

Caption: Night view of the beautiful skyline of Chicago downtown. The *Gut* family wish everyone a very successful DDW meeting in Chicago.

An international journal of gastroenterology and hepatology Impact Factor: 10.732 Editor Emad EI-Omar (UK)

Deputy Editor (Hepatology) Alexander Gerbes (Germany) Deputy Editor (Luminal Gastroenterology) William Grady (USA)

Deputy Editor (Endoscopy) Thomas Rösch (Germany)

Associate Editors Matias Avila (Spain) Martin Blaser (USA) Guy Boeckxstaens (Belguim) Thomas Gress (Germany) Arthur Kaser (UK) Ernst Kuipers (The Netherlands) Julian Panes (Spain) Herbert Tilg (Austria) Fabien Zoulim (France)

Editorial Office

Gut BMJ Journals BMA House, Tavistock Square London, WC1H 9JR, UK T: +44 (0)20 7383 6394 F: +44 (0)20 7383 6668 E: guteditorial@bmjgroup.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 6u 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 © 2014 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 Techset 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

Contents

- **705** Oesophageal mucosal barrier: a key factor in the pathophysiology of non-erosive reflux disease (NERD) and a potential target for treatment *P Woodland, D Sifrim*
- **706** The antidiabetic gutsy role of metformin uncovered?
- **707** Fbxw7 hotspot mutations and human colon cancer: mechanistic insights from new mouse models *J E Grim*

709 Editing liver tumours S Colnot, P Fortes

Original articles Oesophagus

- 711 Nrf2 deficiency impairs the barrier function of mouse oesophageal epithelium *H Chen, Y Hu, Y Fang, Z Djukic, M Yamamoto, N J Shaheen, R C Orlando, X Chen*
- **720** Impact of regurgitation on health-related quality of life in gastro-oesophageal reflux disease before and after short-term potent acid suppression therapy

P J Kahrilas, A Jonsson, H Denison, B Wernersson, N Hughes, C W Howden

Gut microbiota

727 An increase in the *Akkermansia* spp. population induced by metformin treatment improves glucose homeostasis in diet-induced obese mice *N-R Shin, J-C Lee, H-Y Lee, M-S Kim, T W Whon, M-S Lee, J-W Bae*

Enteric infections

- 736 Shanghai fever: a distinct *Pseudomonas aeruginosa* enteric disease
- OPDNACGSS C-H Chuang, Y-H Wang, H-J Chang, H-L Chen, Y-C Huang, T-Y Lin, E A Ozer, J P Allen, A R Hauser, C-H Chiu

Neurogastroenterology

- **744** Functional bowel symptoms in quiescent inflammatory bowel diseases: role of epithelial barrier disruption and low-grade inflammation
 - M Vivinus-Nébot, G Frin-Mathy, H Bzioueche, R Dainese, G Bernard, R Anty, J Filippi, M C Saint-Paul, M K Tulic, V Verhasselt,
 - X Hébuterne, T Piche

753 Characterisation of faecal protease activity in irritable bowel syndrome with diarrhoea: origin and effect of gut transit

D Tooth, K Garsed, G Singh, L Marciani, C Lam, I Fordham, A Fields, R Banwait, M Lingaya, R Layfield, M Hastings, P Whorwell, R Spiller

Inflammatory bowel disease

- 761 Colonic mucosa-associated diffusely adherent
- **afaC+** *Escherichia coli* expressing *lpfA* and *pks*
- of are increased in inflammatory bowel disease and colon cancer

M Prorok-Hamon, M K Friswell, A Alswied, C L Roberts, F Song, P K Flanagan, P Knight, C Codling, J R Marchesi, C Winstanley, N Hall, J M Rhodes, B J Campbell

771 Mortality and causes of death in Crohn's disease: results from 20 years of follow-up in the IBSEN study

Ø Hovde, I Kempski-Monstad, M C Småstuen, I C Solberg, M Henriksen, J Jahnsen, N Stray, B A Moum

