

# CANCER PREVENTION RESEARCH

# TABLE OF CONTENTS

## HIGHLIGHTS FROM THE LITERATURE

- 255** **Editors' Selections from Relevant Scientific Publications**

## SPOTLIGHT

- 257** **Gastric Cancer Origins: Stem Cells, Metaplasia, and Environmental Interactions**  
Hiroto Kinoshita, Guodong Lian, and Yoku Hayakawa  
See related article, p. 271

## COMMENTARY

- 261** **Racial Health Disparity and Risk of Multiple Myeloma: Implications for Energy Balance Interventions**  
Amber J. Normann, Rebekah L. Wilson, Ellaney Matarese, Chuan Lu, Brett P. Ranieri, John R. Gardiner, Catherine R. Marinac, and Christina M. Dieli-Conwright

## RESEARCH ARTICLES

- 271** **Chronic Cigarette Smoke Exposure Masks Pathological Features of *Helicobacter pylori* Infection While Promoting Tumor Initiation**  
Maeve T. Morris, Benjamin C. Duncan, M. Blanca Piazuelo, I. Mark Olfert, Xiaojiang Xu, Salik Hussain, Richard M. Peek Jr, and Jonathan T. Busada  
These findings suggest that cigarette smoking suppresses pathophysiological hallmarks of *H. pylori* infection while accelerating gastric carcinogenesis. Therefore, smokers should receive screening for *H. pylori* infection to reduce gastric cancer risk.  
See related Spotlight, p. 257

- 283** **Solvent Exposure, Genetic Susceptibility, and Risk of Bladder Cancer**

Deborah A. Tadesse, Nathaniel Rothman, Shuai Xie, Lauren M. Hurwitz, Melissa C. Friesen, Dalsu Baris, Molly Schwenn, Alison Johnson, Margaret R. Karagas, Debra T. Silverman, and Stella Koutros

Our findings suggest that bladder cancer risk is higher among those exposed to BTX-containing solvents who also harbor common genetic polymorphisms associated with bladder cancer. The joint contribution of genetics and occupational exposures may play an important role in the etiology of bladder cancer.

- 291** **High-Resolution Anoscopy Referral Rates Adopting Different Anal Cancer Screening Strategies for Men Who Have Sex with Men**

Maria Benevolo, Massimo Giuliani, Paolo Giorgi Rossi, Francesca Rollo, Eugenia Giuliani, Christof Stingone, Laura Gianserra, Mauro Zaccarelli, Alessandra Latini, and Maria Gabriella Donà

Adopting the recent IANS recommendations for anal cancer screening in MSM may be challenging when HRA availability is limited. Estimating the HRA referral rates we would have using 12 different screening algorithms, we highlighted that application of these recommendations implies a careful analysis of the local resource capacity.

- 299** **Use Patterns of Levonorgestrel-Releasing Intrauterine System among American Women**

Paul G. Yeh, Allen Haas, Charlotte C. Sun, Karen H. Lu, Larissa A. Meyer, and Iakovos Toumazis

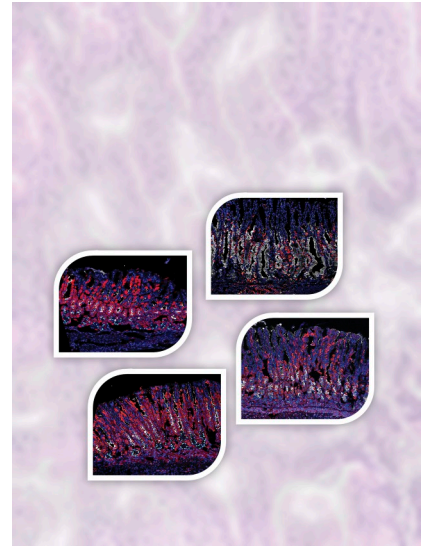
This study describes the characteristics of American women using the LNG-IUS. Reproductive-age women (especially Hispanic, with lower education, nulliparous, uninsured, and with diabetes) have lower LNG-IUS use odds. These groups may benefit from LNG-IUS use for endometrial cancer primary prevention, conditioned that LNG-IUS use is proven effective in reducing endometrial cancer incidence.

# TABLE OF CONTENTS

## ABOUT THE COVER

*Helicobacter pylori* infection and cigarette smoking are independent risk factors for gastric cancer. This study by Morris and colleagues starting on page 271 examined how cigarette smoke exposure influences *H. pylori* gastric colonization and the pathophysiological changes associated with infection. The cover image, adapted from Fig. 3A, displays immunostaining of parietal cells, chief cells, and mucous neck cells—key cell lineages in the gastric corpus. The image illustrates that *H. pylori*-infected mice exposed to filtered air develop parietal and chief cell atrophy along with mucous neck cell hyperplasia, hallmark features of this infection. However, in *H. pylori*-infected mice exposed to cigarette smoke, these pathological changes are attenuated. Findings from this study suggest that smokers may be more likely to harbor asymptomatic *H. pylori* infections, potentially hindering eradication therapy and increasing gastric cancer risk.

doi: 10.1158/1940-6207.CAPR-18-5-CVR



---

**NOTICE:** This notice serves to inform the reader that, in 2023, AACR received a donation by Pfizer of the rights to royalties from the sale—within the United States—of Bavencio® (avelumab), a pharmaceutical owned by Merck. None of these funds are being, or will be, used to directly support any specific publication or author. If an individual article is published that deals with this particular drug, such article will include standard financial disclosures per AACR journal policy. For more detail regarding AACR's established policies for authors, please go to <https://aacrjournals.org/pages/editorial-policies#coi>.