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SIGNAL TRANSDUCTION

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ABOUT THE COVER

This study, by Qian and colleagues (beginning on page 1844), defines the role of the chemokine receptor CX3CR1 in the reseeding of breast Circulating Tumor Cells (CTCs). Their work describes how a novel antagonist of this receptor reduces both numerical and dimensional expansion of existing disseminated tumors in an animal model of metastatic disease. In particular, the authors effectively discriminate between dormant and reseeded tumor cells using CM-Dil, a red fluorescent dye that is retained during proliferative quiescence but is progressively diluted in highly proliferating cells, as shown by this skeletal tumor generated by cancer cells expressing green fluorescent protein but lacking red fluorescence.