

The beautiful Paynes Prairie Preserve State Park in Gainesville, Florida. Please see in this issue the stellar work by He *et al.*

An international journal of gastroenterology and hepatology

Impact Factor: 17.016

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 Avila (Spain)

Guy Boeckxstaens (Belgium)

Patrice Cani (Belgium)

Jean-Francois Dufour (Switzerland)

Thomas Gress (Germany)

Arthur Kaser (UK)

Ernst Kuipers (The Netherlands)

Siew C Ng (Hong Kong)

Herbert Tilg (Austria)

Fabien Zoulim (France)

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: Gut is owned and published by BMJ Publishing Group Ltd, a wholly owned subsidiary of the British Medical Association and the British Society of Gastroenterology. The owners grant editorial freedom to the Editor of Gut. Gut follows guidelines on editorial independence produced by the World Association of Medical Editors and the code on good publication practice of the Committee on Publication Ethics.

Gut is intended for medical professionals and is provided without warranty, express or implied. Statements in the Journal are the responsibility of their authors and advertisers and not authors' institutions, the BMJ Publishing Group, the British Society of Gastroenterology or the BMA unless otherwise specified or determined by law. Acceptance of advertising does not imply endorsement.

To the fullest extent permitted by law, the BMJ Publishing Group shall not be liable for any loss, injury or damage resulting from the use of Gut or any information in it whether based on contract, tort or otherwise. Readers are advised to verify any information they choose to rely on.

Copyright © 2019 BMJ Publishing Group Ltd and British Society of Gastroenterology. All rights reserved; no part of this publication may be reproduced, stored in a retrieval system or transmitted in any form or by any means, electronic, mechanical, photocopying, recording or otherwise without prior 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 (ISSN: 0017-5749) is published monthly by BMJ Publishing Group and is distributed in the USA by Air Business Ltd. Periodicals postage paid at Jamaica NY 11431 POSTMASTER: send address changes to Gut, Air Business Ltd, c/o Worldnet Shipping Inc., 156-15, 146th Avenue, 2nd Floor, Jamaica, NY 11434, USA.

Commentaries

211 Unfolding the mystery of digestive enzyme misfolding in chronic pancreatitis
J Rosendahl

212 How infectious is the hepatitis B virus? Readings from the occult
S Locarnini, G Raimondo

213 β -catenin oncogenic activation rewires fatty acid catabolism to fuel hepatocellular carcinoma
A Montagner, L Le Cam, H Guillou

Guidelines

216 An Asian consensus on standards of diagnostic upper endoscopy for neoplasia

P W Y Chiu, N Uedo, R Singh, T Gotoda, E K W Ng, K Yao, T L Ang, S H Ho, D Kikuchi, F Yao, R Pittayanon, K Goda, J Y W Lau, H Tajiri, H Inoue

Oesophagus

218 Efficacy of endoscopic screening for esophageal cancer in China (ESECC): design and preliminary results of a population-based randomised controlled trial

Z He, Z Liu, M Liu, C Guo, R Xu, F Li, A Liu, H Yang, L Shen, Q Wu, L Duan, X Li, C Zhang, Y Pan, H Cai, Y Ke

Stomach

217 Human gastric cancer modelling using organoids

T Seidlitz, S R Merker, A Rothe, F Zakrzewski, C von Neubeck, K Grützmann, U Sommer, C Schweitzer, S Schölch, H Uhlemann, A-M Gaebler, K Werner, M Krause, G B Baretton, T Welsch, B-K Koo, D E Aust, B Klink, J Weitz, D E Stange

Inflammatory bowel disease

218 Fetal and early life antibiotics exposure and very early onset inflammatory bowel disease: a population-based study

A K Örtqvist, C Lundholm, J Halfvarson, J F Ludvigsson, C Almqvist

226 Developing a core outcome set for fistulising perianal Crohn's disease

K Sahnan, P J Tozer, S O Adegbola, M J Lee, N Heywood, A G K McNair, D Hind, N Yassin, A J Lobo, S R Brown, S Sebastian, R K S Phillips, P F C Lung, O D Faiz, K Crooke, S Blackwell, A Verjee, A L Hart, N S Fearnhead, the ENiGMA collaborators

