

Beautiful Fountain near the iconic Canton Tower Guangzhou, China. Read in this issue the great paper by Bu et al reporting how high-fat diet promotes liver tumorigenesis

An international journal of gastroenterology and hepatology

**Impact Factor: 24.5** 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** 

Matias A Avila (Spain) Guy Boeckxstaens (Belgium) Michael Camilleri (USA) Patrice Cani (Belgium) Jean-Francois Dufour (Switzerland) Thomas Gress (Germany) Christian Jobin (USA) Julia Mayerle (Germany) Markus Neurath (Germany) Siew C Ng (Hong Kong) Francisco Real (Spain) Robert Thimme (Germany) Herbert Tilg (Austria) Jun Yu (Hong Kong) Fabien Zoulim (France)

Artificial Intelligence/ **Machine Learning Editor** Akbar Waljee (USA)

#### Statistics Editors

Ruben Hernaez (USA) Susan Hutfless (USA)

#### **Editorial Office**

**RMJ 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. Variya yi ilinimization in wilinit meg utose a criegi, Acceptance of advertising by Guf does not imply endorsement. Neither BSG nor BMJ Publishing Group Limited shall have any liability for any loss, injury or damage howsoever arising from Guf (except for liability which cannot be legally excluded).

Copyright © 2024 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 Container Inc., 190-15, 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.

#### **Commentaries**

**1045** It is in the matrix: a molecular clue to fibro-stenotic Crohn's disease T E Adolph

1046 High-fat diet-induced AKT-palmitoylation in hepatocellular carcinoma: a breakthrough mechanistic investigation C R Keating, D F Calvisi, W Qiu

# **Endoscopy news**

1049 Prophylactic underwater vessel coagulation for submucosal endoscopy

> A Capogreco, C Hassan, F De Blasio, D Massimi, R de Sire, P Alessia Galtieri, E John Despott, A Alkandari, P Bhandari, A Facciorusso, R Maselli,

#### Guideline

**1052** The use of faecal microbiota transplant as treatment for recurrent or refractory Clostridioides difficile infection and other potential indications: second edition of joint British Society of Gastroenterology (BSG) and Healthcare Infection Society (HIS)

> BH Mullish, B Merrick, MN Quraishi, A Bak, CA Green, DJ Moore, RJ Porter, NT Elumogo, JP Segal, N Sharma, B Marsh, G Kontkowski, S E Manzoor, A L Hart, C Settle, J J Keller, P Hawkey, T H Igbal, SD Goldenberg, HRT Williams

### **Oesophagus**

1076 Novel transcriptomic panel identifies



histologically active eosinophilic oesophagitis E Gueguen, Y Morsy, C Mamie, A Schoepfer, C Saner,

L Biedermann, A Straumann, A Kreienbühl, Swiss EoE Cohort Study Group, M Scharl, M Wawrzyniak

# **Gut microbiota**



**1087** Compared to histamine-2 receptor antagonist, proton 6 pump inhibitor induces stronger oral-to-gut microbial transmission and gut microbiome alterations: a randomised controlled trial

I Zhu, C Sun, M Li, G Hu, X-M Zhao, W-H Chen

**1098** Proton pump inhibitors alter gut microbiota by promoting oral microbiota translocation: a prospective interventional study X Xiao, X Zhang, J Wang, Y Liu, H Yan, X Xing,

# Inflammatory bowel disease

1110 Milk fat globule-epidermal growth factor 8 (MFGE8) prevents intestinal fibrosis

S Lin, I Wang, P K Mukherjee, R Mao, G West, D Czarnecki, S Zhao, O T Neuven, M Elias, W.J. Massey, W.Liu, Y. Wang, A. Prasad, S. Banerjee, I Goren, J Chandra, HTLe, D Dejanovic, J Li, M Chen, S Holubar, M Olman, B Southern, S Hu, I O Gordon, K Atabai, C Fiocchi, F Rieder

