



Memorial of the famous German composer Johann Sebastian Bach in front of St Thomas Church in Leipzig, Germany. Read in this issue the great work by Massier et al from Leipzig, looking at adipose tissue derived bacteria in obesity and type 2 diabetes.

An international journal of gastroenterology and hepatology

Impact Factor: 19.819

Editor

Emad El-Omar (Australia)

Deputy Editor (Hepatology)

Alexander Gerbes (Germany)

Deputy Editor (Luminal Gastroenterology)

William Grady (USA)

Deputy Editor (Endoscopy)

Thomas Rosch (Germany)

Associate Editors

Guy Boeckxstaens (Belgium)

Patrice Cani (Belgium)

Jean-Francois Dufour (Switzerland)

Thomas Gress (Germany)

Christian Jobin (USA)

Arthur Kaser (UK)

Ernst Kuipers (The Netherlands)

Siew C Ng (Hong Kong)

Francisco Real (Spain)

Robert Thimme (Germany)

Herbert Tilg (Austria)

Fabien Zoulim (France)

Artificial Intelligence/ Machine Learning Editor

Akbar Waljee (USA)

Statistics Editors

Ruben Hernaez (USA)

Susan Hutfless (USA)

Editorial Office

Gut

BMJ Journals

BMA House, Tavistock Square

London, WC1H 9JR, UK

E: info.gut@bmj.com

ISSN: 0017-5749 (print)

ISSN: 1468-3288 (online)

Disclaimer: The Editor of *Gut* has been granted editorial freedom and *Gut* is published in accordance with editorial guidelines issued by the World Association of Medical Editors and the Committee on Publication Ethics. *Gut* is primarily intended for healthcare professionals and its content is for information only. The Journal is published without any guarantee as to its accuracy or completeness and any representations or warranties are expressly excluded to the fullest extent permitted by law. Readers are advised to independently verify any information on which they choose to rely. Acceptance of advertising by *Gut* does not imply endorsement. Neither *BSG* nor *BMJ* Publishing Group Limited shall have any liability for any loss, injury or damage howsoever arising from *Gut* (except for liability which cannot be legally excluded).

Copyright © 2020 BMJ Publishing Group Ltd and British Society of Gastroenterology. All rights reserved; no part of this publication may be reproduced in any form without permission.

Gut is published by BMJ Publishing Group Ltd, typeset by Exeter Premedia Services Private Ltd, Chennai, India and printed in the UK on acid-free paper

Gut (ISSN: 0017-5749) (USPS 2278) is published bimonthly by BMJ Publishing Group Ltd, BMA House, Tavistock Square, WC1H 9JR London.

Airfreight and mailing in the USA by agent named WN Shipping USA, 156-15, 146th Avenue, 2nd Floor, Jamaica, NY 11434, USA. Periodicals postage paid at Brooklyn, NY 11256. US Postmaster: Send address changes to *Gut*, WN Shipping USA, 156-15, 146th Avenue, 2nd Floor, Jamaica, NY 11434, USA. Subscription records are maintained at BMA House, Tavistock Square WC1H 9JR London. Air Business Ltd is acting as our mailing agent.

Commentaries

1723 Bright future for endoscopy: the new frontier of gastric cancer secondary prevention
J Bornschein, M Rugge

1724 Microbial translocation in type 2 diabetes: when bacterial invaders overcome host defence in human obesity
B AH Jensen, A Marette

Endoscopy news

1727 Transoesophageal endoscopic removal of a benign mediastinal tumour: a new field for endotherapy?
P Gao, Q Li, J Hu, J Xu, S Lin, M Cai, L Ma, W Chen, Y Zhang, S Chen, Y Zhong, L Yao, P Zhou

