

The magnificent Ryoanji Temple Rock Garden in Kyoto, Japan. Read in this issue the landmark Kvoto international consensus report by Sugano et al on the anatomy, pathophysiology and clinical significance of the gastro-oesophageal junction

An international journal of gastroenterology and hepatology Impact Factor: 31.793 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)

**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 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 *Gu* 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 and binks society to deactoemic longy Aningrics 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, Chenn 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. House, lawstock Square, WC1H 9JH 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**

Contents

**1455** Deciphering the vedolizumab dosing conundrum in IBD: when less is more OPEN ACCESS TE Adolph, B Siegmund

**1457** Real-world data for endoscopic therapy in LGD: not looking so good S Srinivasan, P Sharma

#### Guidelines

1459 British Society of Gastroenterology (BSG) and British Society of Paediatric Gastroenterology, Hepatology 6 OPEN ACCESS and Nutrition (BSPGHAN) joint consensus guidelines on the diagnosis and management of eosinophilic oesophagitis in children and adults

A Dhar, H N Haboubi, S E Attwood, M K H Auth, J M Dunn, R Sweis, D Morris, J Epstein, M R Novelli, H Hunter, A Cordell, S Hall, J O Hayat, K Kapur, A R Moore, C Read, S S Sami, P J Turner, N J Trudgill

**1488** Kyoto international consensus report on anatomy, pathophysiology and clinical significance of the gastro-oesophageal junction K Sugano, S J Spechler, E M El-Omar, K E L McColl, 6

OPEN ACCESS K Takubo, T Gotoda, M Fujishiro, K Iijima, H Inoue, T Kawai, Y Kinoshita, H Miwa, K Mukaisho, K Murakami, Y Seto, H Tajiri, S Bhatia, M-G Choi, R C Fitzgerald, K M Fock, K-L Goh, K Y Ho, V Mahachai, M O'Donovan, R Odze, R Peek, M Rugge, P Sharma, J D Sollano, M Vieth, J Wu, M-S Wu, D Zou, M Kaminishi, P Malfertheiner

### Stomach

1515 STAT3-mediated upregulation of the AIM2 DNA sensor links innate immunity with cell migration to promote epithelial tumourigenesis

R E Dawson, V Deswaerte, A C West, K Tang, A [West, ] [Balic, L] Gearing, M I Saad, L Yu, Y Wu, P S Bhathal, B Kumar, I T Chakrabarti, Y Zavros, H Oshima, D M Klinman, M Oshima, P Tan, B J Jenkins

## Upper GI cancer

**1532** International variation in oesophageal and gastric cancer survival 2012-2014: differences by histological subtype and stage at diagnosis (an ICBP SURVMARK-2 population-based study) M Arnold, E Morgan, A Bardot, M J Rutherford, J Ferlay, A Little, B Møller, O Bucher, P De, R R Woods, N Saint-Jacques, A T Gavin, G Engholm, M P Achiam, G Porter, P M Walsh, S Vernon, S Kozie, A V Ramanakumar, C Lynch, S Harrison, N Merrett, D L O'Connell, T Mala, M Elwood, J Zalcberg, D W Huws, D Ransom, F Bray, I Soerjomataram

## Upper GI bleeding

- 1544 Timing of endoscopy for acute upper gastrointestinal bleeding: a territory-wide cohort study OPEN ACCESS
  - C L T Guo, S H Wong, L H S Lau, R N S Lui, JWY Mak, RSY Tang, TCF Yip, WKK Wu, G L H Wong, F K L Chan, J Y W Lau, J J Y Sung

#### Inflammatory bowel disease

**1551** Residual homing of  $\alpha 4\beta$ 7-expressing  $\beta 1^+$ Pl16<sup>+</sup> regulatory T cells with potent suppressive activity correlates with exposure-efficacy of vedolizumab E Becker, M Dedden, C Gall, M Wiendl, A B Ekici, A Schulz-Kuhnt, A Schweda, C Voskens, A Hegazy, F Vitali, R Atreva, T M Müller, I Atreva, M F Neurath, S Zundler

## Endoscopy

1567 Prospective, double-blind diagnostic multicentre 6 study of confocal laser endomicroscopy for wheat OPEN ACCESS sensitivity in patients with irritable bowel syndrome C Bojarski, P Tangermann, C Barmeyer, J Buchkremer, R Kiesslich, M Ellrichmann, S Schreiber, C Schmidt, A Stallmach, R Roehle, C Loddenkemper, S Daum, B Siegmund, M Schumann, R Ullrich

