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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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Author: O. Ruiz-Larranaga, J.M. Garrido, M. Iriond...

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>

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

Publish Year: 2019

2019-3-28 - Ruiz-Larranaga O, Garrido JM, Manzano C, Iriondo M, Molina E, Gil A, Koets AP, Rutten





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Publish Year: 2012

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<https://link.springer.com/article/10.1007/s12041-019-1172-4>

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