

The Henry Whitfield Museum, built in 1639, is the oldest house in Connecticut and a short distance from the campus of Yale University. Read in this issue the great work by Takeuchi et al exploring the role of neutrophils in alcoholic hepatitis.

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 (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 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 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 © 2021 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.

Commentary

229 Hepatitis B vaccine and NK cells: a new player in memory
 *M Hofmann, R Thimme*


Endoscopy news

231 Is it time to consider prophylactic appendectomy in patients with serrated polyposis syndrome undergoing surveillance?
O McKay, N Shahidi, S Gupta, W A van Hattem, T El-Khoury, M J Bourke


Oesophagus

234 International trends in oesophageal cancer survival by histological subtype between 1995 and 2014
E Morgan, I Soerjomataram, A T Gavin, M J Rutherford, P Gatenby, A Bardot, J Ferlay, O Bucher, P De, G Engholm, C Jackson, S Kozie, A Little, B Møller, L Shack, H Tervonen, V Thursfield, S Vernon, P M Walsh, R R Woods, C Finley, N Merrett, D L O'Connell, J V Reynolds, F Bray, M Arnold

Stomach

243 Mass eradication of *Helicobacter pylori* to reduce gastric cancer incidence and mortality: a long-term cohort study on Matsu Islands
 *T-H Chiang, W-J Chang, S L-S Chen, A M-F Yen, J C-Y Fann, S Y-H Chiu, Y-R Chen, S-L Chuang, C-F Shieh, C-Y Liu, H-M Chiu, H Chiang, C-T Shum, M-W Lin, M-S Wu, J-T Lin, C-C Chan, D Y Graham, H-H Chen, Y-C Lee*


Endoscopy

251 Effectiveness of one-time endoscopic screening programme in prevention of upper gastrointestinal cancer in China: a multicentre population-based cohort study
 *R Chen, Y Liu, G Song, B Li, D Zhao, Z Hua, X Wang, J Li, C Hao, L Zhang, S Liu, J Wang, J Zhou, Y Zhang, B Li, Y Li, X Feng, L Li, Z Dong, W Wei, G Wang*


261 Motorised spiral enteroscopy: first prospective clinical feasibility study
T Beyna, M Arvanitakis, M Schneider, C Gerges, D Böing, J Devière, H Neuhaus

268 Designs of colonoscopic adenoma detection trials: more positive results with tandem than with parallel studies - an analysis of studies on imaging techniques and mechanical devices
K Zimmermann-Fraedrich, H Pohl, T Rösch, D K Rex, C Hassan, E Dekker, M F Kaminski, M Bretthauer, J de Heer, Y Werner, G Schachschal, S Groth

COVID-19

276 Depicting SARS-CoV-2 faecal viral activity in association with gut microbiota composition in patients with COVID-19
 *T Zuo, Q Liu, F Zhang, G C-Y Lui, E YK Tso, Y K Yeoh, Z Chen, S S Boon, FKL Chan, P KS Chan, S C Ng*

Inflammatory bowel disease

285 Whole exome sequencing analyses reveal gene-microbiota interactions in the context of IBD
 *S Hu, A Vich Vila, R Gacesa, V Collij, C Stevens, J M Fu, I Wong, M E Talkowski, M A Rivas, F Imhann, L Bohte, H van Dullemen, G Dijkstra, M C Visschedijk, E A Festen, R J Xavier, J Fu, M J Daly, C Wijmenga, A Zernakova, A Kurilshikov, R K Weersma*

297 Inflammatory bowel disease and risk of small bowel cancer: a binational population-based cohort study from Denmark and Sweden
J E Axelrad, O Olén, M C Sachs, R Erichsen, L Pedersen, J Halfvarson, J Askling, A Ekbom, H T Sørensen, J F Ludvigsson

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
 JMD0004

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



When you have finished with this magazine please recycle it.