239 Azithromycin and metronidazole versus metronidazole-based therapy for the induction of remission in mild to moderate paediatric Crohn's disease: a randomised controlled trial
A Levine, M Kori, J Kierkus, R Sigall Boneh, M Sladek, J C Escher, E Wine, B Yerushalmi, J Amil Dias, R Shaoul, G Veereman Wauters, M Boaz, G Abitbol, A Bousvaros, D Turner

Gut microbiota

248 Gut commensal *Parabacteroides goldsteinii* plays a predominant role in the anti-obesity effects of polysaccharides isolated from *Hirsutella sinensis*
T-R Wu, C-S Lin, C-J Chang, T-L Lin, J Martel, Y-F Ko, D M Ojcius, C-C Lu, J D Young, H-C Lai

263 Gut microbiota metabolites, amino acid metabolites and improvements in insulin sensitivity and glucose metabolism: the POUNDS Lost trial

Y Heianza, D Sun, X Li, J A DiDonato, G A Bray, F M Sacks, L Qi

Endoscopy

271 Multicentre prospective evaluation of real-time optical diagnosis of T1 colorectal cancer in large non-pedunculated colorectal polyps using narrow band imaging (the OPTICAL study)

Y Backes, M P Schwartz, F ter Borg, F H J Wolfhagen, J N Groen, W H de Vos tot Nederveen Cappel, J van Bergeijk, J M J Geesing, B W M Spanier, P Didden, F P Vleggaar, M M Lacle, S G Elias, L M G Moons, on behalf of the Dutch T1 CRC Working Group

280 Improved adenoma detection with Endocuff Vision: the ADENOMA randomised controlled trial

W S Ngu, R Bevan, Z P Tsiamoulos, P Bassett, Z Hoare, M D Rutter, G Clifford, N Totton, T J Lee, A Ramadas, J G Silcock, J Painter, L J Neilson, B P Saunders, C J Rees

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

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



When you have finished with this magazine please recycle it.


Colon


- 289** *Campylobacter jejuni* promotes colorectal tumorigenesis through the action of cytolethal distending toxin
 OPEN ACCESS
 EDITOR'S CHOICE
Z He, R Z Gharaibeh, R C Newsome, J L Pope, M W Dougherty, S Tomkovich, B Pons, G Mirey, J Vignard, D R Hendrixson, C Jobin

Pancreas

- 301** Human *CPA1* mutation causes digestive enzyme misfolding and chronic pancreatitis in mice
E Hegyi, M Sahin-Tóth

Hepatology

- 313** Multiple HBV transfusion transmissions from undetected occult infections: revising the minimal infectious dose
D Candotti, S M Assenato, S Laperche, J-P Allain, S Levicnik-Stezinar
- 322** β -catenin-activated hepatocellular carcinomas are addicted to fatty acids
N Senni, M Savall, D Cabrerizo Granados, M-C Alves-Guerra, C Sartor, I Lagoutte, A Gougelet, B Terris, H Gilgenkrantz, C Perret, S Colnot, P Bossard
- 335** Immune activation underlies a sustained clinical response to Yttrium-90 radioembolisation in hepatocellular carcinoma
 OPEN ACCESS
V Chew, Y H Lee, L Pan, N J M Nasir, C J Lim, C Chua, L Lai, S N Hazirah, T K H Lim, B K P Goh, A Chung, R H G Lo, D Ng, R L F Filarca, S Albani, P K H Chow

- 347** Tonicity-responsive enhancer-binding protein promotes hepatocellular carcinogenesis, recurrence and metastasis
 OPEN ACCESS
J H Lee, J H Suh, S Y Choi, H J Kang, H H Lee, B J Ye, G R Lee, S W Jung, C J Kim, W Lee-Kwon, J Park, K Myung, N H Park, H M Kwon

Recent advances in basic science

- 359** Small metabolites, possible big changes: a microbiota-centered view of non-alcoholic fatty liver disease
H Chu, Y Duan, L Yang, B Schnabl


JournalScan

- 371** GI highlights from the literature
M H McLean

PostScript

- 373** Letters
 OPEN ACCESS

Miscellaneous

- 380** Correction: *Asia-Pacific working group consensus on non-variceal upper gastrointestinal bleeding: an update 2018*
 OPEN ACCESS

Editor's quiz: GI snapshot

- 206** Case of nasogastric tube dysfunction
F Rainer, G Prenner, L P Binder, P Fickert, J Plank