

Bow bridge, Central Park, New York City. Read in this issue the important paper by Ungaro et al examining the effect of IBD medications on COVID-19 outcomes

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 (Belguim) Patrice Cani (Belgium) Jean-Francois Dufour (Switzerland) Thomas Gress (Germany) Christian Jobin (USA) Ernst Kuipers (The Netherlands) Markus Neurath (Germany) 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)

**Education and Digital Media Editor** Philip Smith (UK)

#### **Editorial Office**

**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 an representations or warranties are expressly excluded representations of 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** © 2021 BMJ Publishing Group Ltd and British Society of Gastroenterology. All rights and british source or deathermenough an ingine 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 is published by BMJ Publishing Group Ltd, typeset by Exeter Premedia Services Private Ltd, Chenna 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 World Container Inc, 150-15, 183rd Street, Jamaica, NY 11413, USA. Periodicals postage paid at Brooklyn, NY 11256. US Postmaster: Send address changes to *Gut*, World Container Inc, 150-15, 183rd Street, Jamaica, NY 11413, USA. Subscription records are maintained at BMA House, Tavistock Square WC1H 9HR Lodnon. Air Business Ltd is acting as our mailing agent.

### **Commentaries**

631 Epidemiology of gastroparesis: important answers and still more questions S Dilmaghani, M Camilleri

632 COVID-19 and IBD drugs: should we change anything at the moment? CW Lees, PM Irving, L Beaugerie

### Leading article

6

**635** SARS-CoV-2 vaccination for patients with inflammatory bowel diseases:

recommendations from an international consensus meeting

CA Siegel, GY Melmed, DPB McGovern, VRai, F Krammer, D T Rubin, M T Abreu, M C Dubinsky, on behalf of the International Organization for the Study of Inflammatory Bowel Disease (IOIBD)

# **Endoscopy news**

**641** Real-time unblinding for validation of a new CADe tool for colorectal polyp detection P Sinonquel, T Eelbode, C Hassan, G Antonelli, F Filosofi, H Neumann, I Demedts, P Roelandt, F Maes, R Bisschops

### Stomach



**644** Epidemiology and outcomes of gastroparesis, as documented in general practice records, in the United Kingdom

Y Ye, B Jiang, S Manne, P L Moses, C Almansa, D Bennett, P Dolin, A C Ford

Mist1+ gastric isthmus stem cells are regulated by Wnt5a and expand in response to injury and inflammation in mice

> H Nienhüser, W Kim, E Malagola, T Ruan, G Valenti, M Middelhoff, A Bass, C J Der, Y Hayakawa, T C Wang

# **Inflammatory bowel disease**

**666** Angiogenin maintains gut microbe homeostasis by balancing α-Proteobacteria and Lachnospiraceae

D Sun, R Bai, W Zhou, Z Yao, Y Liu, S Tang, X Ge, L Luo, C Luo, G Hu, J Sheng, Z Xu

Thiopurine monotherapy is effective in 677 6 ulcerative colitis but significantly less so in Crohn's disease: long-term outcomes for 11 928

patients in the UK inflammatory bowel disease bioresource

E Stournaras, W Qian, A Pappas, Y Y Hong, R Shawky, UK IBD BioResource Investigators, T Raine, M Parkes

## Gut microbiota



**687** Location-specific cell identity rather than exposure to GI microbiota defines many innate immune signalling cascades in the gut

> O Kayisoglu, F Weiss, C Niklas, I Pierotti, M Pompaiah, N Wallaschek, C-T Germer, A Wiegering, S Bartfeld

**6** 

Gut microbiota composition reflects disease severity and dysfunctional immune responses in patients with COVID-19

Y K Yeoh, T Zuo, G C-Y Lui, F Zhang, Q Liu, A YL Li, A CK Chung, C P Cheung, E YK Tso, K SC Fung, V Chan, L Ling, G Joynt, D S-C Hui, KM Chow, SSSNg, TC-MLi, RWYNg, T CF Yip, G L-H Wong, F KL Chan, C K Wong, PKS Chan, SCNg

# **GI** bleeding

**707** ABC score: a new risk score that accurately predicts mortality in acute upper and lower gastrointestinal bleeding: an international multicentre study

S B Laursen, K Oakland, L Laine, V Bieber, R Marmo, E Redondo-Cerezo, H R Dalton, I Ngu, M Schultz, M Soncini, I Gralnek, V Jairath, I A Murray, A J Stanley

Major GI bleeding in older persons using aspirin: incidence and risk factors in the ASPREE randomised controlled trial

> S E Mahady, K L Margolis, A Chan, G Polekhina, R L Woods, R Wolfe, M R Nelson, J E Lockery, EM Wood, CReid, ME Ernst, A Murray, LTP Thao, J J McNeil

> > 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/



This journal is a member of and subscribes to the principles of the Committee on Publication Ethics



www.publicationethics.org

#### COVID-19



725 Effect of IBD medications on COVID-19 outcomes: results from an international registry

> R C Ungaro, E J Brenner, R B Gearry, G G Kaplan, M Kissous-Hunt, J D Lewis, S C Ng, J-F Rahier, W Reinisch, F Steinwurz, F E Underwood, X Zhang, J-F Colombel, M D Kappelman

**733** Liver injury is independently associated with adverse clinical outcomes in patients with COVID-19

> T C-F Yip, G C-Y Lui, V W-S Wong, V C-Y Chow, TH-YHo, TC-MLi, Y-K Tse, DS-CHui, HL-Y Chan, GL-H Wong

### **Pancreas**



**743** Synergistic targeting and resistance to 6 PARP inhibition in DNA damage repairdeficient pancreatic cancer

> J Gout, L Perkhofer, M Morawe, F Arnold, M Ihle, S Biber, S Lange, E Roger, J M Kraus, K Stifter, S A Hahn, A Zamperone, T Engleitner, M Müller, K Walter, E Rodriguez-Aznar, B Sainz Jr, P C Hermann, E Hessmann, S Müller, N Azoitei, A Lechel, S Liebau, M Wagner, D M Simeone, HA Kestler, T Seufferlein, L Wiesmüller, R Rad, P-O Frappart, A Kleger

### **Hepatology**



**761** Dietary cholesterol drives fatty liverassociated liver cancer by modulating gut microbiota and metabolites

> X Zhang, O O Coker, E SH Chu, K Fu, HCHLau, Y-X Wang, AWH Chan, HWei, X Yang, J J Y Sung, J Yu

775 Role of serum HBV RNA and hepatitis B surface antigen levels in identifying Asian patients with chronic hepatitis B suitable for entecavir cessation W-K Seto, K SH Liu, L-Y Mak, G Cloherty, D K-H Wong, J Gersch, Y-F Lam, K-S Cheung, N Chow, K-L Ko, W-P To, J Fung, M-F Yuen

### Recent advances in basic science

**784** MicroRNAs as regulators, biomarkers and therapeutic targets in liver diseases X Wang, Y He, B Mackowiak, B Gao

# **Recent advances in clinical practice**

**796** Emerging treatment options for extraintestinal manifestations in IBD

> T Greuter, F Rieder, T Kucharzik, L Peyrin-Biroulet, A M Schoepfer, D T Rubin, S R Vavricka

### **JournalScan**

**803** Gl highlights from the literature P I Smith

# **PostScript**

806 Letters



OPEN ACCESS

## **Editor's quiz: GI snapshot**

Dysphagia in a young female patient: it's not always that simple

J Carvão, A Peixoto, E Rios, G Macedo

# **Electronic** page

Correction: British Society of Gastroenterology consensus quidelines on the management of inflammatory bowel disease in adults