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**Manuscript NO:** 54433

**Manuscript Type:** ORIGINAL ARTICLE

### Basic Study

**Genetic association analysis of *CLEC5A* and *CLEC7A* gene single-nucleotide polymorphisms and Crohn's disease**

### Abstract

#### BACKGROUND

Crohn's disease (CD) is characterized by a multifactorial etiology and a significant impact of genetic traits. While *NOD2* mutations represent well established risk factors of CD, the role of other genes is incompletely understood.

#### AIM

To challenge the hypothesis that single nucleotide polymorphisms (SNPs) in the genes *CLEC5A* and *CLEC7A*, two members of the C-type lectin domain family of pattern recognition receptors, may be associated with CD.

#### METHODS

SNPs in *CLEC5A*, *CLEC7A* and the known CD risk gene *NOD2* were studied using real time PCR-based SNP assays. Therefore, DNA samples from 175 patients and 157 healthy donors were employed. Genotyping data were correlated with clinical characteristics of the patients and the results of gene expression data analyses.

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We further performed haplotype **analysis of CLEC5A genetic polymorphisms** in the Susceptibility, CAL Formation, and IVIG Treatment of KD Patients by using the Haploview 4.2 program and PHASE version 2.1, respectively. The haplotype **analysis of CLEC5A** still failed to show any significant results with the **disease** activity of KD.

**Cited by:** 1

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Lack of **Association** between **CLEC5A Gene** Single-Nucleotide **Polymorphisms** and Kawasaki **Disease** in Taiwanese Children Ya-Ling Yang , 1 Wei-Pin Chang , 2 Yu-Wen Hsu , 3 Wei-Chiao Chen , 3 Hong-Ren Yu , 4 , 5 Chi-Di Liang , 5 Yao-Ting Tsai , 3 Ying-Hsien Huang , 5 Kuender D. Yang , 6 Ho-Chang Kuo , 4 , 5 and Wei-Chiao Chang 3 , 7

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Publish Year: 2010

Nucleotide-Binding Oligomerization Domain 2 (NOD2) has been reported to be a candidate gene for Mycobacterium avium subsp. paratuberculosis (MAP) infection in a Bos taurus × Bos indicus mixed breed based on a genetic association with the c.2197T>C single nucleotide polymorphism (SNP). Nevertheless, this SNP has also been reported to be monomorphic in the B. taurus species.

<https://onlinelibrary.wiley.com/doi/full/10.1111/j.1365-2052.2010.02055.x>

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Genetic association analysis of CLEC5a and CLEC7a Gene Single-Nucleotide Polymorphisms and Crohn's Disease. Elleisy N, Rohde S, Huth A, Gittel N, Glass A, Möller S, Lamprecht G, Schäffler H, Jaster R. World Journal of Gastroenterology. Acc.

<https://www.cfb.uni-rostock.de/forschung/publikationen>

### Genetic association of polymorphisms in bovine TLR2 ... [翻译此页](#)

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Author: Satish Kumar, Subodh Kumar, Ran Vir Sin...

Publish Year: 2019

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Lack of **Association** between **CLEC5A Gene** Single-Nucleotide **Polymorphisms** and Kawasaki **Disease** in Taiwanese Children Ya-Ling Yang , 1 Wei-Pin Chang , 2 Yu-Wen Hsu , 3 Wei-Chiao Chen , 3 Hong-Ren Yu , 4 , 5 Chi-Di Liang , 5 Yao-Ting Tsai , 3 Ying-Hsien Huang , 5 Kuender D. Yang , 6 Ho-Chang Kuo , 4 , 5 and Wei-Chiao Chang 3 , 7

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**Publish Year:** 2012

### [Single-nucleotide polymorphisms in CLEC7A , CD209 and TLR4 ...](https://link.springer.com/article/10.1007/s12041-019-1172-4)

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The aim of this study was to identify the single-nucleotide **polymorphisms** (SNPs) in bovine candidate genes **CLEC7A**, CD209 and TLR4, and explore the **association** between these SNPs with the occurrence of bovine paratuberculosis (PTB) **disease**. For this purpose, 549 animals were screened by a panel of four diagnostic tests, namely Johnin PPD test, ELISA test, faecal microscopy and IS900 ...

**Author:** B. Gopi