## Gut microbiota

1577 Duodenal Anaerobutyricum soehngenii infusion 6 stimulates GLP-1 production, ameliorates glycaemic control and beneficially shapes the duodenal transcriptome in metabolic syndrome subjects: a randomised double-blind placebo-controlled cross-over study A Koopen, J Witjes, K Wortelboer, S Majait, A Prodan, E Levin, H Herrema, M Winkelmeijer, S Aalvink, [] G H M Bergman, S Havik, B Hartmann, H Levels, P-O Bergh, J van Son, M Balvers, D M Bastos, E Stroes, A K Groen, M Henricsson, E M Kemper, J Holst, C M Strauch, S L Hazen, F Bäckhed, W M De Vos, M Nieuwdorp, E Rampanelli

#### MORE CONTENTS

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

This article has been made freely available online under the BMJ Journals open access scheme. OPEN ACCESS

See http://authors.bmj.com/open-access/

COPE Member since 2008

 $\sqrt{}$ 

6

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.

#### Contents

### Volume 71 Issue 8 | GUT August 2022

**1588** Deviated and early unsustainable stunted

development of gut microbiota in children with autism spectrum disorder

M Lou, A Cao, C Jin, K Mi, X Xiong, Z Zeng, X Pan, J Qie, S Qiu, Y Niu, H Liang, Y Liu, L Chen, Z Liu, Q Zhao, X Qiu, Y Jin, X Sheng, Z Hu, G Jin, J Liu, X Liu, Y Wang

## Colon

1600 Patients with mesenchymal tumours and high *Fusobacteriales* prevalence have worse prognosis in colorectal cancer (CRC) *M Salvucci, N Crawford, K Stott, S Bullman,* 

D B Longley, J H M Prehn

### **Pancreas and liver**

# **1613** Histone H3K27 demethylase KDM6A is an

epigenetic gatekeeper of mTORC1 signalling in cancer

S Revia, A Seretny, L Wendler, A Banito, C Eckert, K Breuer, A Mayakonda, P Lutsik, M Evert, S Ribback, S Gallage, I Chikh Bakri, K Breuhahn, P Schirmacher, S Heinrich, M M Gaida, M Heikenwälder, D F Calvisi, C Plass, S W Lowe, D F Tschaharganeh

## Hepatology

# **1629** Discontinuation of nucleot(s)ide analogue therapy in HBeAg-negative chronic hepatitis B:

a meta-analysis

S A L Hall, S Vogrin, O Wawryk, G S Burns, K Visvanathan, V Sundararajan, A Thompson

#### 1642 MicroRNA-206 promotes the recruitment of

CD8<sup>+</sup> T cells by driving M1 polarisation of

OPEN ACCESS Kupffer cells

N Liu, X Wang, C J Steer, G Song

**1656** Lineage tracing and single-cell analysis reveal proliferative Prom1 + tumour-propagating cells and their dynamic cellular transition during liver cancer progression

L Zhou, K HO Yu, T L Wong, Z Zhang, C H Chan, J HC Loong, N Che, H J Yu, K V Tan, M Tong, E S Ngan, J WK Ho, S Ma

### **Recent advances in basic science**

**1669** Clinical relevance of biomarkers in cholangiocarcinoma: critical revision and future

directions

R I R Macias, V Cardinale, T J Kendall, M A Avila, M Guido, C Coulouarn, C Braconi, A E Frampton, J Bridgewater, D Overi, S P Pereira, M Rengo, J N Kather, A Lamarca, F Pedica, A Forner, J W Valle, E Gaudio, D Alvaro, J M Banales, G Carpino

## JournalScan

**1684** GI highlights from the literature *P J Smith* 

# **PostScript**

1686 Letters

# Editor's quiz: GI snapshot

**1550** Unusual cause of abdominal pain and papule *H Zhou, F Chen, J Wang, X Liu, J Liang* 

## **Electronic pages**

- e8 Correction: Comparison between non-pulmonary and pulmonary immune responses in a HIV decedent who succumbed to COVID-19
- e9 Correction: Residual SARS-CoV-2 viral antigens detected in GI and hepatic tissues from five recovered patients with COVID-19