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570 Retraction: Role of Ribosomal Protein RPS2 in Controlling let-7a Expression in Human Prostate Cancer
Loss of TGF-β type II receptor (TβRII) in cancer-associated fibroblasts has been found in nearly 70% of human prostate cancer tissues. To determine whether similar changes occur in the bone marrow microenvironment after prostate cancer cells metastasize, immunohistochemistry was performed for α-smooth muscle actin (α-SMA), androgen receptor (AR), and TβRII in human bone tissue both associated with and not associated with prostate cancer bone metastasis. Neither α-SMA nor AR expression was detected in the bone marrow, but TβRII was highly expressed in marrow cells of naïve bone tissues. In the bone tissues associated with prostate cancer, however, α-SMA was detected in cancer-associated fibroblasts; AR was detected in prostate cancer cells and cancer-associated fibroblasts; TβRII expression was detected in cancer epithelial cells, but was lost in cancer-associated fibroblasts in the bone metastasis tissues examined, indicating that the prostate cancer cells exert a strong influence on cells within the bone microenvironment. For further details, please see Li and colleagues on page 494 in this issue.