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Name of Journal: *World Journal of Gastroenterology***Manuscript NO:** 56536**Manuscript Type:** FRONTIER**Treatment repurposing for inflammatory bowel disease using literature-related discovery and innovation**

Ronald Neil Kostoff, Michael Brandon Briggs, Darla Royce Shores

Abstract

Inflammatory bowel disease (IBD) incidence has been increasing steadily, most dramatically in the Western developed countries. Treatment often includes lifelong immunosuppressive therapy and surgery. There is a critical need to reduce the burden



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Literature Based Discovery: Models, methods, and trends ...

<https://www.sciencedirect.com/science/article/pii/S1532046417301909>

Classic examples of drug **repurposing** include Viagra, which was developed as a **treatment** for angina, and was **repurposed** to treat erectile dysfunction; Rogaine, originally developed for high blood pressure, found success as a baldness **treatment** ; Topiramate, an anti-epileptic drug was developed to treat obesity, and Prozac, an anti-depressant was ...

Cited by: 16

Author: Sam Henry, Bridget T. McInnes

Publish Year: 2017

Discovery of inflammatory bowel disease-associated miRNAs ...

<https://bmcmmedgenomics.biomedcentral.com/articles/10.1186/s12920-020-0660-y>

Feb 24, 2020 · Multidimensional data mining from an integrated environment of different data sources is frequently performed in computational system biology. The molecular mechanism from the analysis of a complex network of gene-miRNA can aid to diagnosis and **treatment** of associated **diseases**. In this work, we mainly focus on finding inflammatory bowel **disease** (IBD) associated ...

Author: Md. Altaf-Ul-Amin, Mohammad Bozl...

Publish Year: 2020

Literature-related discovery: common factors for Parkinson ...

<https://link.springer.com/10.1007/s11192-014-1298-3>

May 11, 2014 · **Literature-related discovery** (LRD) is the linking of two or more **literature concepts** that have heretofore not been linked (i.e., disjoint), in order to produce novel, interesting, and intelligible knowledge (i.e., **potential discovery**). The ...

Cited by: 10

Author: Ronald N. Kostoff

Publish Year: 2014

Management of patients with inflammatory bowel disease ...

<https://www.pharmaceutical-journal.com/research/review-article/management-of-patients>



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Computational drug repurposing for inflammatory bowel ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6352300>

The need for new drugs in IBD treatment has brought attention to the procedure known as **drug** repurposing. The goal of a repurposing study is to find new uses for existing drugs. In our case, the aim was to find drugs to target IBD (that weren't used for IBD currently).

Cited by: 6**Author:** Liam Grenier, Pingzhao Hu**Publish Year:** 2019

Therapy with stem cells in inflammatory bowel disease

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3921504>

Feb 07, 2014 · **Inflammatory bowel disease (IBD)** affects a part of the young population and has a strong impact upon quality of life. The underlying etiology is not known, and the existing **treatments** are not curative. Furthermore, a significant percentage of patients are refractory to therapy.

Cited by: 68**Author:** María del Pilar Martínez-Montiel, Gonzalo...**Publish Year:** 2014

2016 Therapeutic/Indication Pairing Projects | National ...

<https://ncats.nih.gov/ntu/projects/2016> ▼

Preclinical Evaluation of a Neutrophil Elastase Inhibitor for the Treatment of Inflammatory Bowel Disease. Quantum Model Repurposing of Cethromycin for Liver Stage Malaria. Repurposing Lesogaberan for the Treatment of Type 1 Diabetes. Repurposing Misoprostol for Clostridium Difficile Colitis as Identified by PheWAS.

Literature-related discovery and innovation: Chronic ...

<https://www.researchgate.net/publication/268748790...>

Literature-Related Discovery and Innovation (LRDI) is a text mining approach that integrates **discovery** generation from disparate literatures with the wealth of knowledge contained in prior ...

Drug repurposing: progress, challenges and recommendations ...

<https://www.nature.com/articles/nrd.2018.168>

Oct 12, 2018 · Given the high attrition rates, substantial costs and slow pace of new drug **discovery** and development, **repurposing** of 'old' drugs to treat both common and rare **diseases** ...