

Cover: Light micrograph of a section through the small intestine (jejunum). Innerspace Imaging/Science Photo Library

Journal of the British Society of Gastroenterology

Impact Factor: 10.01

#### Editor

Professor Robin C Spiller (UK)

#### Deputy Editor

Severine Vermeire (Belgium)

#### Associate Editors

Ramon Bataller (Spain)

Guy Boeckxstaens (Belgium)

Laurence Egan (Ireland)

Alexander Gerbes (Germany)

William Grady (USA)

Thomas Gress (Germany)

Ernst Kuipers (The Netherlands)

David Mumter (UK)

Herbert Tilg (Austria)

#### 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](mailto: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** © 2009 BMJ Publishing Group 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 The Charlesworth Group and printed in the UK on acid-free paper from sustainable forests by Latimer Trend & Co Ltd, Plymouth, UK

*Gut* (USPS No: 002-278) is published monthly by BMJ Publishing Group and distributed in the USA by Pitney Bowes International Mailing Services Inc as mailing agent. Periodicals postage paid at Kearny, NJ, USA and additional mailing offices. POSTMASTER: send address changes to *Gut*, PB International Mailing Services Inc, 500 US Hwy 46, Clifton, NJ 07011, USA.

### Leader

- 893** New insights into the role of endogenous opioids in the pathogenesis of gastrointestinal and liver disease  
*A R Mani, K P Moore*

### Commentaries

- 897** Acting in good taste: nutrient sensors in the gut  
*K S Yan, P J Pasricha*
- 898** Mechanisms underlying the beneficial effects of stem cell therapies for inflammatory bowel diseases  
*J Panés, A Salas*
- 900** Sulforaphane: from chemoprevention to pancreatic cancer treatment?  
*J W Lampe*
- 902** GLP-1 analogues: a new therapeutic approach to prevent ductopenia in cholangiopathies?  
*U Beuers, B Göke*

### Stomach

- 904** Paradox of gastric cardia: it becomes more acidic following meals while the rest of stomach becomes less acidic  
*A T Clarke, A A Wörz, J P Seenan, J J Manning, D Gillen, K E L McColl*

### Inflammatory bowel disease

- 910** Reduced mucin sulfonation and impaired intestinal barrier function in the hyposulfataemic NaS1 null mouse  
*P A Dawson, S Huxley, B Gardiner, T Tran, J L McAuley, S Grimmond, M A McGuckin, D Markovich*
- 920** Matrix metalloproteinase 9 is involved in Crohn's disease-associated platelet hyperactivation through the release of soluble CD40 ligand  
*L Menchén, I Marín-Jiménez, E G Arias-Salgado, T Fontela, P Hernández-Sampelayo, M C García Rodríguez, N V Butta*
- 929** Human adult stem cells derived from adipose tissue protect against experimental colitis and sepsis  
*E Gonzalez-Rey, P Anderson, M A González, L Rico, D Büscher, M Delgado*
- 940** Adalimumab for the treatment of fistulas in patients with Crohn's disease  
*J-F Colombel, D A Schwartz, W J Sandborn, M A Kamm, G D'Haens, P Rutgeerts, R Enns, R Panaccione, S Schreiber, J Li, J D Kent, K G Lomax, P F Pollack*

### Pancreas

- 949** Sulforaphane targets pancreatic tumour-initiating cells by NF- $\kappa$ B-induced antiapoptotic signalling  
*G Kallifatidis, V Rausch, B Baumann, A Apel, B M Beckermann, A Groth, J Mattern, Z Li, A Kolb, G Moldenhauer, P Altevogt, T Wirth, J Werner, P Schemmer, M W Büchler, A V Salnikov, I Herr*

