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www.ncbi.nlm.nih.gov › ... › [Int J Med Sci](#) › v.11(11); 2014

Sep 06, 2014 · In China, the latest statistical data show that **diabetes** and **pre-diabetes** are prevalent among people older than **20-year-old**, with the percentages being 9.7% and 15.5% for T1DM and T2DM, respectively . T2DM mostly results from the interaction among **genetic**...

Cited by: 114

Author: Yanling Wu, Yanping Ding, Yoshimasa Ta...

Publish Year: 2014

Pharmacogenetics in type 2 diabetes: potential ...

<https://genomemedicine.biomedcentral.com/articles/10.1186/gm292> ▾

Nov 29, 2011 · Pharmacogenetics, pharmacogenomics and **diabetes**. Whether pharmacogenetics will have an analogous **impact** on common **type 2 diabetes** (T2D), the subject of this review, remains to be seen. T2D is one of the leading **causes** of **cardiovascular disease**, **microvascular complications** and **death** in the USA and worldwide.

Cited by: 20

Author: Chunmei Huang, Jose Carlos Florez

Publish Year: 2011

Next-Generation Sequencing in Molecular Diagnostics

https://www.medscape.com/viewarticle/740460_4 ▾

Sequencing of **Cancer Genomes**. The **recent advances** in next-generation DNA sequencing technologies have made it possible to sequence a large number of entire **cancer genomes** and allowed **researchers** to systematically characterize human **cancer genomes** at the genomic, transcriptomic and epigenetic levels.

Genetic and environmental factors associated with type 2 ...

www.ncbi.nlm.nih.gov › ... › [Rev Diabet Stud](#) › v.9(1); Spring 2012

Name of Journal: *World Journal of Diabetes*

Manuscript NO: 46683

Manuscript Type: REVIEW

Recent advances and perspectives in next generation sequencing application to the genetic research of type 2 diabetes

Yulia A Nasykhova, Yury A Barbitoff, Elena A Serebryakova, Dmitry S Katserov,
Andrey S Glotov

Abstract

Type 2 diabetes (T2D) mellitus is a common complex disease that currently affects more than 400 million people worldwide and has become a global health problem. High

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Cracking the Code of Human Diseases Using Next ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4668301>

Next-generation sequencing (NGS) technologies have greatly impacted on every field of molecular research mainly because they reduce costs and increase throughput of **DNA sequencing**. These features, together with the technology's flexibility, have opened the way to a variety of **applications** including the **study** of the molecular basis of human diseases.

Cited by: 20

Author: Vincenza Precone, Valentina Del Monaco, ...

Publish Year: 2015

Advancements in Next-Generation Sequencing | Annual ...

<https://www.annualreviews.org/doi/full/10.1146/annurev-genom-083115-022413>



INTRODUCTION

SEQUENCING PLATFORMS ...

SHORT- AND LONG-RE



Since the fundamental discovery of the structure of DNA (128) and the pioneering development of methods to detect the sequence of DNA bases by foundational approaches such as Maxam & Gilbert's technique (76) and Sanger sequencing (106), the field of DNA sequencing has rapidly evolved in capacity, capability, and applications. As with many technologies, advances across multiple fields were brought together to achieve routine sequencing at the genome scale. The development of the polymera...

See more on [annualreviews.org](https://www.annualreviews.org)

Trends in Next-Generation Sequencing and a New Era for ...

https://www.researchgate.net/publication/311104918_Trends_in_Next-Generation...

ed that South Asians have a higher risk o **f type-2 diabetes** and multiple samples to separate laboratories. **Advances in next-generation sequencing** (NGS) have provided the opportunity for ...

Recent advances in epilepsy genetics - ScienceDirect

<https://www.sciencedirect.com/science/article/pii/S0304394017304020>

Over the last few years, it has been replaced by the **next-generation sequencing (NGS)** that allows the **sequencing of several genes**, quickly and cost effectively and has facilitated **genetic research** on **epilepsy** in the past few years.