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Case Control Study

Impact of *mTOR* gene polymorphisms and gene-tea interaction on susceptibility to tuberculosis

Mian Wang, Shu-Juan Ma, Xin-Yin Wu, Xian Zhang, Julius Abesig, Zheng-Hui Xiao, Xin Huang, Hai-Peng Yan, Jing Wang, Meng-Shi Chen, Hong-Zhuan Tan

Abstract

BACKGROUND

mTOR gene is a key component of the PI3K/Akt/mTOR signaling pathway, and its

Match Overview

1	Crossref 44 words Qiaoxin Li, Chengyuan Gu, Yao Zhu, Mengyun Wang et al. "Polymorphisms in the mTOR Gene and Risk of Sporadic..."	1%
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<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3412843>

Recent data suggest that autophagy is important for intracellular killing of *Mycobacterium tuberculosis*, and polymorphisms in the autophagy gene IRGM have been linked with susceptibility to tuberculosis (TB) among African-Americans, and with TB caused by particular *M. tuberculosis* genotypes in Ghana. We compared 22 polymorphisms of 14 autophagy genes between 1022 Indonesian TB patients and ...

Cited by: 56

Author: Mario Songane, Johanneke Kleinnijenhuis...

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(PDF) Polymorphisms in Autophagy Genes and Susceptibility ...

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We compared 22 polymorphisms of 14 autophagy genes between 1022 Indonesian TB patients and 952 matched controls, and between patients infected with different *M. tuberculosis* genotypes, as ...

Autophagy in Tuberculosis

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4208715>

In keeping with the above role of calcitriol in autophagy, human genetic polymorphisms in the gene encoding vitamin D receptor are associated with susceptibility to tuberculosis when combined with low serum levels of calcitriol, a precursor to calcitriol (Wilkinson et al. 2000). There are further genetic links between autophagy and risks for ...

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Author: Vojo Deretic

Publish Year: 2014

Human ULK1 Variation and Susceptibility to *Mycobacterium* ...

<https://academic.oup.com/jid/article/214/8/1260/2388112> ▾

Aug 02, 2016 · We enrolled close contacts of tuberculosis cases through a US tuberculosis program to examine whether variation in autophagy genes is associated with susceptibility to *M. tuberculosis* infection. To our knowledge, this is the first reported association of a ULK1 single-nucleotide polymorphism (SNP) with a tuberculosis-related outcome.

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Author: David J. Home, Andrew D. Graustein, Jav...

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[Impact of MBL and MASP-2 gene polymorphism and its ...](#)

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4399571>

Results. Both genotype GC at rs7096206 of MBL **genes** and genotype TC at rs2273346 and rs6695096 of MASP-2 **genes** were more prevalent in the TB patient group than the healthy control group ($P < 0.05$, OR 1.393, 1.302 and 1.426 respectively). The relative excess risk of **interaction** (RERI) between rs7096206 of MBL **genes** and rs2273346 and rs6695096 of MASP-2 **genes** was 0.897 (95% CI: 0.282, 1.513) and ...

Cited by: 20

Author: Mengshi Chen, Mengshi Chen, Ying Liang, ...

Publish Year: 2015

[\(PDF\) Polymorphisms in Autophagy Genes and Susceptibility ...](#)

<https://www.researchgate.net/publication/230645931...>

We compared 22 **polymorphisms** of 14 autophagy **genes** between 1022 Indonesian TB patients and 952 matched controls, and between patients infected with different *M. tuberculosis* genotypes, as ...

[\[PDF\] RESEARCH ARTICLE Open Access Impact of MBL and MASP ...](#)

<https://core.ac.uk/download/pdf/81850179.pdf>

Conclusion: **Polymorphisms** of MBL (rs7096206) and MASP-2 (rs2273346 and rs6695096) were associated with the **susceptibility** of TB, and there were **gene-gene interactions** among them. Keywords: **Tuberculosis**, MBL, MASP-2, **Gene**, **Interaction**, RERI Background **Tuberculosis** (TB) is a global public health issue posing serious harm to human health.

[The impact of human single nucleotide polymorphisms on ...](#)

<https://www.sciencedirect.com/science/article/pii/S0264410X20309506>

Aug 18, 2020 · The influence of genetic variability on human immune responses has major implications for the understanding of disease mechanisms and host-pathogen in...

[Human ULK1 Variation and Susceptibility to Mycobacterium ...](#)

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Polymorphisms in Autophagy Genes and Susceptibility to ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3412843>

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Author: Mario Songane, Johanneke Kleinnijenhui...

Publish Year: 2012

Harnessing the mTOR Pathway for Tuberculosis Treatment

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5797605>

Jan 30, 2018 · Introduction. **Tuberculosis** (TB) is one of the leading killer among infectious diseases of humans, accounting for about 10.4 million new cases and 1.8 million deaths in 2015 (World Health Organization, 2016). The global burden of TB has also been exacerbated by other co-morbid conditions, including diabetes and HIV-infection, and TB is a leading cause of mortality among HIV infected ...

Cited by: 14

Author: Pooja Singh, Selvakumar Subbian

Publish Year: 2018

Impact of MBL and MASP-2 gene polymorphism and its ...

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Results. Both genotype GC at rs7096206 of MBL **genes** and genotype TC at rs2273346 and rs6695096 of MASP-2 **genes** were more prevalent in the TB patient group than the healthy control group ($P < 0.05$, OR 1.393, 1.302 and 1.426 respectively). The relative excess risk of **interaction** (RERI) between rs7096206 of MBL **genes** and rs2273346 and rs6695096 of MASP-2 **genes** was 0.897 (95% CI: ...

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The impact of human single nucleotide polymorphisms on