

### Oxidative DNA and RNA damage and their prognostic values ...

<https://www.tandfonline.com/doi/full/10.1080/10715762.2018.1500022>

Nov 13, 2018 · (2018). Oxidative DNA and RNA damage and their prognostic values during Salmonella enteritidis-induced intestinal infection in rats. ...

Cited by: 1 Author: Ji-Hong Hu, Jing-Jing Nie, Zhen-Xiang Ga...

Publish Year: 2018

### Neutrophil Metabolic Shift during Their Lifecycle: Impact ...

<https://www.mdpi.com/1422-0067/21/1/287/htm> ▾

Polymorphonuclear neutrophils (PMNs) are innate immune cells, which represent 50% to 70% of the total circulating leukocytes. How PMNs adapt to various microenvironments encountered during their life cycle, from the bone marrow, to the blood plasma fraction, and to inflamed or infected tissues remains largely unexplored. Metabolic shifts have been reported in other immune cells such as ...

Cited by: 10 Author: Louise Injarabian, Louise Injarabian, Anne...

Publish Year: 2019

### Gut Microbiota and Immune System Interactions. - Abstract ...

<https://europepmc.org/article/PMC/PMC7602490> ▾

Oct 15, 2020 · 1. Gut Microbiota Metabolites (SCFAs) Understanding interactions between a host immune system and the tens of trillions of microbes that live in a human's gastrointestinal (GI) tract known as the gut microbiota is an active area of research []. When operating optimally and under normal circumstances, the alliance between the immune system and gut microbiota interweaves the innate ...

Cited by: 6 Author: Ji Youn Yoo, Maureen Groer, Samia Valer...

Publish Year: 2020

### Home | Infection and Immunity

<https://iai.asm.org> ▾

Ectopic Expression of Human Thymosin  $\beta$ 4 Confers Resistance to Legionella pneumophila during Pulmonary and Systemic Infection in Mice Thymosin beta-4 ( $T\beta$ 4) is an actin-sequestering peptide that plays important roles in regeneration and remodeling of injured tissues.

### Metabolites of Lactobacillus plantarum 2142 Prevent ...

<https://www.researchgate.net/publication/322058812>

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Increased Levels of Inflammatory Mediators in Children and ...

https://www.ncbi.nlm.nih.gov/pmc/articles/PMC119937
Investigations were carried out to study the production of factors associated with the innate immune response in the systemic and mucosal compartments in adults and children infected with Vibrio cholerae O1 and V. cholerae O139. The levels of nonspecific mediators of the innate defense system, i.e., prostaglandin E 2 (PGE 2), leukotriene B 4 (LTB 4), and lactoferrin (LF), as well as ...
Cited by: 112 Author: Firdausi Qadri, Rubhana Raqib, Firoz Ahme...
Publish Year: 2002

Intestinal barrier damage, systemic inflammatory response ...

https://www.sciencedirect.com/science/article/pii/S075333222030963X
Dec 01, 2020 - The effects of intestinal barrier failure, such as intestinal immune deficiency, increased IP and intestinal microflora disturbance, maintain and amplify SIRS. Additionally, inflammation in the intestine connects to the pancreas, and then lungs through the systemic circulation and ML pathway, eventually leading to and aggravating ALI [ 75 ...
Author: Peng Ge, Yalan Luo, Chukwuemeka Sa... Publish Year: 2020

PEOPLE ALSO ASK

- How is IL-8 produced during Shigella infection?
How does Shigella cause cell death in nonmyeloid cells?
What kind of disease does Shigella cause in humans?

Feedback

Shigella Induces Mitochondrial Dysfunction and Cell Death ...

https://www.sciencedirect.com/science/article/pii/S1931312809000298
Feb 14, 2009 - Shigella rapidly kills myeloid cells via a caspase-1 inflammasome-dependent cell death mechanism. However, despite a critical role for nonmyeloid cells in the pathophysiology of Shigella infection, the mechanism by which Shigella kills nonmyeloid cells remains uncharacterized. Here we demonstrate that, in nonmyeloid cells, Shigella infection induces loss of mitochondrial inner ...
Cited by: 150 Author: Leticia A.M. Carneiro, Leticia A.M. Carneiro...
Publish Year: 2009

bacteria lab yeasts: Topics by Science.gov

https://www.science.gov/topicpages/b/bacteria+lab+yeasts
Jun 15, 2010 - 2017-03-01. The aim of this study was to evaluate the chemical and microbiological characteristics and to identify the lactic acid bacteria (LAB) and yeasts involved in rehydrated corn kernel silage. Four replicates for each fermentation time: 5, 15, ...

