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A unique population of oligoclonal CD8⁺ tissue-resident T cells infiltrating the murine and human stomach upon *Helicobacter pylori* infection is identified, which specifically responds to the bacterial oncogene cytotoxin-associated gene A and mediates pathogen control.

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Anti-integrin $\alpha\beta6$ autoantibodies are a new biomarker for the development of ulcerative colitis and disease-related adverse outcomes.

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We identified molecules in colon tissues of irritable bowel syndrome patients that lead to abdominal pain. These molecules induced visceral pain in mice that was reversed with blocking agents.

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M. R. Ingrosso, M. Camilleri, J. Tack, G. Ianiro, C. J. Black, and A. C. Ford

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We studied efficacy of drugs for gastroparesis. Most drugs were not efficacious; only clobopride and domperidone were better than a placebo. There is a great unmet need for drugs that improve the symptoms for people with this condition.

- 655** **Negative Impact of Disorders of Gut-Brain Interaction on Health-Related Quality of Life: Results From the Rome Foundation Global Epidemiology Survey**

S. R. Knowles, D. Skvarc, A. C. Ford, O. S. Palsson, S. I. Bangdiwala, A. D. Sperber, and A. Mikocka-Walus

Quality of life is poorer for individuals with a disorders of gut-brain interaction, especially if they are women, aged older than 65 years, have overlapping disorders of gut-brain interaction, and experience mental health symptoms.

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T.-C. Tseng, C. Chiang, C.-J. Liu, C.-M. Hong, T.-H. Su, H.-C. Yang, W.-T. Yang, C.-H. Liu, P.-J. Chen, and J.-H. Kao

In a large retrospective cohort study of patients with chronic hepatitis B, we found lower levels of hepatitis B core-related antigen were associated with higher probability of clearing hepatitis B surface antigen. Reduction of hepatitis B core-related antigen developed 10 years before decline of hepatitis B surface antigen in patients with high hepatitis B surface antigen levels at baseline, but cleared hepatitis B surface antigen thereafter. This different kinetic of viral antigens may blueprint the treatment strategy for hepatitis B virus cure.

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