



The beautiful New Town Hall and St. Mary's Column at the Marienplatz in Munich, Bavaria, Germany. Read in this issue the landmark consensus report by Zoniak *et al* on the definition of sludge and microolithiasis as a possible cause of pancreatitis.

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)  
 Mingyang Song (USA)

**Editorial Office**  
*Gut*  
 BMJ Journals  
 BMA House, Tavistock Square  
 London, WC1H 9JR, UK  
 E: [info.gut@bmj.com](mailto: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** © 2023 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**

- 1805** BSG guidelines on faecal immunochemical testing: are they 'FIT' for purpose?  
*C J Rees, W Hamilton*
- 1806** Multiple inflammatory mechanisms in eosinophilic oesophagitis make it unlikely that single pathway inhibition by monoclonal biological therapies would succeed  
*S E Aitwood*
- 1808** Is HBx protein the X factor in the pathogenesis of IBD?  
*I Mukhopadhyay*
- 1809** Obesity promotes a leaky gut, inflammation and pre-diabetes by lowering gut microbiota that metabolise ethanolamine  
*H Fang, R R e-Lacerda, J D Schertzer*
- 1811** MicroRNA-223: a key regulator of liver tumour microenvironment  
*M A Avila*
- 1812** New insights into an old paradigm: why IgA accumulates in alcoholic liver disease and what could be its role  
*D Ciocan, W Turpin*
- 1814** Enolase: a metabolic checkpoint behind diverse exhaustion stages of CD8+ T cells in chronic HBV and HCV  
*N Le Bert, P Fiscaro*

**Endoscopy news**

- 1816** Assessment of the yearly carbon emission of a gastrointestinal endoscopy unit  
*D Henniger, M Windsheimer, H Beck, M Brand, T Lux, A Hann, A Meining*

**Oesophagus**

- 1819** Psychological symptoms do not discriminate between reflux phenotypes along the organic-functional refractory GERD spectrum  
*A Geeraerts, L Guadagnoli, A Pauwels, H Geysen, T Neyens, L Van Oudenhove, T Vanuytsel, J Tack*
- 1828** Mepolizumab for treatment of adolescents and adults with eosinophilic oesophagitis: a multicentre, randomised, double-blind, placebo-controlled clinical trial  
*E S Dellon, K A Peterson, B L Mitylmg, A Iuga, C E Bookhout, L M Cortright, K B Walker, T S Gee, S J McGee, B A Cameron, J A Galanko, J T Woosley, S Eluri, S E Moist, I Hirano*

**Inflammatory bowel disease**

- 1838** Gut virome-colonising *Orthohepadnavirus* genus is associated with ulcerative colitis pathogenesis and induces intestinal inflammation *in vivo*  
*L Massimino, O Palmieri, A Facchetti, D Fuggetta, S Spanò, L A Lamparelli, S D'Alessio, S Cagliani, F Furfaro, F D'Amico, A Zilli, G Fiorino, T L Parigi, D Noviello, A Latiano, F Bossa, T Latiano, A Pirola, L Mologni, R G Piazza, D Abbatì, F Perri, C Bonini, L Peyrin-Biroulet, A Malesci, V Jairath, S Danese, F Ungaro*

**Gut microbiota**

- 1848** A mechanism by which gut microbiota elevates permeability and inflammation in obese/diabetic mice and human gut  
*S P Mishra, B Wang, S Jain, J Ding, J Rejeski, C M Furdul, D W Kitzman, S Taraphder, C Brechot, A Kumar, H Yadav*

**Endoscopy**

- 1866** Technical performance and diagnostic yield of motorised spiral enteroscopy compared with single-balloon enteroscopy in suspected Crohn's disease: a randomised controlled, open-label study (the MOTOR-CD trial)  
*P Pal, M Ramchandani, R Banerjee, P Viswakarma, A P Singh, M Reddy, H Rughwani, R Patel, A Sekaran, S Kanaganti, S Darisetty, Z Nabi, J Singh, R Gupta, S Lakhtakia, R Pradeep, G Venkat Rao, M Tandan, D N Reddy*
- 1875** Treatment of adenoma recurrence after endoscopic mucosal resection  
*D J Tate, L Desomer, M E Argenziano, N Mahajan, M Sidhu, S Vosko, N Shahidi, E Lee, S J Williams, N G Burgess, M J Bourke*

**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  
 JM00004

This journal is a member of and subscribes to the principles of the Committee on Publication Ethics  
[www.publicationethics.org](http://www.publicationethics.org)



When you have finished with this magazine please recycle it.

Gut: first published as on 1 October 2023. Downloaded from <http://gut.bmj.com/> on September 27, 2023 by guest. Protected by copyright.