Leading article

1730 Actionable biomarkers: the key to resolving disorders of gastrointestinal function
M Camilleri, V Chedid

Stomach

1738 DNA damage signalling as an anti-cancer barrier in gastric intestinal metaplasia
V Krishnan, D X E Lim, P M Hoang, S Srivastava, J Matsuo, K K Huang, F Zhu, K Y Ho, J B Y So, C Khor, S Tsao, M Teh, K M Fock, T L Ang, A D Jeyasekharan, P Tan, K-G Yeoh, Y Ito

1750 MiR130b from Schlafen4⁺ MDSCs stimulates epithelial proliferation and correlates with preneoplastic changes prior to gastric cancer
L Ding, Q Li, J Chakrabarti, A Munoz, E Faure-Kumar, R Ocádiz-Ruiz, N Razumilava, G Zhang, M H Hayes, R A Sontz, Z E Mendoza, S Mahurkar, J K Greenson, G Perez-Perez, N T H Hanh, Y Zavros, L C Samuelson, D Iliopoulos, J L Merchant

Endoscopy

1762 Endoscopic grading of gastric intestinal metaplasia on risk assessment for early gastric neoplasia: can we replace histology assessment also in the West?
P Marcos, G Brito-Gonçalves, D Libânio, I Pita, R Castro, I Sá, M Dimis-Ribeiro, P Pimentel-Nunes

Inflammatory bowel disease

1769 Adaptations to the British Society of Gastroenterology guidelines on the management of acute severe UC in the context of the COVID-19 pandemic: a RAND appropriateness panel
S Din, A Kent, R C Pollok, S Meade, N A Kennedy, I Arnott, R M Beattie, F Chua, R Cooney, R J Dart, J Galloway, D R Gaya, S Ghosh, M Griffiths, L Hancock, R Hansen, A Hart, C A Lamb, C W Lees, J K Limdi, J O Lindsay, K Patel, N Powell, C D Murray, C Probert, T Raine, C Selinger, S Sebastian, P J Smith, P Tozer, A Ustianowski, L Younge, M A Samaan, P M Irving

1778 Automatic, computer-aided determination of endoscopic and histological inflammation in patients with mild to moderate ulcerative colitis based on red density
P Bossuyt, H Nakase, S Vermeire, G de Hertogh, T Eelbode, M Ferrante, T Hasegawa, H Willekens, Y Ikemoto, T Makino, R Bisschops

Nutrition

1787 Intravenous supplementation type and volume are associated with 1-year outcome and major complications in patients with chronic intestinal failure
L Pironi, E Steiger, F Joly, G J A Wanten, C Chambrier, U Aimasso, A S Sasdelli, K Szczepanek, A Jukes, M Theilla, M Kunecki, J Daniels, M J Serlie, S C Cooper, F Poullenet, H H Rasmussen, C W Compher, A Crivelli, S-J Hughes, L Santarpia, F W Guglielmi, N Rotovnik Kozjek, L Ellegard, S M Schneider, P Matras, A Forbes, N Weyer, A Zmarzly, M Taus, M O'Callaghan, E Osland, R Thibault, C Cuerda, L Jones, B Chapman, P Sahin, N M Virgili, A D W Lee, P Orlandoni, K Matysiak, S Di Caro, M Doitchinova-Simeonova, L Masconale, C Spaggiari, C Garde, A E Serralde-Zúñiga, G Oliveira, Z Krznaric, E Petrina Jáuregui, A Zugasti Murillo, J P Suárez-Llanos, E Nardi, A Van Gossum, S Lal

MORE CONTENTS ►



This article has been chosen by the Editor to be of special interest or importance and is freely available online.



This article has been made freely available online under the BMJ Journals open access scheme. See <http://authors.bmj.com/open-access/>



Member since 2008

This journal is a member of and subscribes to the principles of the Committee on Publication Ethics www.publicationethics.org.uk



When you have finished with this magazine please recycle it.

Gut: first published as on 1 October 2020. Downloaded from <http://gut.bmj.com/> on October 30, 2020 by guest. Protected by copyright.

