COMMENTARY

253胃癌预防中的去甲基化
Barbara G. Schneider and
Richard M. Peek, Jr.
See article, p. 263

PERSPECTIVE

257姜：它是时候准备好了吗？
Gary D. Stoner
See article, p. 271

RESEARCH ARTICLES

263预防胃癌
Tohru Niwa, Takeshi Toyoda,
Tetsuya Tsukamoto, Akiko Mori,
Masae Tatematsu, and Toshikazu Ushijima
See commentary, p. 253

271姜对细胞周期标志物的影响
Jessica Citronberg, Robert Bostick,
Thomas Ahearn, D. Kim Turgeon,
Mack T. Ruffin, Zora Djuric, Ananda Sen,
Dean E. Brenner, and Suzanna M. Zick
See commentary, p. 257

282热量限制逆转肥胖
Priya Bhardwaj, Baoheng Du, Xi Kathy Zhou,
Erika Sue, Michael D. Harbus,
Domenick J. Falcone, Dilip Giri,
Clifford A. Hudis, Levy Kopelovich,
Kotha Subhraramaiah, and
Andrew J. Dannenberg

290定义组蛋白去乙酰化酶
Zongjian Zhu, Weiqin Jiang,
John N. McGinley, and Henry J. Thompson

299Bexarotene诱导细胞
Senescence in MMTV-Neu Mouse
Model of Mammary Carcinogenesis
Anne Shilkaitis, Laura Bratescu,
Albert Green, Tohru Yamada, and
Konstantin Christov

309β-Cryptoxanthin恢复
Nicotine-Reduced Lung SIRT1 to Normal Levels
and Inhibits Nicotine-Promoted Lung
Tumorigenesis and Emphysema in A/J Mice
Anita R. Iskandar, Chun Liu,
Donald E. Smith, Kang-Quan Hu,
Sang-Woon Choi, Lynne M. Ausman, and
Xiang-Dong Wang

321脂质代谢基因
Jun Wang, Denise Scholten, Michelle Holko,
David Ivancic, Oukseub Lee, Hong Hu,
Robert T. Chatterton Jr., Megan E. Sullivan,
Nora Hansen, Kevin Bethke, Carola M. Zalles,
and Seema A. Khan

331联合测定CA19-9和
miR-27a-3p在血清中的应用
Wan-Sheng Wang, Ling-Xiao Liu,
Guo-Ping Li, Yi Chen, Chang-Yu Li,
Da-Yong Jin, and Xiao-Lin Wang

339雌激素受体β在
中胚层癌预防中的作用
Abby D. Benninghoff and David E. Williams

349抑制15-
环氧合前列腺素
Dehydrogenase by Helicobacter
pylori in Human Gastric
Carcinogenesis
Yeon-Mi Ryu, Seung-Jae Myung,
Young Soo Park, Dong-Hoon Yang,
Ho June Song, Jin-Yong Jeong, Sun Mi Lee,
Miyeoun Song, Do Hoon Kim,
Hyo-Jeong Lee, Soo-Kyung Park,
Stephen P. Fink, Sandy D. Markowitz,
Kee Wook Jung, Kyung-Jo Kim,
Byong Duk Ye, Jeong-Sik Byeon,
Hwoon-Yong Jung, Suk-Kyun Yang, and
Jin-Ho Kim
ABOUT THE COVER

Suppression of aberrant DNA methylation is a novel approach to cancer prevention, but so far the efficacy of the strategy has not been evaluated in cancers associated with chronic inflammation. Gastric cancers (GCs) induced by *Helicobacter pylori* (HP) infection are known to involve aberrant DNA methylation and are associated with severe chronic inflammation in their early stages. Using the DNA demethylating agent 5-aza-2′-deoxycytidine (5-aza-dC), suppression of aberrant DNA methylation to prevent HP-induced GCs was investigated using a Mongolian gerbil model. The incidence of GCs induced by HP infection and N-methyl-N-nitrosourea (MNU) treatment as well as global DNA methylation levels were significantly decreased in gerbils treated with 5-aza-dC (50–55 weeks) compared to vehicle. Extra-gastric tissues were tested to assess adverse effects of 5-aza-dC, which included testicular atrophy. The cover micrograph shows a magnified view of tissue sections of nonatrophied testes in vehicle-treated gerbils. These results show that 5-aza-dC treatment can prevent HP-induced GCs and suggest that removal of induced DNA methylation and/or suppression of DNA methylation induction can become a target for prevention of chronic inflammation-associated cancers. See article by Niwa and colleagues (beginning on page 263) for more information.