

Caption: Tongue bacteria. Coloured scanning electron micrograph (SEM) of bacteria on the surface of a human tongue. Large numbers of bacteria can from a visible layer on the surface of the tongue. The mouth contains a large number of bacteria, most of which are humants or even beneficial. However, some bacteria can cause throat infections or cause the formation of plaque deposits on the teeth, which may lead to decay. Magnification: x10,000 wide/STEVE GSCHMEISSNER/SCIENCE PHOTO LIBRARY.

An international journal of gastroenterology and hepatology

#### Editor

Emad El-Omar (UK)

# Deputy Editor (Hepatology)

Alexander Gerbes (Germany)

# **Deputy Editor (Luminal**

Gastroenterology)

# William Grady (USA)

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: quteditorial@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 Statements in the obuning 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

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 © 2012 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 TNQ Books & Journals, Chennai, India and printed in the UK on acid-free paper from sustainable forests by Latimer Trend & Co Ltd,

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.

**Contents** Volume 61 Issue 4 | GUT April 2012

Impact factor: 10.614

### **Commentaries**

473 An alternative way for epithelial-tomesenchymal transition in colorectal cancer via EIF5A2?

F T Kolligs

474 Too much fat for the gut's microbiota H Tile, I R Marchesi

### Leading article

476 Inflammatory bowel disease therapies and cancer risk: where are we and where are we going?

L Beaugerie

#### Guidelines

**484** Guidelines for liver transplantation for patients with non-alcoholic steatohepatitis

PN Newsome, ME Allison, PA Andrews, G Auzinger, C P Day, J W Ferguson, P A Henriksen, S G Hubscher, H Manley, P J McKiernan, C Millson, D Mirza, I M Neuberger, I Oben, S Pollard, K I Simpson, D Thorburn, I W Tomlinson, I S Wyatt

# **Original articles Oesophagus**

Clinical, but not oesophageal pH-impedance, profiles predict response to proton pump inhibitors in gastro-oesophageal reflux disease F Zerbib, K Belhocine, M Simon, M Capdepont, F Mion, S Bruley des Varannes, I-P Galmiche

#### Helicobacter pylori

**507** Long-term clinical outcome of gastric MALT lymphoma after eradication of Helicobacter pylori: a multicentre cohort follow-up study of 420 patients in Japan

> S Nakamura, T Sugiyama, T Matsumoto, K Iijima, S Ono, M Tajika, A Tari, Y Kitadai, H Matsumoto, T Nagaya, T Kamoshida, N Watanabe, T Chiba, H Origasa, M Asaka, for the JAPAN GAST Study Group

#### GI bleeding

514 Upper gastrointestinal haemorrhage and deprivation: a nationwide cohort study of health inequality in hospital admissions

C J Crooks, J West, T R Card

# Inflammatory bowel disease

The Manitoba Inflammatory Bowel Disease Cohort Study: a prospective longitudinal evaluation of the use of complementary and alternative medicine services and products P Rawsthorne, I Clara, L A Graff, K I Bernstein, R Carr, J R Walker, J Ediger, L Rogala, N Miller, C N Bernstein

Effects of haptoglobin polymorphisms and deficiency on susceptibility to inflammatory bowel disease and on severity of murine colitis L Márquez, C Shen, I Clevnen, G De Hertogh, K Van Steen, K Machiels, C Perrier, V Ballet, S Organe, M Ferrante, L Henckaerts, G Galicia, P Rutgeerts, J L Ceuppens, S Vermeire

**535** Developing an instrument to assess the endoscopic severity of ulcerative colitis: the Ulcerative Colitis Endoscopic Index of Severity (UCEIS)

> S P L Travis, D Schnell, P Krzeski, M T Abreu, D G Altman, I-F Colombel, B G Feagan, S B Hanauer, M Lémann, G R Lichtenstein, PR Marteau, W Reinisch, BE Sands, B R Yacyshyn, C A Bernhardt, J-Y Mary,

#### **Gut microbiota**

W I Sandborn

543 Metabolic adaptation to a high-fat diet is associated with a change in the gut microbiota M Serino, E Luche, S Gres, A Baylac, M Bergé,

C Cenac, A Waget, P Klopp, J Iacovoni, C Klopp, J Mariette, O Bouchez, J Lluch, F Ouarné,

P Monsan, P Valet, C Roques, J Amar, A Bouloumié, V Théodorou, R Burcelin

# GI neoplasia

554 Generation of gaseous sulfur-containing compounds in tumour tissue and suppression of gas diffusion as an antitumour treatment K Yamagishi, K Onuma, Y Chiba, S Yagi, S Aoki, T Sato, Y Sugawara, N Hosoya, Y Saeki, M Takahashi, M Fuji, T Ohsaka, T Okajima, K Akita, T Suzuki, P Senawongse, A Urushiyama, K Kawai, H Shoun, Y Ishii, H Ishikawa, S Sugiyama, M Nakajima, M Tsuboi, T Yamanaka

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

COPE COMMITTEE ON PUBLICATION ETHICS

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

www.publicationethics.org.uk





#### Colon

562 Overexpression of EIF5A2 promotes colorectal carcinoma cell aggressiveness by upregulating MTA1 through C-myc to induce epithelial-mesenchymaltransition W Zhu, M-Y Cai, Z-T Tong, S-S Dong, S-J Mai, Y-J Liao, X-W Bian, M C Lin, H-F Kung, Y-X Zeng, X-Y Guan, D Xie

**576** Interval cancers in a FOBT-based colorectal cancer population screening programme: implications for stage, gender and tumour site R J C Steele, P McClements, C Watling, G Libby, D Weller, D H Brewster, R Black, F A Carey, C G Fraser

#### **Pancreas**

Variations of oral microbiota are associated with pancreatic diseases including pancreatic



# Hepatology

589 Hepatitis C virus non-structural 3/4A protein interferes with intrahepatic interferon-y production

> E D Brenndörfer, A Brass, J Söderholm, L Frelin, S Aleman, J G Bode, M Sällberg

Chronic hepatitis E infection in children with 597 liver transplantation

> U Halac, K Béland, P Lapierre, N Patey, P Ward, I Brassard, A Houde, F Alvarez

604 High-frequency vagus nerve stimulation improves portal hypertension in cirrhotic rats I Bockx, K Verdrengh, I Vander Elst, J van Pelt, F Nevens, W Laleman, D Cassiman

#### Recent advances in basic science

Stem cell transplantation in neurodegenerative disorders of the gastrointestinal tract: future or fiction?

S Kulkarni, L Becker, P J Pasricha

### Recent advances in clinical practice

**622** Hospitalisations and surgery in Crohn's disease C N Bernstein, E V Loftus Jr, S C Ng, P L Lakatos, B Moum, on behalf of the Epidemiology and Natural History Task Force of the International Organization for the Study of Inflammatory Bowel Disease (IOIBD)

#### **JournalScan**

**630** Gl highlights from the literature

# **PostScript**

632 Letters 636 Correction

# Editor's quiz: GI snapshot

**513** Anaemia in a cardiopath G W Moran, A Brind