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miR-381 induces sensitivity of breast cancer cells to doxorubicin by inactivation of MAPK signaling via FYN

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Abstract

The emergence of drug resistance is still a daunting challenge for the effective therapy of cancer patients. miRNAs have been elucidated as an important regulator in chemoresistance of anti-cancer drugs. miR-381 is found to exert tumor-suppressive effect in breast cancer. However, its role in modulating the sensitivity of doxorubicin (DOX) remains unknown. In this study, we found that miR-381 expression was down-regulated in DOX-resistant breast cancer cells. miR-381 overexpression increased DOX sensitivity and enhanced DOX-induced apoptosis in breast cancer

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