



**FIGURE 9-2** Detection of generation of ROS in one half of PtK2 cells irradiated with an 800 nm NIR laser at a mean power of 7 mW using a Jenchrom px blue. (a) Emboss-filtered transmission image of a monolayer of PtK2 cells before irradiation. (b) Autofluorescence image before NIR irradiation. (c) NIR femtosecond-laser-induced (at mean power of 25  $\mu$ W) fluorescence image of the Jenchrom reaction product formed exclusively in one half of the cells exposed to a high laser power (7 mW). (d) Electronically merged transmission and fluorescence images, showing the discrete presence of punctate fluorescent products only in high-power (7 mW) NIR-irradiated cells.