### Coeliac disease

1124 New entity of adult ultra-short coeliac disease: the first international cohort and case-control study

S A Raju, E A Greenaway, A Schiepatti, G Arpa, N Vecchione, CL Jian, C Grobler, M Maregatti, O Green, F I Bowker-Howell, M G Shiha, H A Penny, S S Cross, C Ciacci, K Rostami, S Ahmadipour, A Moradi, M Rostami-Nejad, F Biagi, U Volta, M Fiorentino, B Lebwohl, P HR Green, S Lewis, J Molina-Infante, P Mata-Romero, V Vaira, L Elli, I Soykan, A Ensari, D S Sanders

#### **Pancreas**

**1131** Absence of a pancreatic microbiome in intraductal papillary mucinous neoplasm

OPEN ACCESS M-M Pust, D M Rocha Castellanos, K Rzasa, A Dame, G Pishchany, C Assawasirisin, A Liss, C Fernandez-del Castillo, R J Xavier

**1142** Pancreas-directed AAV8-hSPINK1 gene therapy safely and effectively protects against pancreatitis

> Y-C Wang, X-T Mao, C Sun, Y-H Wang, Y-Z Zheng, S-H Xiong, M-Y Liu, S-H Mao, Q-W Wang, G-X Ma, D Wu, Z-S Li, I-M Chen, W-B Zou, Z Liao

> > 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



# **Hepatology**

**1156** High-fat diet promotes liver tumorigenesis via palmitovlation and activation of AKT

L Bu, Z Zhang, J Chen, Y Fan, J Guo, Y Su, H Wang, X Zhang, X Wu, Q Jiang, B Gao, L Wang, K Hu, X Zhang, W Xie, W Wei, M Kuang, J Guo

# **1169** HBV integrations reshaping genomic structures promote hepatocellular carcinoma

. Z Qian, J Liang, R Huang, W Song, J Ying, X Bi, J Zhao, Z Shi, W Liu, J Liu, Z Li, J Zhou, Z Huang, Y Zhang, D Zhao, J Wu, L Wang, X Chen, R Mao, Y Zhou, L Guo, H Hu, D Ge, X Li, Z Luo, J Yao, T Li, Q Chen, B Wang, Z Wei, K Chen, C Qu, J Cai, Y Jiao, L Bao, H Zhao

1183 Clinical, experimental and pathophysiological effects of Yaq-001: a non-absorbable, gut-restricted adsorbent in models and patients with cirrhosis

I Liu, I MacNaughtan, A J C Kerbert, T Portlock, J Martínez Gonzalez, Y Jin, F Clasen, A Habtesion, H Ji, Q Jin, A Phillips, F De Chiara, G Ingavle, C Jimenez, G Zaccherini, K Husi, M A Rodriguez Gandia, P Cordero, J Soeda, L McConaghy, J Oben, K Church, J V Li, H Wu, A Jalan, P Gines, E Solà, S Eaton, C Morgan, M Kowalski, D Green, A Gander, L A Edwards, I I Cox, H Cortez-Pinto, T Avery, R Wiest, F Durand, P Caraceni, R Elosua, I Vila, M Pavesi, V Arroyo, N Davies, R P Mookerjee, V Vargas, S Sandeman, G Mehta, S Shoaie, J Marchesi, A Albillos, F Andreola, R Jalan

# **Recent advances in clinical practice**

**1199** Postprandial symptoms in disorders of gut-brain interaction and their potential as a treatment

A C Ford, H M Staudacher, N I Talley

### **JournalScan**

**1212** Gl highlights from the literature P I Smith

# **PostScript**

1214 Letters



### Editor's quiz: GI snapshot

**1086** Rare complication of peptic ulcer disease A Narendren, A H Tsoi, A Igbal, S Glance

### Electronic page

Correction: Wnt signalling modulates transcribed-ultraconserved regions in hepatobiliary cancers