BRENDA - Information on EC 3.4.22.36 - caspase-1

https://www.brenda-enzymes.org/enzyme.php?ecno=3.4...
Caspase-1 deficiency promotes high-fat diet-induced adipose tissue inflammation and the development of obesity. Caspases and inflammasomes in metabolic inflammation. Inflammasome is a central player in the induction of obesity and insulin resistance. Obesity development in caspase-1-deficient mice.

Pathogen-induced inflammation in immunocompromised ...

https://open.library.ubc.ca/handle/2429/47546
Primary immunodeficiencies arise from genetic anomalies and can cause aberrant inflammation, tissue destruction, and uncontrolled infections. Defects in immunity often first present as cases of recurrent or severe infections with unusual pathogens. Patients with chronic granulomatous disease (CGD) have mutations in the NADPH oxidase that prevent the formation of reactive oxygen species (ROS) ...

Shigella flexneri. Medical search

https://lookformedical.com/en/search/shigella-flexneri
May 20, 2019 - Shigella flexneri infection: pathogenesis and vaccine development. The inflammation produced by the host has been implicated in both the destruction of the colonic epithelium and in controlling and containing the Shigella infection. However, a recent analysis indicated an increase in Shigella infection among adult males ( 2 ).

Microbial Pathogenesis via MedWorm.com

https://medworm.com/journal/microbial-pathogenesis.xml
Alterations in the gut microbiota and metabolic profiles coincide with intestinal damage in mice with a bloodborne Candida albicans infection ... as vaccine candidates in a mouse model of staphylococcus aureus systemic infection. ... Ernsosma chinense Vogel, for its anti-diarrhoeal potential against Shigella flexneri-induced diarrhoea using in ...

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Name of Journal: *World Journal of Gastroenterology*  
Manuscript NO: 65240  
Manuscript Type: ORIGINAL ARTICLE

**Basic Study**  
**Increased systemic RNA oxidative damage and the diagnostic value of RNA oxidative metabolites during *Shigella flexneri*-induced intestinal infection**

Nie JJ *et al.* RNA oxidative damage in infection

Jing-Jing Nie, Ya-Ya Pian, Ji-Hong Hu, Guo-Qing Fan, Lv-Tao Zeng, Qiu-geng OuYang, Zhen-Xiang Gao, Zhen Liu, Chen-Chen Wang, Qian Liu, Jian-Ping Cai

**Abstract**

**BACKGROUND**

*Shigella flexneri* (*S. flexneri*) is a major pathogen causing acute intestinal infection, but the systematic oxidative damage incurred during the course of infection has not been

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### Increased Levels of Inflammatory Mediators in Children and ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC119937>

Investigations were carried out to study the production of factors associated with the innate immune response in the **systemic** and mucosal compartments in adults and children infected with *Vibrio cholerae* O1 and *V. cholerae* O139. The levels of nonspecific mediators of the innate defense system, i.e., prostaglandin E 2 (PGE 2), leukotriene B 4 (LTB 4), and lactoferrin (Lf), as well as ...

Cited by: 112

Author: Firdausi Qadri, Rubhana Raqib, Firoz Ah...

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<https://www.sciencedirect.com/science/article/pii/S1931312809000298>

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Author: Leticia A.M. Carneiro, Leticia A.M. Ca...

Publish Year: 2009

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Feedback

### Oxidized Pork Induces Oxidative Stress and Inflammation by ...

<https://www.researchgate.net/publication/337975810...>

Anti-inflammatory effects of H<sub>2</sub>S during acute bacterial infection: A review ... development of **intestinal** and **systemic** diseases. ... trend to **increased** levels of **oxidative damage** with higher ...

Estimated Reading Time: 9 mins