

Picasso Birthplace Museum, Malaga, Spain. Read in this issue of Gut the PICaSSO masterpiece by Gui *et al*: the PICaSSO Histologic Remission Index (PHRI) for monitoring mucosal healing and predicting clinical outcomes in ulcerative colitis.

An international journal of gastroenterology and hepatology

Impact Factor: 23.059

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)

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 Hutflless (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 © 2022 *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 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 *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 London*. Air Business Ltd is acting as our mailing agent. WC1H 9HR London. Air Business Ltd is acting as our mailing agent.

Commentaries

847 Prognostic value of DAXX/ATRX loss of expression and ALT activation in PanNETs: is it time for clinical implementation?
I Marinoni

848 Combining dietary fibres to reduce intestinal gas production in patients with IBS
K Verbeke

Endoscopy news

850 Lumen-apposing metal stents for drainage of pancreatic fluid collections: does timing of removal matter?
M Nayar, J S Leeds, UK & Ireland LAMS Collaborative, K Oppong

Stomach

854 Severity of gastric intestinal metaplasia predicts the risk of gastric cancer: a prospective multicentre cohort study (GCEP)
J W J Lee, F Zhu, S Srivastava, S K K Tsao, C Khor, K Y Ho, K M Fock, W C Lim, T L Ang, W C Chow, J B Y So, C J Koh, S J Chua, A S Y Wong, J Rao, L G Lim, K L Ling, C-K Chia, C J Ooi, A Rajnakova, W M Yap, M Salto-Tellez, B Ho, R Soong, K S Chia, Y Y Teo, M Teh, K-G Yeoh

Endoscopy

864 Histopathological effects of electro-surgical interventions in an in vivo porcine model of colonic endoscopic mucosal resection
A M Whitfield, N G Burgess, F F Bahin, S Kabir, M Pellisé, R Sonson, V Subramanian, H Mahajan, D McLeod, K Byth, M J Bourke

871 Identification of the source events for aerosol generation during oesophago-gastro-duodenoscopy
F K A Gregson, A J Shrimpton, F Hamilton, T M Cook, J P Reid, A E Pickering, D J Pournaras, B R Bzdek, J Brown, the AERATOR group

COVID-19

879 Oral famotidine versus placebo in non-hospitalised patients with COVID-19: a randomised, double-blind, data-intensive, phase 2 clinical trial
C M Brennan, S Nadella, X Zhao, R J Dima, N Jordan-Martin, B R Demestichas, S O Kleeman, M Ferrer, E C von Gablenz, N Mourikis, M E Rubin, H Adnani, K Lee, T Ha, S Prum, C B Schleicher, S S Fox, M G Ryan, C Pili, G Goldberg, J M Crawford, S Goodwin, X Zhang, J B Preall, A S H Costa, J Conigliaro, J R Masci, J Yang, D A Tuveson, K J Tracey, T Janowitz

Artificial intelligence

889 PICaSSO Histologic Remission Index (PHRI) in ulcerative colitis: development of a novel simplified histological score for monitoring mucosal healing and predicting clinical outcomes and its applicability in an artificial intelligence system
X Gui, A Bazarova, R del Amor, M Vieth, G de Hertogh, V Villanacci, D Zardo, T L Parigi, E S Røyset, U N Shivaji, M A T Monica, G Mandelli, P Bhandari, S Danese, J G Ferraz, B H Hayee, M Lazarev, A Parra-Blanco, L Pastorelli, R Panaccione, T Rath, G E Tontini, R Kiesslich, R Bisschops, E Grisan, V Naranjo, S Ghosh, M Iacucci

Gut microbiota

899 Altered faecal microbiome and metabolome in IgG4-related sclerosing cholangitis and primary sclerosing cholangitis
Q Liu, B Li, Y Li, Y Wei, B Huang, J Liang, Z You, Y Li, Q Qian, R Wang, J Zhang, R Chen, Z Lyu, Y Chen, M Shi, X Xiao, Q Wang, Q Miao, J-Y Fang, M E Gershwin, M Lian, X Ma, R Tang

910 Underdevelopment of the gut microbiota and bacteria species as non-invasive markers of prediction in children with autism spectrum disorder
Y Wan, T Zuo, Z Xu, F Zhang, H Zhan, D CHAN, T-F Leung, Y K Yeoh, F K L Chan, R Chan, S C Ng

Neurogastroenterology

919 Psyllium reduces inulin-induced colonic gas production in IBS: MRI and in vitro fermentation studies
D Gunn, Z Abbas, H C Harris, G Major, C Hoard, P Gowland, L Marciani, S K Gill, F J Warren, M Rossi, J M Remes-Troche, K Whelan, R C Spiller


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/>

COPE
Member since 2008
This journal is a member of and subscribes to the principles of the Committee on Publication Ethics
www.publicationethics.org


recycle
When you have finished with this magazine please recycle it.

