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**Novel mechanism of hepatobiliary system damage and immunoglobulin G 4 elevation
caused by clonorchis sinensis infection**

IgG4 elevation by clonorchis sinensis infection

Xin-He Zhang, Die Huang, Yi-Ling Li, Bing Chang

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cause significant morbidity and mortality worldwide. This article provides a selected update on the clinical features, diagnosis, immunology, treatment, and control of infections **caused by Clonorchis sinensis**, Opisthorchis species, Fasciola hepatica, and Paragonimus species. Although recent molecu-lar studies have elucidated **novel mechanisms** of ...

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Innate immune cells, NK, and NKT cells also increased after initiation of **hepatobiliary damage** (Figure 4B). However, NKT cells in the liver are known to be heterogeneous and CD8+ T cells can express NK1...

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Author: James Buxbaum, Peiqing Qian, Ciera Kh...

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Clonorchis Sinensis

Characteristics

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Clonorchis sinensis, the Chinese liver fluke, is a liver fluke belonging to the class Trematoda, phylum Platyhelminthes. It infects fish-eating mammals, including humans. In humans, it infects the common bile duct and gall bladder, feeding on bile. It wa... +

 WikipediaHigher classification: [Opisthorchis](#)

Scientific name: Clonorchis sinensis

Genus: Clonorchis

Family: Opisthorchiidae

Class: Rhabditophora

Order: Plagiorchiida

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Background **Immunoglobulin G4**-related disease (IgG4-RD) is a recently recognized fibro-inflammatory pathology that has been reported to affect principally the retroperitoneum, **hepatobiliary system** ...

[Clonorchis sinensis ferritin heavy chain triggers free ...](#)

<https://link.springer.com/article/10.1007/s00436-014-4230-0> ▾

Nov 22, 2014 · Clonorchiasis, **caused** by direct and continuous contact with **Clonorchis sinensis**, is associated with **hepatobiliary damage**, inflammation, periductal fibrosis, and the development of cholangiocarcinoma. Hepatic stellate cells respond to liver injury through production of proinflammatory mediators which drive fibrogenesis; however, their endogenous sources and pathophysiological roles ...

Cited by: 14

Author: Qiang Mao, Zhizhi Xie, Xiaoyun Wang, Wenj...

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<https://www.sciencedirect.com/science/article/pii/S0891584916303963>

Oct 01, 2016 · **Clonorchis sinensis** is a carcinogenic human liver fluke. Its **infection** promotes persistent oxidative stress and chronic inflammation environments in the bile duct and surrounding liver tissues owing to direct contact with worms and their excretory–secretory products (ESPs), provoking epithelial hyperplasia, periductal fibrosis, and cholangiocarcinogenesis.

Cited by: 12

Author: Jhang Ho Pak, Woo Chan Son, Sang-Beom ...

Publish Year: 2016

[Immune Response to Opisthorchis viverrini Infection and ...](#)