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### Expression Defect Size among Unclassified MLH1 Variants Determines Pathogenicity in Lynch Syndrome Diagnosis

Inga Hinrichsen, Angela Brieger, Jörg Trojan, Stefan Zeuzem, Mef Nilbert, and Guido Plotz

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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, \(\text{miR}^\text{neg}\)) and positively charged polyethylenimine (PEI, \(\text{PEI}^\text{pos}\)). Empty nanoparticles were composed of DOPE (\(\text{DOPE}_\text{neg}\)), linoleic acid (\(\text{linoleic acid}^\text{neg}\)), and DMG-PEG (\(\text{DMG-PEG}^\text{neg}\)). After the loading of the PEI-miR core in the nanoparticles, transferrin-PEG-DSPE (\(\text{transferrin-PEG-DSPE}^\text{neg}\)) 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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