

Caption: The beautiful Leuven Town Hall at night. See inside this issue two excellent articles by researchers from Leuven

An international journal of gastroenterology and hepatology

Impact Factor: 10.732 Editor

Emad El-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) Guy Boeckxstaens (Belguim) Laurence Egan (Ireland) Thomas Gress (Germany) Ernst Kuipers (The Netherlands) Julian Panes (Spain) Herbert Tilg (Austria) Fabien Zoulim (France)

#### **Editorial Office**

**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 *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 © 2013 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.

# **Leading article**

**1523** The management of immunosuppression in patients with inflammatory bowel disease and cancer

> O Bernheim, J-F Colombel, T A Ullman, D Laharie, L Beaugerie, S H Itzkowitz

#### **Commentaries**

**1529** Carvedilol: the  $\beta$ -blocker of choice for portal hypertension? I Bosch

**1531** Moving the genetics of inflammatory bowel diseases from bench to bedside: first steps towards personalised medicine S Brand

**1534** Intestinal inflammation in postoperative ileus: pathogenesis and therapeutic targets I Rychter, P Clavé

# **Original articles** Helicobacter pylori

**1536** CagA mediates epigenetic regulation to attenuate let-7 expression in *Helicobacter* pylori-related carcinogenesis

> Y Hayashi, M Tsujii, J Wang, J Kondo, T Akasaka, Y Jin, W Li, T Nakamura, T Nishida, H Iijima, S Tsuji, S Kawano, N Hayashi, T Takehara

### **Endoscopy**

**1547** Surface maturation scoring for oesophageal squamous intraepithelial neoplasia: a novel diagnostic approach inspired by first endomicroscopic 3-dimensional reconstruction M Li, X-L Zuo, T Yu, X-M Gu, C-J Zhou, Z Li, H Liu, R Ji, Y-Y Dong, C-Q Li, Y-Q Li

### Inflammatory bowel disease

**1556** Genetic factors conferring an increased susceptibility to develop Crohn's disease also influence disease phenotype: results from the IBDchip European Project

> I Clevnen, J R González, C Figueroa, A Franke, D McGovern, M Bortlík, B I A Crusius, M Vecchi, M Artieda, M Szczypiorska, J Bethge, D Arteta, E Avala, S Danese, R A van Hogezand, J Panés, S A Peña, M Lukas, D P Jewell, S Schreiber, S Vermeire, M Sans

**1566** Diagnostic accuracy of magnetic resonance colonography for the evaluation of disease activity and severity in ulcerative colitis: a prospective study

> I Ordás, J Rimola, O García-Bosch, S Rodríguez, M Gallego, M J Etchevers, M Pellisé, F Feu, B González-Suárez, C Ayuso, E Ricart, J Panés

### **Neurogastroenterology**

**1573** A multidimensional model of psychobiological interactions in functional dyspepsia: a structural equation modelling approach

> M P Jones, E Coppens, R Vos, L Holvoet, P Luyten, J Tack, L Van Oudenhove

1581 Inhibition of spleen tyrosine kinase as treatment of postoperative ileus

> S H W van Bree, P J Gomez-Pinilla, F S van de Bovenkamp, M Di Giovangiulio, G Farro, A Nemethova, C Cailotto, W J de Jonge, K Lee, C Ramirez-Molina, D Lugo, M J Skynner, G E E Boeckxstaens, G Matteoli

### **Gut microbiota**

**1591** Gut microbiota disturbance during antibiotic therapy: a multi-omic approach

OPEN ACCESS A E Pérez-Cobas, M I Gosalbes, A Friedrichs, H Knecht, A Artacho, K Eismann, W Otto, D Rojo, R Bargiela, M von Bergen, S C Neulinger, C Däumer, F-A Heinsen, A Latorre, C Barbas, J Seifert, V M dos Santos, S J Ott, M Ferrer, A Moya

#### **Pancreas**

**1602** Comprehensive screening of chymotrypsin C (CTRC) gene in tropical calcific pancreatitis identifies novel variants

> S Paliwal, S Bhaskar, K R Mani, D N Reddy, G V Rao, S P Singh, V Thomas, G R Chandak

**1607** Treatment of relapsing autoimmune pancreatitis with immunomodulators and rituximab: the Mayo Clinic experience

> P A Hart, M D Topazian, T E Witzig, J E Clain, F C Gleeson, R R Klebig, M J Levy, R K Pearson, B T Petersen, T C Smyrk, A Sugumar, N Takahashi, S S Vege, S T Chari

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

COPECATION ETHICS

This journal is a member of and subscribes to the principles of the Committee on Publication Ethics

www.publicationethics.org.uk





**1616** Comprehensive functional analysis of chymotrypsin C (*CTRC*) variants reveals distinct loss-of-function mechanisms associated with pancreatitis risk

S Beer, J Zhou, A Szabó, S Keiles, G R Chandak, H Witt, M Sahin-Tóth

### **Hepatology**

**1625** Whole-body substrate metabolism is associated with disease severity in patients with non-alcoholic fatty liver disease

I Croci, N M Byrne, S Choquette, A P Hills, V S Chachay, A D Clouston, T M O'Moore-Sullivan, G A Macdonald, J B Prins, I J Hickman

1634 Carvedilol for primary prophylaxis of variceal bleeding in cirrhotic patients with haemodynamic non-response to propranolol

T Reiberger, G Ulbrich, A Ferlitsch, B A Payer, P Schwabl, M Pinter, B B Heinisch, M Trauner, L Kramer, M Peck-Radosavljevic, Vienna Hepatic Hemodynamic Lab

# **Recent advances in clinical practice**

**1642** New therapeutic avenues in ulcerative colitis: thinking out of the box

I Torres, S Danese, J-F Colombel

### **Recent advances in basic science**

**1653** Recent advances in inflammatory bowel disease: mucosal immune cells in intestinal inflammation

M Z Cader, A Kaser

### **JournalScan**

**1665** Gl highlights from the literature *M H McLean* 

# **Editor's quiz: GI snapshot**

**1590** Editor's snapshot: an unexpected duodenal finding

A D Nelson, G H Bain, A D Graham, M C Nicolson, J S Leeds

# **PostScript**

**1667** Letters