Gut microbiota

1796 Adipose tissue derived bacteria are associated with inflammation in obesity and type 2 diabetes



L Massier, R Chakaroun, S Tabei, A Crane, K D Didt, J Fallmann, M von Bergen, S-B Haange, H Heyne, M Stunvoll, M Gericke, A Dietrich, M Blüher, N Musat, P Kovacs

1807 Maternal low-dose aspartame and stevia consumption with an obesogenic diet alters metabolism, gut microbiota and mesolimbic reward system in rat dams and their offspring



J E Nettleton, N A Cho, T Klancic, A C Nicolucci, J Shearer, S L Borgland, L A Johnston, H R Ramay, E Noye Tuplin, F Chleilat, C Thomson, S Mayengbam, K D McCoy, R A Reimer

Colon

1818 Therapeutic potential of FLANC, a novel primate-specific long non-coding RNA in colorectal cancer

M Pichler, C Rodriguez-Aguayo, S Y Nam, M P Dragomir, R Bayraktar, S Anfossi, E Knutsen, C Ivan, E Fuentes-Mattei, S K Lee, H Ling, T Catela Ivkovic, G Huang, L Huang, Y Okugawa, H Katayama, A Taguchi, E Bayraktar, R Bhattacharya, P Amero, W R He, A M Tran, P Vychytilova-Faltejskova, C Klec, D L Bonilla, X Zhang, S Kapitanovic, B Loncar, R Gafà, Z Wang, V Cristini, S M Hanash, M Bar-Eli, G Lanza, O Slaby, A Goel, I Rigoutsos, G Lopez-Berestein, G A Calin

COVID-19

1832 COVID-19 in an international European liver transplant recipient cohort

C Becchetti, M F Zambelli, L Pasulo, M F Donato, F Invernizzi, O Detry, G Dahlgvist, O Ciccarelli, M C Morelli, M Fraga, G Svegliati-Baroni, H van Vierberghe, M J Coenraad, M C Romero, A de Gottardi, P Toniutto, L Del Prete, C Abbati, D Samuel, J Pirenne, F Nevens, J-F Dufour, COVID-LT group

Hepatology

1841 S100A11/ANXA2 belongs to a tumour suppressor/oncogene network deregulated early with steatosis and involved in inflammation and hepatocellular carcinoma development

C Sobolewski, D Abegg, F Berthou, D Dolicka, N Calo, C Sempoux, M Fournier, C Maeder, A-S Ay, P-A Clavien, B Humar, J-F Dufour, A Adibekian, M Foi

1855 Liver transcriptomics highlights interleukin-32 as novel NAFLD-related cytokine and candidate biomarker



G A Baselli, P Dongiovanni, R Rametta, M Meroni, S Pelusi, M Maggioni, S Badiali, P Pingitore, S Maurotti, T Montalcini, A E Taliento, D Prati, G Rossi, A L Fracanzani, R M Mancina, S Romeo, L Valenti

Recent advances in basic science

1867 The role of gut microbiota in cancer treatment: friend or foe?



W Y Cheng, C-Y Wu, J Yu

Recent advances in clinical practice

1877 Combination therapy for non-alcoholic steatohepatitis: rationale, opportunities and challenges



J-F Dufour, C Caussy, R Loomba

JournalScan

1885 GI highlights from the literature

P J Smith

PostScript

1887 Letters

**Editor's quiz: GI snapshot**

1761 An 80-year-old man with caecal ulceration

B E White, A Al-Badri, J N Gordon

Electronic pages

e6 Correction: *Loss of Setd2 promotes Kras-induced acinar-to-ductal metaplasia and epithelia–mesenchymal transition during pancreatic carcinogenesis*

e7 Correction: *Prolactin mediates psychological stress-induced dysfunction of regulatory T cells to facilitate intestinal inflammation*

e8 Correction: *Personalised surveillance for serrated polyposis syndrome: results from a prospective 5-year international cohort study*