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About the Cover

The cover photographs illustrate the dramatic suppression of muscle-invasive bladder cancer by intravesically administered rapamycin, which inhibits the mammalian target of rapamycin (mTOR), in a genetically engineered mouse model of progression from pre-invasive to invasive bladder cancer. The larger, muscle-invasive tumor (top) developed in a mouse treated with control vehicle; the smaller, non-muscle–invasive tumor (bottom) developed in a mouse treated with rapamycin. The measures numbered along the x and y axes are centimeters. These findings are the first to demonstrate the chemopreventive effectiveness of a molecular-targeted agent given intravesically in a relevant murine bladder model; they support broadening the study of intravesical therapeutic agents in high-risk non-muscle–invasive bladder cancer patients and provide a preclinical mouse model for testing novel such agents. Showing that intravesical delivery of an mTOR inhibitor blocks progression to invasive disease provides new hope for patients at a high risk for developing muscle-invasive bladder cancer, for whom few treatment options exist. See articles by Seager et al. (beginning on page 1008) and McConkey and Dinney (beginning on page 1001) for more information.
Cancer Prevention Research

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