

The famous "Icarus and Daedalus" sculpture by Rebecca Matte Bello outside the Chilean National Museum of Fine Arts, Santiago, Chile. Read in this issue the ICARUS International Consensus guidelines on how to select patients for antireflux surgery.

An international journal of gastroenterology and hepatology  
**Impact Factor:** 17.943

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BMJ Journals

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London, WC1H 9JR, UK

E: [info.gut@bmj.com](mailto:info.gut@bmj.com)

ISSN: 0017-5749 (print)

ISSN: 1468-3288 (online)

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Gut is published by BMJ Publishing Group Ltd, typeset by Exeter Premedia Services Private Ltd, Chennai, India 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 WN Shipping USA, 156-15, 146th Avenue, 2nd Floor, Jamaica, NY 11434, USA.


**Commentary**


**1913** Getting insights into hepatocellular carcinoma tumour heterogeneity by multiomics dissection  
*P Sarobe, F Corrales*

**Endoscopy news**

**1915** Concept of disposable duodenoscope: at what cost?  
 *J Y Bang, B Sutton, R Hawes, S Varadarajulu*

**Oesophagus**


**1918** Immune activation by DNA damage predicts response to chemotherapy and survival in oesophageal adenocarcinoma  
 *R C Turkington, L A Knight, J K Blayney, M Secrier, R Douglas, E E Parkes, E K Sutton, L Stevenson, D McManus, S Halliday, A M McCavigan, G E Logan, S M Walker, C J Steele, J Perner, J Bornschein, S MacRae, A Miremadi, E McCarron, S McQuaid, K Arthur, J A James, M M Eatock, R O'Neill, F Noble, T J Underwood, D P Harkin, M Salto-Tellez, R C Fitzgerald, R D Kennedy, on behalf of the Oesophageal Cancer Clinical and Molecular Stratification (OCCAMS) Study Group*

**1928** How to select patients for antireflux surgery? The ICARUS guidelines (international consensus regarding preoperative examinations and clinical characteristics assessment to select adult patients for antireflux surgery)  
 *A Pauwels, V Boeckxstaens, C N Andrews, S E Atwood, R Berrisford, R Bisschops, G E Boeckxstaens, S Bor, A J Bredenoord, M Cicala, M Corsetti, F Fornari, C P Gyawali, J Hatlebakk, S B Johnson, T Lerut, L Lundell, S Mattioli, H Miwa, P Naftoux, T Omani, J Pandolfino, R Penagini, T W Rice, P Roelandt, N Rommel, V Savarino, D Sifrim, H Suzuki, R Tutuian, T Vanuytsel, M F Vela, D I Watson, F Zerbib, J Tack*

**Stomach**

**1942** Diverse tumour susceptibility in Collaborative Cross mice: identification of a new mouse model for human gastric tumourigenesis  
 *P Wang, Y Wang, S A Langley, Y-X Zhou, K-Y Jen, Q Sun, C Brislawn, C M Rojas, K L Wahl, T Wang, X Fan, J K Jansson, S E Celniker, X Zou, D W Threadgill, A M Snijders, J-H Mao*

**Inflammatory bowel disease**


**1953** IBD prevalence in Lothian, Scotland, derived by capture–recapture methodology  
 *G-R Jones, M Lyons, N Plevris, P W Jenkinson, C Bisset, C Burgess, S Din, J Fulforth, P Henderson, G-T Ho, K Kirkwood, C Noble, A G Shand, D C Wilson, I DR Arnott, C W Lees*

**1961** T cell clonal expansions in ileal Crohn's disease are associated with smoking behaviour and postoperative recurrence  
*M Allez, C Auzolle, M Ngollo, H Bottois, V Chardin, A M Corraliza, A Salas, K Perez, C Stefanescu, S Nancey, A Buisson, B Pariente, M Fumery, H Sokol, X Tréton, N Barnich, P Seksik, L Le Bourhis, REMIND Study Group*

**Colon**

**1971** Oral antibiotic use and risk of colorectal cancer in the United Kingdom, 1989–2012: a matched case–control study  
*J Zhang, C Haines, A J M Watson, A R Hart, M J Platt, D M Pardoll, S E Cosgrove, K A Gebo, C L Sears*

