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3Pellegrini C. Abstract Background Symptoms of **digestive** dysfunction in patients with Parkinson's disease (PD) occur at all stages of the disease, often preceding the onset of central **motor** symptoms. On the basis of these PD-preceding symptoms it has been proposed that PD could initiate in the gut,

Enteric Nervous System in the Small Intestine ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3752592>

The **digestive** system is endowed with its own, local nervous system, referred to as the enteric nervous system (ENS). Given the varied functions of small intestine, its ENS has developed individualized characteristics relating to motility, secretion, digestion, and inflammation.

Cited by: 62

Author: Behtash Ghazi Nezami, Shanthi Srinivasan

Publish Year: 2010

Irritable bowel syndrome - PubMed Central (PMC)

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5001845>

Irritable **bowel** syndrome (IBS) is a functional **bowel** disorder (that is, not **associated** with structural or biochemical abnormalities that are detectable with the current routine diagnostic tools) characterized by abdominal pain or discomfort, stool irregularities and bloating (BOX 1).

Cited by: 235

Author: Paul Enck, Qasim Aziz, Giovanni Barbara,...

Publish Year: 2016

(PDF) Activated Eosinophils in Association with Enteric ...

https://www.researchgate.net/publication/236959655_Activated_Eosinophils_in...

Activated Eosinophils in Association with Enteric Nerves in Inflammatory **Bowel** Disease ... coding of colonic **neuromuscular compartment** in a ... **motor dysfunctions** often **associated** to PD. ...

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D'Antongiovanni V *et al.* Morphological changes in gut dysmotility

Vanessa D'Antongiovanni, Carolina Pellegrini, Matteo Fornai, Rocchina Colucci, Corrado Blandizzi, Luca Antonioli, Nunzia Bernardini

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Sep 01, 2017 · This increased **intestinal permeability** in later stages of **disease** occurred as a result of **epithelial damage**, rather than tight junction regulation. Thus, the **myosin light chain kinase-deficient mice** eventually develop **barrier loss** through tight junction-independent mechanisms and that **barrier loss**, in turn, contributes to **disease** progression.

Cited by: 19

Author: Wangsun Choi, Sunil Yeruva, Jerrold R. T...

Publish Year: 2017

Intestinal barrier function in health and gastrointestinal ...

<https://onlinelibrary.wiley.com/doi/full/10.1111/j.1365-2982.2012.01921.x>

Defects in **intestinal barrier** function are associated with **diseases** of the **gastrointestinal** (GI) tract. There is growing evidence that increases in **intestinal** permeability plays a pathogenic role in **diseases**, such as **inflammatory bowel disease** (IBD) and **celiac disease**, and functional **bowel disorders**, such as **irritable bowel syndrome** (IBS).

Cited by: 382

Author: Michael Camilleri, K. Madsen, R. Spiller, ...

Publish Year: 2012

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Intestinal Barrier Function: Molecular Regulation and ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4266989>

Dysregulation of the **intestinal barrier** has been associated with **chronic immune diseases** including food allergy, **IBD** and **celiac disease**. Whether or not **intestinal epithelial barrier** function is a primary etiologic factor in the predisposition to **disease** development remains unclear; however clinical and experimental evidence supports a role for **intestinal epithelial barrier dysfunction in disease pathogenesis**.

Cited by: 982

Author: Katherine R. Groschwitz, Simon P. Hogan

Publish Year: 2009

Contributions of intestinal epithelial barriers to health ...

<https://www.sciencedirect.com/science/article/pii/S001448271730157X>

Sep 01, 2017 · This increased **intestinal permeability** in later stages of **disease** occurred as a result of **epithelial damage**, rather than tight junction regulation. Thus, the **myosin light chain kinase-deficient mice** eventually develop **barrier loss** through tight junction-independent mechanisms and that **barrier loss**, in turn, contributes to **disease** progression.

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