Gut microbiota

- 309** Metagenomics analysis of gut microbiota in response to diet intervention and gestational diabetes in overweight and obese women: a randomised, double-blind, placebo-controlled clinical trial

K Mekkala, N Paulin, N Houttu, E Koivuniemi, O Pellonperä, S Khan, S Pietilä, K Terti, L L Elo, K Laitinen

Pancreas

- 319** Deciphering the complex interplay between pancreatic cancer, diabetes mellitus subtypes and obesity/BMI through causal inference and mediation analyses

E Molina-Montes, C Coscia, P Gómez-Rubio, A Fernández, R Boenink, M Rava, M Márquez, X Molero, M Löhr, L Sharp, C W Michalski, A Farré, J Perea, M O'Rourke, W Greenhalf, M Iglesias, A Tardón, T M Gress, V M Barberá, T Crnogorac-Jurcevic, L Muñoz-Bellvís, J E Dominguez-Muñoz, H Renz, J Balcells, E Costello, L Ilzarbe, J Kleeff, B Kong, J Mora, D O'Driscoll, I Poves, A Scarpa, J Yu, M Hidalgo, R T Lawlor, W Ye, A Carato, F X Real, N Malats, On behalf of the PanGenEU Study Investigators

- 330** Interleukin-1 β -induced pancreatitis promotes pancreatic ductal adenocarcinoma via B lymphocyte-mediated immune suppression

R Takahashi, M Macchini, M Sunagawa, Z Jiang, T Tanaka, G Valentí, B W Renz, R A White, Y Hayakawa, C B Westphalen, Y Taylor, A C Iuga, T A Gonda, J Genkinger, K P Olive, T C Wang

Hepatology

- 342** Neutrophils interact with cholangiocytes to cause cholestatic changes in alcoholic hepatitis



M Takeuchi, P T Vidigal, M T Guerra, M A Hundt, M E Robert, M Olave-Martinez, S Aoki, T Khamphaya, R Kersten, E Kruglov, R de la Rosa Rodriguez, J M Banales, M H Nathanson, J Weerachayaphorn

- 357** HBV vaccination and HBV infection induces HBV-specific natural killer cell memory

R S Wijaya, S A Read, N R Truong, S Han, D Chen, H Shahidipour, N L Fewings, S Schibeci, M K Azardaryany, G P Parnell, D Booth, D van der Poorten, R Lin, J George, M W Douglas, G Ahlenstiel

- 370** No difference in hepatocellular carcinoma risk between chronic hepatitis B patients treated with entecavir versus tenofovir

F Su, K Berry, G N Ioannou

- 379** Differential inflammasome activation predisposes to acute-on-chronic liver failure in human and experimental cirrhosis with and without previous decompensation



S Monteiro, J Grandt, F E Uschner, N Kimer, J L Madsen, R Schierwagen, S Klein, C Welsch, L Schäfer, C Jansen, J Claria, J Alcaraz-Quiles, V Arroyo, R Moreau, J Fernandez, F Bendtsen, G Mehta, L L Gluud, S Møller, M Praktikeno, J Trebicka

- 388** Epigenetic mechanisms and metabolic reprogramming in fibrogenesis: dual targeting of G9a and DNMT1 for the inhibition of liver fibrosis

M Barcena-Varela, H Paish, L Alvarez, I Uriarte, M U Latasa, E Santamaria, M Recalde, M Garate, A Claveria, L Colyn, M Arechederra, M J Iraburu, M Milkievicz, P Milkievicz, B Sangro, S M Robinson, J French, A Pardo-Saganta, J Oyarzabal, F Prosper, K Rombouts, F Oakley, J Mann, C Berasain, M A Avila, M G Fernandez-Barrena

- 401** Hepatocellular carcinoma tumour volume doubling time: a systematic review and meta-analysis

P Nathani, P Gopal, N Rich, A Yopp, T Yokoo, B John, J Marrero, N Parikh, A G Singal

Recent advances in basic science

- 408** Inflammatory bowel disease and Parkinson's disease: common pathophysiological links

H-S Lee, E Lobbstaal, S Vermeire, J Sabino, I Cleynen

Recent advances in clinical practice

- 418** Endoscopy and central reading in inflammatory bowel disease clinical trials: achievements, challenges and future developments



K Gottlieb, M Daperno, K Usiskin, B E Sands, H Ahmad, C W Howden, W Karnes, Y S Oh, I Modesto, C Marano, R W Stidham, W Reinisch

JournalScan

- 427** GI highlights from the literature

P J Smith

PostScript

- 429** Letters

**Editor's quiz: GI snapshot**

- 233** Colonic strictures mimicking Crohn's disease

K Takenaka, M Kimura, K Ohtsuka