

Cover: Coloured scanning electron micropraph of Shigella sp bacteria being trapped by a neutrophil cell. 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 (Belguim) Laurence Egan (Ireland) Alexander Gerbes (Germany) William Grady (USA) Thomas Gress (Germany) Ernst Kuipers (The Netherlands) David Mutimer (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

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 SPP, 75 Aberdeen Road, Emigsville, PA 17318, USA. Periodicals postage paid at Emigsville, PA, USA. POSTMASTER: send address changes to *Gut*, PO Box 437, Emigsville, PA 17318-0437, USA

Contents

Leading article

737 Isotretinoin and intestinal inflammation: what gastroenterologists need to know

M Shale, G G Kaplan, R Panaccione, S Ghosh

Commentaries

- **743** Critical role for CD8⁺FoxP3⁺ regulatory T cells in colon cancer immune response in humans I Sobhani, S Le Gouvello
- 744 Role of hydrogen sulfide in visceral nociception M Schemann, D Grundy
- 747 Selective targeting of activated T cells in chronic intestinal inflammation B Weigmann, M F Neurath
- **749** Variations in trypsinogen expression may influence the protective effect of the p.G191R PRSS2 variant in chronic pancreatitis F U Weiss, M Sahin-Tóth

Neurogastroenterology

751 Luminal hydrogen sulfide plays a pronociceptive role in mouse colon

> M Matsunami, T Tarui, K Mitani, K Nagasawa, O Fukushima, K Okubo, S Yoshida, M Takemura, A Kawabata

762 Hydrogen sulfide as a novel mediator for pancreatic pain in rodents

- S Nishimura, O Fukushima, H Ishikura, T Takahashi, M Matsunami, T Tsujiuchi,
- F Sekiguchi, M Naruse, Y Kamanaka,
- A Kawabata

Intestinal inflammation

- 771 Toll-like receptor 2 is critical for induction of Reg3ß expression and intestinal clearance of Yersinia pseudotuberculosis
 - R Dessein, M Gironella, C Vignal, L Peyrin-Biroulet, H Sokol, T Secher, S Lacas-Gervais, J-J Gratadoux, F Lafont, I-C Dagorn, B Ryffel, S Akira, P Langella, G Nùñez, J-C Sirard, J Iovanna, M Simonet, M Chamaillard

Inflammatory bowel disease

777 Transforming growth factor β signalling and matrix metalloproteinases in the mucosa overlying Crohn's disease strictures

A Di Sabatino, C L Jackson, K M Pickard, M Buckley, L Rovedatti, N A B Leakey, L Picariello, P Cazzola, G Monteleone, F Tonelli, G R Corazza, T T MacDonald, S L Pender

790 Therapeutic potency of IL2–caspase 3 targeted treatment in a murine experimental model of inflammatory bowel disease

S Shteingart, M Rapoport, I Grodzovski, O Sabag, M Lichtenstein, R Eavri, H Lorberboum-Galski

799 Genetic variants in the region harbouring IL2/IL21 associated with ulcerative colitis E A M Festen, P Govette, R Scott, V Annese, A Zhernakova, J Lian, C Lefèbvre, S R Brant, J H Cho, M S Silverberg, K D Taylor, D J de Jong, P C Stokkers, D Mcgovern, O Palmieri, I-P Achkar, R I Xavier, M I Dalv, R H Duerr, C Wijmenga, R K Weersma, J D Rioux

Colorectal cancer

805 Methylenetetrahydrofolate reductase deficiency and low dietary folate reduce tumorigenesis in Apc^{min/+} mice A K Lawrance, L Deng, R Rozen

Pancreas

813 Impact of toll-like receptor 4 on the severity of acute pancreatitis and pancreatitis-associated lung injury in mice

R Sharif, R Dawra, K Wasiluk, P Phillips, V Dudeja, E Kurt-Jones, R Finberg, A Saluja

- 820 A loss-of-function p.G191R variant in the anionic trypsinogen (PRSS2) gene in Japanese patients with pancreatic disorders
 - K Kume, A Masamune, Y Takagi, K Kikuta,
 - T Watanabe, K Satoh, A Satoh, M Hirota,
 - S Hamada, T Shimosegawa

Hepatology

825 Serum proteomic profiling of obese patients: correlation with liver pathology and evolution after bariatric surgery

V Trak-Smayra, D Dargere, R Noun, M Albuquerque, C Yaghi, M-H Gannagé-Yared, P Bedossa, V Paradis

MORE CONTENTS >



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

 $f C \left[f O \right] P \left[f E \right]$ committee on publication ethics

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

equator

6



www.publicationethics.org.uk

Contents

833 Plasma proteasome level is a reliable early marker of malignant transformation of liver cirrhosis L Henry, T Lavabre-Bertrand, L Vercambre, J Ramos, S Carillo, I Guiraud, P Pouderoux, M Bismuth, J-C Valats, C Demattei, Y Duny, I Chaze, N Funakoshi, J P Bureau, J-P Daurès, P Blanc



839 Visceral fat accumulation is an independent risk factor for hepatocellular carcinoma recurrence after curative treatment in patients with suspected NASH

> T Ohki, R Tateishi, S Shiina, E Goto, T Sato, H Nakagawa, R Masuzaki, T Goto, K Hamamura, F Kanai, H Yoshida, T Kawabe, M Omata

JournalScan

845 Edited by P Moayyedi

Recent advances in basic science

846 Gene expression and hepatitis C virus infection T Asselah, I Bièche, A Sabbagh, P Bedossa, R Moreau, D Valla, M Vidaud, P Marcellin

Recent advances in clinical practice

859 Monitoring disease activity by stool analyses: from occult blood to molecular markers of intestinal inflammation and damage D Foell, H Wittkowski, J Roth

Guidelines

869 Antibiotic prophylaxis in gastrointestinal endoscopy

M C Allison, J A T Sandoe, R Tighe, I A Simpson, R J Hall, T S J Elliott, prepared on behalf of the Endoscopy Committee of the British Society of Gastroenterology

PostScript

881 Letters

Editor's quiz

- 741 Ileal obstruction in a 73-year-old woman C-H Tseng, W-L Wang, T-C Lee, T-H Lee, H-P Wang
- 742 In disguise as an acute flare: an unusual differential diagnosis of Crohn's disease J G Albert, F S Gittinger, M Hainz, C Lübbert
- **750** A case of persistent vomiting A Pang, P L Chia, B Ang, S A Buhari, B Y S Chuah
- 812 A tenacious complete small bowel obstruction S Di Saverio, G Tugnoli, F Catena, A Biscardi, F Baldoni



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 - your subscription to this first class journal is just a few clicks away.

gut.bmj.com

BMJIJournals