### Leading article

**421 Disruption of NF-kB signalling by ancient microbial molecules: novel therapies of the future?**

F Yan, D B Polk

### Commentaries

**427 Building better bugs to deliver biologics in intestinal inflammation**

K E Barrett

**428 HIV protein gp120 and chemokines receptor for liver fibrosis**

G Svegliati-Baroni, S De Minicis

**430 Acid pocket, hiatus hernia and acid reflux**

K E L McColl, A Clarke, J Seenan

**431 Visceral sensory and cognitive-affective neuroscience: towards integration?**

L V Oudenhove

**433 Oesophageal shortening: in vivo validation of high-frequency ultrasound measurements of oesophageal muscle wall thickness**

W Boersma, P V Berge, R Ferre, D Sifrim

### Coeliac disease

**452 Continual monitoring of intraepithelial lymphocyte immunophenotype and clonality is more important than snapshot analysis in the surveillance of refractory coeliac disease**

H Liu, R Beais, A Lavergne-Slove, Q Jeng, K Payne, H Ye, Z Liu, J Carreras, Y Huang, C M Bacon, R A Hamoudi, V Save, I Venkatraman, P G Isaacson, J Woodward, M-Q Da

### Experimental colitis

**461 Xylan-regulated delivery of human keratinocyte growth factor-2 to the inflamed colon by the human anaerobic commensal bacterium Bacteroides ovatus**

Z Z R Hamady, N Scott, M D Farrar, J P A Lodge, K T Holland, T Whitehead, S R Carding

**470 Targeting delivery of anti-TNF-α oligonucleotide into activated colonic macrophages protects against experimental colitis**

L Zuo, Z Huang, L Dong, L Xu, Y Zhu, K Zeng, C Zhang, J Chen, J Zhang

### Neurogastroenterology

**481 Potentiation of TRPV4 signalling by histamine and serotonin: an important mechanism for visceral hypersensitivity**

N Cenci, C Ahier, J-P Motta, E d’Aldebert, S Galletto, G W Zamponi, N Vergnolle

### Irritable bowel syndrome

**489 Affective disturbances modulate the neural processing of visceral pain stimuli in irritable bowel syndrome: an fMRI study**

S Eisenbruch, C Rosenberger, P Enck, M Forsting, M Scheldowski, E R Gizewski

### Colon cancer

**496 Restoration of APC gene function in colorectal cancer cells by aminoglycoside- and macrolide-induced read-through of premature termination codons**

A Zilberberg, I Lahav, R Rosin-Arbesfeld

### Hepatology

**508 Case—control studies of risk factors for primary biliary cirrhosis in two United Kingdom populations**

M I Prince, S J Ducker, O FW James

**513 gp120 modulates the biology of human hepatic stem cell lines: a link between HIV infection and liver fibrogenesis**

R Bruno, S Galastri, P Sacchi, S Cima, A Caligiuri, R DeFranco, S Milani, S Gessani, L Fantuzzi, F Loita, F Fresati, G Antonucci, M Pinzani, F Marra

**521 Curcumin improves sclerosing cholangitis in Mdr2−/− mice by inhibition of cholangiole inflammatory response and portal myofibroblast proliferation**

A Bagdasarsyan, T Claudel, A Kosters, J Gambold, D Silbert, A Thüringer, K Leski, P Fickert, S J Karpen, M Tramer
<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pancreas</td>
<td>531</td>
<td>Expression of interleukin 1-like cytokine interleukin 33 and its receptor complex (ST2L and IL1RAcP) in human pancreatic myofibroblasts</td>
<td>A Nishida, A Andoh, H Imaeda, O Inatomi, H Shiomi, Y Fujiyama</td>
</tr>
<tr>
<td>Case report</td>
<td>542</td>
<td>Possible involvement of T helper type 2 responses to Toll-like receptor ligands in IgG4-related sclerosing disease</td>
<td>R Akitake, T Watanabe, C Zaima, N Uza, H Ida, S Tada, N Nishida, T Chiba</td>
</tr>
<tr>
<td>JournalScan</td>
<td>546</td>
<td></td>
<td>Edited by G P Aithal</td>
</tr>
<tr>
<td>Recent advances in clinical practice</td>
<td>547</td>
<td>Classification and management of refractory coeliac disease</td>
<td>A Rubio-Tapia, J A Murray</td>
</tr>
<tr>
<td>Editor’s quiz</td>
<td>451</td>
<td>A bitter pill</td>
<td>S Menon, T Stone, J Butterworth</td>
</tr>
<tr>
<td></td>
<td>480</td>
<td>The Bowel Cancer Screening Programme: an unusual cause of positive faecal occult bloods</td>
<td>P G Lidder, D Buckley, R D Pullan</td>
</tr>
<tr>
<td>PostScript</td>
<td>558</td>
<td>Letters</td>
<td></td>
</tr>
</tbody>
</table>