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### Basic Study

**Immune and microRNA responses to *Helicobacter muridarum* infection and indole-3-carbinol during colitis**

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### **Abstract**

#### **BACKGROUND**

Indole-3-carbinol (I3C) and other aryl hydrocarbon receptor agonists are known

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<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5532387>

Jul 28, 2017 · Among these, **inflammatory bowel disease** [IBD, mainly comprising ulcerative **colitis** (UC) and Crohn's Disease (CD)] and allergic asthma are the most relevant. Recent findings point toward potential links **between** these two pathologies, e.g., histamine and mast cell activity and immunoglobulin E (IgE) production, reviewed in Ref. . Both diseases ...

Cited by: 83

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**DSS**-induced acute **colitis** in C57BL/6 mice is mitigated by sulforaphane pre-treatment. ... Aggravation of acute **DSS colitis** in **response** to constitutive Nrf2 expression emphasizes the importance of ...

## Monoassociation of SCID mice with Helicobacter muridarum ...

<https://www.researchgate.net/publication/11384395...>

Monoassociation of SCID mice with **Helicobacter** muridarum, but not four other enterics, provokes **IBD** upon receipt of T cells ... and histopathology **between** control, **H. muridarum-infected**, **DSS**, and ...

## Depletion of dietary aryl hydrocarbon receptor ligands ...

<https://www.nature.com/articles/s41598-019-51194-w>

Oct 11, 2019 · Given the greater susceptibility of mice with low fecal IgA levels to chemically-induced **colitis** 30,54, future work will determine if the AhR ligand-free diet makes mice more susceptible to **DSS**



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### [Helicobacter hepaticus, a new pathogenic species of the ...](#)

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3895553>

**Helicobacter** hepaticus was discovered in 1992 as a cause of liver cancer in the A/JCr mouse model. In susceptible mice, **infection** by *H. hepaticus* causes chronic gastrointestinal inflammation leading to neoplasia. It can also cause morphological changes in breast-glands leading to neoplasm and adenocarcinoma in mouse models.

**Cited by:** 6**Author:** Tahereh Falsafi, Mohaddese Mahboubi**Publish Year:** 2013

### [miRNAs reshape immunity and inflammatory responses in ...](#)

<https://www.nature.com/articles/s41392-018-0006-9>

May 25, 2018 · These results implied that the increase in miR-155 expression **during H. pylori infection** is ... *Chlamydia muridarum* infection in ... M. et al. **MicroRNA** let-7 modulates the **immune response**

...

**Cited by:** 29**Author:** Xikun Zhou, Xuefeng Li, Min Wu**Publish Year:** 2018

### [Enterohepatic Helicobacter Species - Helicobacter pylori ...](#)

<https://www.ncbi.nlm.nih.gov/books/NBK2448>

Most of the members of the genus **Helicobacter** do not normally colonize the gastric mucosa, but instead thrive in the mucosal surfaces of the intestinal tract and/or the liver of humans, other mammals, and birds. These enterohepatic **Helicobacter** species have features of ultrastructure and physiology in common with **Helicobacter** pylori and the other gastric **Helicobacter** species, and have been the ...

**Cited by:** 8**Author:** David B. Schauer**Publish Year:** 2001

### [miRNA regulation of innate immunity - Momen-Heravi - 2018 ...](#)

<https://jlb.onlinelibrary.wiley.com/doi/full/10.1002/JLB.3MIR1117-459R>

Innate **immune response** to **infection** in macrophages consists the upregulation of several miRNAs, such as miR-9, miR-21, and miR-147. 43, 102 These miRNAs act as negative regulators of inflammatory signaling, and are one of the miRNAs that plays a role in the NF-κB circuit. miR-9 inhibits NF-κB subunit