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Pubertal Bisphenol A Exposure Alters Murine Mammary Stem Cell Function Leading to Early Neoplasia in Regenerated Glands
Danhan Wang, Hui Gao, Abhik Bandyopadhyay, Anqi Wu, I-Tien Yeh, Yidong Chen, Yi Zou, Changjiang Huang, Christi A. Walter, Qiaoxiang Dong, and Lu-Zhe Sun

Curcumin Implants, Not Curcumin Diet, Inhibit Estrogen-Induced Mammary Carcinogenesis in ACI Rats
Shyam S. Bansal, Hina Kausar, Manicka V. Vadhanam, Srivani Ravoori, Jianmin Pan, Shesh N. Rai, and Ramesh C. Gupta

Curcumin Suppresses Proliferation of Colon Cancer Cells by Targeting CDK2
Tae-Gyu Lim, Sung-Young Lee, Zunnan Huang, Do Young Lim, Hanyong Chen, Sung Keun Jung, Ann M. Bode, Ki Won Lee, and Zigang Dong

LETTERS TO THE EDITOR

Cost-Effectiveness of a Genetic Test for Breast Cancer Risk—Letter
David G. Cox, Stéphane Ragusa, Lionel Pourtau, Lionel Perrier, and Suzette Delaloge

Cost-Effectiveness of a Genetic Test for Breast Cancer Risk—Response
Henry Folse, Richard Allman, and Tuan A. Dinh
Perinatal exposure to bisphenol A (BPA) has been shown to cause aberrant mammary gland morphogenesis and mammary neoplastic transformation, though the underlying mechanism is poorly understood. Mammary glands of 21-day-old Balb/c mice were exposed to BPA by gavage (25 µg/kg/day) during puberty for 3 weeks to determine whether mammary stem cell (MaSC) function was altered leading to increased susceptibility to tumorigenesis through a stem cell–mediated mechanism. The cover art is a stylistic representation of the quantification of immunohistochemical staining patterns of FosB and c-Fos expression of regenerated ductal outgrowths in control or BPA-treated MaSCs. Pubertal exposure to the low-dose BPA increased lateral branches and hyperplasia in adult mammary glands and altered the function of MaSCs from different age groups, causing early neoplastic lesions in their regenerated glands, suggesting that MaSCs are susceptible to BPA-induced transformation. The present study is the first to show that pubertal BPA exposure altered murine MaSC gene expression and function such that they induced early neoplastic transformation. See the article by Wang and colleagues (beginning on page 445) for more information.