776 Long-term intake of dietary fat and risk of ulcerative colitis and Crohn's disease

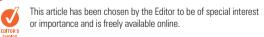
A N Ananthakrishnan, H Khalili, G G Konijeti, L M Higuchi, P de Silva, C S Fuchs, W C Willett, J M Richter, A T Chan

Endoscopy

785 Comparison of detection and miss rates of narrow band imaging, flexible spectral imaging chromoendoscopy and white light at screening colonoscopy: a randomised controlled back-to-back study

S J Chung, D Kim, J H Song, H Y Kang, G E Chung, J Choi, Y S Kim, M J Park, J S Kim

MORE CONTENTS



This article has been made freely available online under the BMJ Journals Open Access scheme.

OPEN ACCESS See http://gut.bmj.com/site/about/guidelines.xhtml#open

 $\mathbf{C} \hspace{0.1 cm} \mathbf{O} \hspace{0.1 cm} \mathbf{P} \hspace{0.1 cm} \mathbf{E}$ committee on publication ethics

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

recycle

When you have finished with his magazine please recycle

Volume 63 Issue 5 | **GUT** May 2014

Colon

- 792 Investigation of the atypical FBXW7 mutation
- Spectrum in human tumours by conditional expression of a heterozygous propellor tip missense allele in the mouse intestines

H Davis, A Lewis, A Behrens, I Tomlinson

800 Pleiotropic effects of genetic risk variants for other cancers on colorectal cancer risk: PAGE, GECCO and CCFR consortia

I Cheng, J M Kocarnik, L Dumitrescu, N M Lindor, J Chang-Claude, C L Avery, C P Caberto, S-A Love, M L Slattery, A T Chan, J A Baron, L A Hindorff, S L Park, F R Schumacher, M Hoffmeister, P Kraft, A M Butler, D J Duggan, L Hou, C S Carlson, K R Monroe, Y Lin, C L Carty, S Mann, J Ma, E L Giovannucci, C S Fuchs, P A Newcomb, M A Jenkins, J L Hopper, R W Haile, D V Conti, P T Campbell, J D Potter, B J Caan, R E Schoen, R B Hayes, S J Chanock, S I Berndt, S Küry, S Bézieau, J L Ambite, G Kumaraguruparan, D M Richardson, R I Goodloe, H H Dilks, P Baker, B W Zanke, M Lemire, S Gallinger, L Hsu, S Jiao, T A Harrison, D Seminara, C A Haiman, C Kooperberg, L R Wilkens, C M Hutter, E White, D C Crawford, G Heiss, T J Hudson, H Brenner, WS Bush, G Casev, L Le Marchand, U Peters

808 Farnesoid X receptor agonists attenuate colonic epithelial secretory function and prevent experimental diarrhoea in vivo

M S Mroz, N Keating, J B Ward, R Sarker, S Amu, G Aviello, M Donowitz, P G Fallon, S J Keely

Pancreas

818 Newly diagnosed diabetes mellitus after acute pancreatitis: a systematic review and meta-analysis

S L M Das, P P Singh, A R J Phillips, R Murphy, J A Windsor, M S Petrov

Hepatology

- 832 A disrupted RNA editing balance mediated
- by ADARs (Adenosine DeAminases that act on RNA) in human hepatocellular
 - act on RIVA carcinoma

T H M Chan, C H Lin, L Qi, J Fei, Y Li, K J Yong, M Liu, Y Song, R K K Chow, V H E Ng, Y-F Yuan, D G Tenen, X-Y Guan, L Chen

Recent advances in clinical practice

844 Hepatocellular carcinoma: clinical frontiersand perspectives

Bruix, G | Gores, V Mazzaferro

Editor's quiz: GI snapshot

856 An unusual cause of weight loss in a young Caucasian man

P Cecinato, L Fuccio, E Sabattini, L Laterza, A Caponi, F Azzaroli, G Mazzella

JournalScan

857 Gl highlights from the literature *M H McLean*

PostScript

860 Letters

