypoxia-inducible factor-1 (HIF-1) is the key mediator in cellular oxygen homeostasis that facilitates the adaptation to hypoxia. HIF-1 is repressed by hyperglycemia contributing by this to the development of complications in **diabetes**. Recent work has shown that the **HIF-1A** Pro582Ser **polymorphism** is more ...

Cited by: 11 **Author:** Neda Rajamand Ekberg, Sofie Eliasson, ...
Publish Year: 2019