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PI3K/AKT Signaling Is Essential for Communication between Tissue-Infiltrating Mast Cells, Macrophages, and Epithelial Cells in Colitis-Induced Cancer

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ABOUT THE COVER

Assembling of microRNA-loaded transferrin-conjugated-nanoparticles to target acute myeloid leukemia (AML) blasts. The nanoparticle core was composed of negatively charged microRNA molecules (miR, \(\textcolor{red}{\bullet} \textcolor{green}{\bullet}\)) and positively charged polyethylenimine (PEI, \(\textcolor{green}{\bullet} \textcolor{red}{\bullet}\)). Empty nanoparticles were composed of DOPE (\(\textcolor{green}{\bullet}\)), linoleic acid (\(\textcolor{red}{\bullet}\)), and DMG-PEG (\(\textcolor{red}{\bullet} \textcolor{green}{\bullet}\)). After the loading of the PEI-miR core in the nanoparticles, transferrin-PEG-DSPE (\(\textcolor{green}{\bullet} \textcolor{red}{\bullet}\)) was inserted into the nanoparticle surface for specific targeting of leukemia blasts. The background depicts a cytospin of AML blasts derived from a mouse with AML treated with miR-loaded nanoparticles. For details, see the article by Huang and colleagues on page 2355 of this issue.

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