**Colon**

- 1887** Revealing and harnessing CD39 for the treatment of colorectal cancer and liver metastases by engineered T cells  
*A Potenza, C Balestrieri, M Spiga, L Albarello, R Benamouzig, S Benton, P M M Bossuyt, L Caro, B Carvalho, H-M Chiu, V M H Coupé, W de Klaver, C M de Klerk, E Dekker, S Dolwani, C G Fraser, W Grady, L Guittet, S Gupta, S P Halloran, U Haug, G Hoff, S Itzkowitz, T Kortlever, A Koulaouzidis, U Ladabaum, B Lauby-Secretan, M Leja, B Levin, T R Levin, F Macrae, G A Meijer, J Melson, C O'Morain, S Parry, L Rabeneck, D F Ransohoff, R Sáenz, H Saito, S Sanduleanu-Dascalescu, R E Schoen, K Selby, H Singh, R J C Steele, J J Y Sung, E L Symonds, S J Winawer, Members of the World Endoscopy Colorectal Cancer Screening New Test Evaluation Expert Working Group*

- 1904** An efficient strategy for evaluating new non-invasive screening tests for colorectal cancer: the guiding principles



*R S Bresalier, C Senore, G P Young, J Allison, R Benamouzig, S Benton, P M M Bossuyt, L Caro, B Carvalho, H-M Chiu, V M H Coupé, W de Klaver, C M de Klerk, E Dekker, S Dolwani, C G Fraser, W Grady, L Guittet, S Gupta, S P Halloran, U Haug, G Hoff, S Itzkowitz, T Kortlever, A Koulaouzidis, U Ladabaum, B Lauby-Secretan, M Leja, B Levin, T R Levin, F Macrae, G A Meijer, J Melson, C O'Morain, S Parry, L Rabeneck, D F Ransohoff, R Sáenz, H Saito, S Sanduleanu-Dascalescu, R E Schoen, K Selby, H Singh, R J C Steele, J J Y Sung, E L Symonds, S J Winawer, Members of the World Endoscopy Colorectal Cancer Screening New Test Evaluation Expert Working Group*

**Pancreas**

- 1919** Consensus definition of sludge and microlithiasis as a possible cause of pancreatitis



*M Żorniak, S Sirtl, G Beyer, U M Mahajan, K Breithauer, J Schirra, C Schulz, T Kohlmann, M M Lerch, J Mayerle, The LMU Microlithiasis Expert Survey Team*

- 1927** Mature tertiary lymphoid structures are key niches of tumour-specific immune responses in pancreatic ductal adenocarcinomas  
*G S Kinker, G A F Vitiello, A B Diniz, M P Cabral-Piccin, P H B Pereira, M L R Carvalho, W A S Ferreira, A S Chaves, A Rondinelli, A F Gusmão, A Defêlicibus, G O dos Santos, W A Nunes, L C L Claro, T M Bernardo, R T Nishio, A M Pacheco, A C Laus, L M R B Arantes, J L Fleck, V H F de Jesus, A de Moricz, R Weinlich, F J F Coimbra, V C C de Lima, T d S Medina*

**Hepatology**

- 1942** MicroRNA-223 attenuates hepatocarcinogenesis by blocking hypoxia-driven angiogenesis and immunosuppression  
*Y Fu, B Mackowiak, D Feng, H Lu, Y Guan, T Lehner, H Pan, X W Wang, Y He, B Gao*
- 1959** Hepatic plgR-mediated secretion of IgA limits bacterial translocation and prevents ethanol-induced liver disease in mice  
*T Hendriks, S Lang, D Rajcic, Y Wang, S McArdle, K Kim, Z Mikulski, B Schnabl*
- 1971** Enolase represents a metabolic checkpoint controlling the differential exhaustion programmes of hepatitis virus-specific CD8<sup>+</sup> T cells  
*F Winkler, A V Hipp, C Ramirez, B Martin, M Villa, E Neuwirt, O Gorke, J Aerssens, S E Johansson, N Rana, S Llewellyn-Lacey, D A Price, M Panning, O Groß, E L Pearce, C M Hermann, K Schumann, L Hannibal, C Neumann-Haefelin, T Boettler, P Knolle, M Hofmann, D Wohlleber, R Thimme, B Bengsch*

**Recent advances in clinical practice**

- 1985** Drug rediscovery in gastroenterology: from off-label to on-label use of thioguanine in inflammatory bowel disease  
*N K H de Boer, M Simsek, B Meijer, M F Neurath, A van Bodegraven, C J J Mulder*

**JournalScan**

- 1992** GI highlights from the literature  
*P J Smith*

**PostScript**

- 1995** Letters

**Editor's quiz: GI snapshot**

- 1918** Bad gut feeling: a case of recurrent abdominal pain in a young man  
*S Celaj, H Singh*

**Electronic page**

- e3** Correction: *P150 Adult menetrier's disease: a clinical profile and systematic review of published cases*