**1979** Statins reduce the progression of non-advanced adenomas to colorectal cancer: a postcolonoscopy study in 187 897 patients  
*K-S Cheung, L Chen, E W Chan, W-K Seto, I C K Wong, W K Leung*

**1986** Crypt fusion as a homeostatic mechanism in the human colon  
 *A-M Baker, C Gabbutt, M J Williams, B Cereser, N Jawad, M Rodriguez-Justo, M Jansen, C P Barnes, B D Simons, S AC McDonald, T A Graham, N A Wright*

**MORE CONTENTS ►**



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**Pancreas**

**1994** GABRP regulates chemokine signalling, macrophage recruitment and tumour progression in pancreatic cancer through tuning KCNN4-mediated Ca<sup>2+</sup> signalling in a GABA-independent manner  
*S-H Jiang, L-L Zhu, M Zhang, R-K Li, Q Yang, J-Y Yan, C Zhang, J-Y Yang, F-Y Dong, M Dai, L-P Hu, J Li, Q Li, Y-H Wang, X-M Yang, Y-L Zhang, H-Z Nie, L Zhu, X-L Zhang, G-A Tian, X-X Zhang, X-Y Cao, L-Y Tao, S Huang, Y-S Jiang, R Hua, K Qian Luo, J-R Gu, Y-W Sun, S Hou, Z-G Zhang*

**2007** Ring1b-dependent epigenetic remodelling is an essential prerequisite for pancreatic carcinogenesis

*S Benitz, T Straub, U M Mahajan, J Mutter, S Czernel, T Unruh, B Wingerath, S Deubler, L Fahr, T Cheng, S Nahnsen, P Bruns, B Kong, S Raulefs, G O Ceyhan, J Mayerle, K Steiger, I Esposito, J Kleff, C W Michalski, I Regel*

**Hepatology**

**2019** Integrated multiomic analysis reveals comprehensive tumour heterogeneity and novel immunophenotypic classification in hepatocellular carcinomas

*Q Zhang, Y Lou, J Yang, J Wang, J Feng, Y Zhao, L Wang, X Huang, Q Fu, M Ye, X Zhang, Y Chen, C Ma, H Ge, J Wang, J Wu, T Wei, Q Chen, J Wu, C Yu, Y Xiao, X Feng, G Guo, T Liang, X Bai*

**2032** Poly I:C-based rHBVvac therapeutic vaccine eliminates HBV via generation of HBV-specific CD8<sup>+</sup> effector memory T cells

*H-J Zhao, Q-J Han, G Wang, A Lin, D-Q Xu, Y-Q Wang, L-H Zhao, Z-G Tian, J Zhang*

**2044** HBV infection-induced liver cirrhosis development in dual-humanised mice with human bone mesenchymal stem cell transplantation

*L Yuan, J Jiang, X Liu, Y Zhang, L Zhang, J Xin, K Wu, X Li, J Cao, X Guo, D Shi, J Li, L Jiang, S Sun, T Wang, W Hou, T Zhang, H Zhu, J Zhang, Q Yuan, T Cheng, J Li, N Xia*

**2057** Unified interpretation of liver stiffness measurement by M and XL probes in non-alcoholic fatty liver disease

*V W-S Wong, M Irls, G L-H Wong, S Shili, A W-H Chan, W Merrouche, S S-T Shu, J Foucher, B Le Bail, W K Chan, H L-Y Chan, V de Ledinghen*

**Recent advances in basic science**

**2065** miRNAs and NAFLD: from pathophysiology to therapy

*M Gjorgjeva, C Sobolewski, D Dolicka, M Correia de Sousa, M Foti*

**Recent advances in clinical practice**

**2080** Update on lactose malabsorption and intolerance: pathogenesis, diagnosis and clinical management

*B Misselwitz, M Butter, K Verbeke, M R Fox*

**JournalScan**

**2092** GI highlights from the literature

*M H McLean*

**PostScript**

**2095** Letters

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**Editor's quiz: GI snapshot**

**1960** Oesophageal and scaly skin lesions associated with chronic cholestatic liver disease

*P Kasper, T Goeser, D Nierthoff*

**Electronic page**

**e1** Correction: *perendoscopic management of direct oral anticoagulants: a prospective cohort study*