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**Cited by:** 9 **Author:** Thomas F. Conway, Laura Hammer, Sta...

**Publish Year:** 2015

### Oral Delivery of Particulate Transforming Growth Factor ...

<https://academic.oup.com/ecco-jcc/article/9/8/647/406566>

May 18, 2015 · Thomas F. Conway, Laura Hammer, Stacia Furtado, Edith Mathiowitz, Ferdinando Nicoletti, Katia Mangano, Nejat K. Egilmez, Dominick L. Auci, **Oral Delivery** of Particulate **Transforming Growth Factor Beta 1** and All-Trans Retinoic Acid Reduces **Gut** Inflammation in Murine Models of Inflammatory **Bowel Disease**, Journal of Crohn's and Colitis, Volume 9, Issue 8, ...

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[europepmc.org/articles/PMC4817304](http://europepmc.org/articles/PMC4817304)

Aug 01, 2015 · **Oral Delivery** of Particulate **Transforming Growth Factor Beta 1** and All-Trans Retinoic Acid Reduces **Gut** Inflammation in Murine Models of Inflammatory **Bowel Disease** Thomas F. Conway , a , b Laura Hammer , a Stacia Furtado , a , c Edith Mathiowitz , c Ferdinando Nicoletti , d Katia Mangano , d Nejat K. Egilmez , a , b and Dominick L. Auci a

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Cited by: 12 Author: Thomas F. Conway, Laura Hammer, Staci...

Publish Year: 2015

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<https://www.ncbi.nlm.nih.gov/pubmed/25987350>

Oral Delivery of Particulate Transforming Growth Factor Beta 1 and All-Trans Retinoic Acid Reduces Gut Inflammation in Murine Models of Inflammatory Bowel Disease. Conway TF(1), Hammer L(2), Furtado S(3), Mathiowitz E(4), Nicoletti F(5), Mangano K(5), Egilmez NK(6), Auci DL(2).

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### Emerging oral targeted therapies in inflammatory bowel ...

<https://journals.sagepub.com/doi/10.1177/1756283X17727388>

To improve quality of life and prevent long-term risks in patients with inflammatory bowel diseases (IBDs: Crohn's disease, ulcerative colitis), it is essential to suppress inflammatory activity ad...

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<https://www.frontiersin.org/articles/10.3389/fimmu.2018.01407/full>

Jun 20, 2018 · One such a molecule is transforming growth factor- $\beta$ 1 (TGF- $\beta$ 1), a cytokine produced by many inflammatory and non-inflammatory cells and targeting virtually all the intestinal mucosal cell types, with the down-stream effect of activating intracellular Smad2/3 proteins and suppressing immune reactions.

Cited by: 19 Author: Edoardo Troncone, Irene Marafini, Carmi...

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Journal of Cellular Biochemistry: Vol 120, No 9

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**Manuscript NO:** 56593  
**Manuscript Type:** ORIGINAL ARTICLE

**Basic Study**  
**Oral encapsulated transforming growth factor  $\beta$ 1 reduces endogenous levels: Effect on inflammatory bowel disease**

Hammer L *et al.* Reduced TGF $\beta$  after oral delivery

Laura Hammer, Stacia Furtado, Edith Mathiowitz, Dominick L Auci

**Abstract**  
**BACKGROUND**  
 TreXTAM<sup>®</sup> is a combination of the key regulatory cytokine transforming growth factor beta (TGF $\beta$ ) and all trans retinoic acid (ATRA) microencapsulated for oral delivery to immune structures of the gut. It is in development as a novel treatment for inflammatory bowel disease (IBD).

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**Cited by:** 12 **Author:** Thomas F. Conway, Laura Hammer, Sta...

**Publish Year:** 2015

### Oral Administration of Transforming Growth Factor- $\beta$ 1 (TGF ...

[europepmc.org/articles/PMC3843089](http://europepmc.org/articles/PMC3843089)

Thus, **TGF- $\beta$ 1** is capable of eliciting **anti-inflammatory effects** by inhibiting NF- $\kappa$ B specifically in the intestinal epithelium as well as by decreasing systemic IL-6 and IFN- $\gamma$  levels. **Oral administration** of **TGF- $\beta$ 1** therefore can potentially be used to ...

### Oral Administration of Recombinant Adeno-associated Virus ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3498798>

Transforming growth factor- $\beta$ 1 (TGF- $\beta$ 1) is the key profibrotic cytokine in **hepatic fibrosis**. Bone morphogenetic protein-7 (BMP-7) is a potent antagonist of TGF- $\beta$ 1 and an antifibrotic factor. In this study, we generated a recombinant adeno-associated virus carrying BMP-7 (AAV-BMP-7) and tested its ability to suppress carbon tetrachloride (CCl<sub>4</sub>)-induced hepatic fibrosis when orally ...