- 928** Decoy bypass for appetite suppression in obese adults: role of synergistic nutrient sensing receptors GPR84 and FFAR4 on colonic endocrine cells
 OPEN ACCESS
M Peiris, R Aktar, D Reed, V Cibert-Goton, A Zdanaviciene, W Halder, A Robinow, S Corke, H Dogra, C H Knowles, A Blackshaw


Colon

- 938** Chromatin state dynamics confers specific therapeutic strategies in enhancer subtypes of colorectal cancer
E Orouji, A T Raman, A K Singh, A Sorokin, E Arslan, A K Ghosh, J Schulz, C Terranova, S Jiang, M Tang, M Maitiuheti, S C Callahan, P Barrodia, K Tomczak, Y Jiang, Z Jiang, J S Davis, S Ghosh, H M Lee, L Reyes-Uribe, K Chang, Y Liu, H Chen, A Azhdarinia, J Morris, E Vilar, K S Carmon, S E Kopetz, K Rai
- 950** Faecal immunochemical tests safely enhance rational use of resources during the assessment of suspected symptomatic colorectal cancer in primary care: systematic review and meta-analysis
N Pin-Vieito, C Tejido-Sandoval, N de Vicente-Bielza, C Sánchez-Gómez, J Cubiella

Pancreas

- 961** Non-functional pancreatic neuroendocrine tumours: ATRX/DAXX and alternative lengthening of telomeres (ALT) are prognostically independent from ARX/PDX1 expression and tumour size
 OPEN ACCESS
W M Hackeng, L A A Brosens, J Y Kim, R O'Sullivan, Y-N Sung, T-C Liu, D Cao, M Heayn, J Brosnan-Cashman, S An, F H M Morsink, C M Heidsma, G D Valk, M R Vriens, E Nieveen van Dijkum, G J A Offerhaus, K M A Dreijerink, H Zeh, A H Zureikat, M Hogg, K Lee, D Geller, J W Marsh, A Panizza, M Ongchin, J F Pingpank, N Bahary, M Aijazi, R Brand, J Chennat, R Das, K E Fasanella, A Khalid, K McGrath, S Sarkaria, H Singh, A Slivka, M Nalesnik, X Han, M N Nikiforova, R T Lawlor, A Mafficini, B Rusev, V Corbo, C Luchini, S Bersani, A Pea, S Cingarlini, L Landoni, R Salvia, M Milione, M Milella, A Scarpa, S-M Hong, C M Heaphy, A D Singhi
- 974** Optimal timing of cholecystectomy after necrotising biliary pancreatitis
N D Hallensleben, H C Timmerhuis, R A Hollemans, S Pocornie, J van Grinsven, S van Brunschot, O J Bakker, R van der Sluijs, M P Schwartz, P van Duijvendijk, T Römkeens, M W J Stommel, R C Verdonk, M G Besselink, S A W Bouwense, T L Bollen, H C van Santvoort, M J Bruno, for the Dutch Pancreatitis Study Group

Hepatology

- 983** Clinical utility of 30% relative decline in MRI-PDFF in predicting fibrosis regression in non-alcoholic fatty liver disease
N Tamaki, N Munaganuru, J Jung, A Q Yonan, R R Loomba, R Bettencourt, V Ajmera, M A Valasek, C Behling, C B Sirlin, R Loomba
- 991** RNA helicase DDX5 enables STAT1 mRNA translation and interferon signalling in hepatitis B virus replicating hepatocytes
J Sun, G Wu, F Pastor, N Rahman, W-H Wang, Z Zhang, P MERLE, L Hui, A Salvetti, D Durantel, D Yang, O Andrisani
- 1006** Diagnostic accuracy of non-invasive tests for advanced fibrosis in patients with NAFLD: an individual patient data meta-analysis
 OPEN ACCESS
F E Mózes, J A Lee, E A Selvaraj, A N A Jayaswal, M Trauner, J Boursier, C Fournier, K Staufner, R E Stautber, E Bugianesi, R Younes, S Gaia, M Lupşor-Platon, S Petta, T Shima, T Okanoue, S Mahadeva, W-K Chan, P J Eddowes, G M Hirschfield, P N Newsome, V W-S Wong, V de Ledinghen, J Fan, F Shen, J F Cobbald, Y Sumida, A Okajima, J M Schattenberg, C Labenz, W Kim, M S Lee, J Wiegand, T Karlas, Y Yilmaz, G P Aithal, N Palaniyappan, C Cassinotto, S Aggarwal, H Garg, G J Ooi, A Nakajima, M Yoneda, M Ziol, N Barget, A Geier, T Tuthill, M J Brosnan, Q M Anstee, S Neubauer, S A Hamison, P M Bossuyt, M Pavlidis, the LITMUS Investigators

Recent advances in basic science

- 1020** Gut microbiome and health: mechanistic insights
 OPEN ACCESS
W M de Vos, H Tilg, M Van Hul, P D Cani

JournalScan

- 1033** GI highlights from the literature
P J Smith

PostScript

- 1035** Letters
 OPEN ACCESS

Editor's quiz: GI snapshot

- 888** Recurrent colonic polyps
J Aslan, T E Conley, F Campbell, P J Smith, F McNicol, T Andrews, S Subramanian

Electronic pages

- e6** Correction: *Growth differentiation factor 11 attenuates liver fibrosis via expansion of liver progenitor cells*
- e7** Correction: *PTH-60 Impact of SARS-CoV-2 pandemic on the IBD advice line— a single centre experience*