### Hepatology

- 964** Impaired plasmacytoid dendritic cell maturation and differential chemotaxis in chronic hepatitis C virus: associations with antiviral treatment outcomes  
*J A Mengshol, L Golden-Mason, N Castelblanco, K A Im, S M Dillon, C C Wilson, H R Rosen, for the Virahep-C Study Group*
- 974** Early kinetics of innate and adaptive immune responses during hepatitis B virus infection  
*P Fiscaro, C Valdatta, C Boni, M Massari, C Mori, A Zerbini, A Orlandini, L Sacchelli, G Missale, C Ferrari*
- 983** Detection of novel non-M2-related antimitochondrial antibodies in patients with anti-M2 negative primary biliary cirrhosis  
*M Feuchtinger, S Christ, B Preuß, J Dengjel, S Duman, S Stevanovic, R Klein*
- 990** Exendin-4, a glucagon-like peptide 1 receptor agonist, protects cholangiocytes from apoptosis  
*M Marzoni, G Alpini, S Saccomanno, C Candelaresi, J Venter, C Rychlicki, G Fava, H Francis, L Trozzi, A Benedetti*

### JournalScan

- 999** Edited by P Moayyedi

**MORE CONTENTS ►**



This article has been chosen by the Editor to be of special interest or importance and is freely available online.



Articles carrying the Unlocked Logo are freely available online under the BMJ Journals unlocked scheme. See <http://gut.bmj.com/info/unlocked.dtl>



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

[www.publicationethics.org.uk](http://www.publicationethics.org.uk)



When you have finished with this magazine please recycle it.

**Recent advances in basic science**

**1000** The role of heat shock proteins in gastrointestinal diseases

*V Dudeja, S M Vickers, A K Saluja*

**1010** Novel ways to sensitise gastrointestinal cancer to apoptosis

*H Schulze-Bergkamen, A Weinmann, M Moehler, J Siebler, P R Galle*

**PostScript**

**1025** Letters

**1032** Correction

**Editor's quiz**

**896** Epigastric pain in a woman with previous Behçet's disease

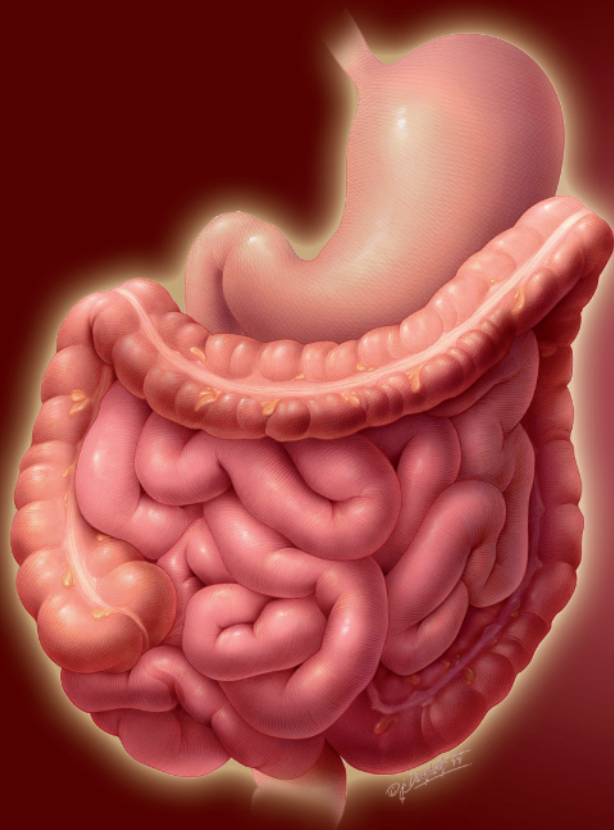
*A Hokama, H Samura, J Arakaki, R Murabayashi, K Shimoji, H Chinen, K Kishimoto, F Kinjo, T Nishimaki, J Fujita*

**963** Gastric polypoid lesion at the antrum

*C-J Chen, C-W Chang, H-L Chen, Y-J Chan, M-J Chen*

**982** Crampy left upper quadrant pain in a 26-year-old male

*M-T Tsai, H-P Wang, J-T Sun, W-C Lien*



## Easily digestible research every month

Gut is the premier gastroenterology journal in Europe with an impressive impact factor of 9.02, so you'll want the guarantee of reading it every month.

Why not recommend the journal to your librarian or better still, obtain your own personal subscription? You will receive a paper copy every month as well as online access for **just £194 a year** (€262, \$378). Too much paper on your desk already? An online subscription is **just £106** (€143, \$207).

Visit [group.bmj.com/group/subs-sales](http://group.bmj.com/group/subs-sales) - your subscription to this first class journal is just a few clicks away.

[gut.bmj.com](http://gut.bmj.com)

BMJ | Journals