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**Manuscript Type:** MINIREVIEWS

**Gut microbiome in primary sclerosing cholangitis: A review**

Little R *et al.* PSC microbiome

Rebecca Little, Eytan Wine, Binita M Kamath, Anne M Griffiths, Amanda Ricciuto

### **Abstract**

Primary sclerosing cholangitis (PSC) is a chronic cholestatic liver disease characterized by biliary inflammation and stricturing. Exploration of the pathogenesis of PSC in light of its association with inflammatory bowel disease (IBD) and the “gut-liver” axis is an

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**PURPOSE OF REVIEW:** Alterations of the **gut**-liver axis have been linked to the pathogenesis of **primary sclerosing cholangitis** (PSC) since the disease was first described. The purpose of this **review** is to discuss multiple recent studies on the **intestinal microbiota** in human PSC and experimental models of this disease.

[Intestinal microbiota in primary sclerosing cholangitis.](https://www.ncbi.nlm.nih.gov/pubmed/28030369)

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The "gut microbiota" hypothesis in primary sclerosing cholangitis. Program for Autoimmune Liver Diseases, International Center for Digestive Health, Department of Medicine and Surgery, University of Milan-Bicocca, Milan, Italy. Corresponding author. Correspondence to: Pietro Invernizzi, MD, PhD.

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[Primary sclerosing cholangitis: A review and update](https://www.ncbi.nlm.nih.gov/pubmed/28030369)

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Primary sclerosing cholangitis (PSC) is a rare, chronic, cholestatic liver disease of uncertain etiology characterized biochemically by cholestasis and histologically and cholangiographically by fibro-obliterative inflammation of the bile ducts.

Cited by: 5 Author: James H. Tabibian, James H. Tabibian, C...





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## Review article: the gut microbiome as a therapeutic target ...

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Review article: the gut microbiome as a therapeutic target in the pathogenesis and treatment of chronic liver disease. Woodhouse CA(1), Patel VC(1), Singanayagam A(1), Shawcross DL(1). Author information: (1)Institute of Liver Studies and Transplantation, King's College London School of Medicine at King's College Hospital, London, UK.

Cited by: 71 Author: C. A. Woodhouse, V. C. Patel, A. Singan...

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See the article "Primary sclerosing cholangitis is characterised by intestinal dysbiosis independent from IBD" in Gut, volume 65 on page 1681. Primary sclerosing cholangitis (PSC) is a rare, immune-related disease characterized by chronic biliary inflammation and fibrosis of the intra and/or extra-hepatic biliary tree, leading to end-stage ...

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## [The Microbiome in Primary Sclerosing Cholangitis: Current ...](#)

<https://www.ncbi.nlm.nih.gov/pubmed/29272894>

Epub 2017 Dec 22. The Microbiome in Primary Sclerosing Cholangitis: Current Evidence and Potential Concepts. **Hov JR(1)(2)(3)**, **Karlsen TH(1)(2)(3)**. Author information: (1)Division of Surgery, Inflammatory Diseases and Transplantation, Department of Transplantation Medicine, **Norwegian PSC Research**

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