

Comfort food: Probiotic-derived product protects in model of intestinal inflammation

May 23 2011

Many people tout the beneficial effects of probiotics in preventing and/or treating several intestinal diseases, including ulcerative colitis.

Although there have been few, if any, good clinical studies evaluating the clinical efficacy of probiotics, preclinical data suggest that probiotics and approaches utilizing probiotic-derived products could be effective therapies for acute and chronic [gastrointestinal disorders](#).

In this context, a team of researchers, led by Fang Yan, at Vanderbilt University Medical Center, Nashville, have now identified a new [probiotic bacteria](#)-derived soluble protein that can protect intestinal cells from inflammation and injury and unraveled its mechanism of action. Importantly, specific delivery of the protein (p40) to the colon provided therapeutic and prophylactic protection in several mouse models of colitis. The authors suggest that their data provide rationale for the development of probiotic-derived proteins as reagents for preventing and/or treating ulcerative intestinal inflammatory disorders.

In an accompanying commentary, Fayez Ghishan and Pawel Kiela, at the University of Arizona, Tucson, concur with this position, although they caution that further work in humans is needed.

More information: Colon-specific delivery of a probiotic-derived soluble protein ameliorates intestinal inflammation in mice through an EGFR-dependent mechanism, [www.jci.org/articles/view/4403 ... 24d663bbebde11d8c23d](http://www.jci.org/articles/view/4403...24d663bbebde11d8c23d)

From probiotics to therapeutics: another step forward?

[www.jci.org/articles/view/5802 ... 9172d5ef2e96a5eda4f0](http://www.jci.org/articles/view/5802...9172d5ef2e96a5eda4f0)

Provided by Journal of Clinical Investigation

Citation: Comfort food: Probiotic-derived product protects in model of intestinal inflammation (2011, May 23) retrieved 2 May 2024 from <https://medicalxpress.com/news/2011-05-comfort-food-probiotic-derived-product-intestinal.html>

This document is subject to copyright. Apart from any fair dealing for the purpose of private study or research, no part may be reproduced without the written permission. The content is provided for information purposes only.