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ABSTRACT OF THE DISCLOSURE

TARGETED LIPOSOMES

The present invention is in the field of drug delivery, and specifically, cationic liposome-based drug delivery. In embodiments, this invention provides methods of making ligand-targeted (e.g., antibody- or antibody fragment-targeted) liposomes useful for the delivery of liposomes to tumors, including brain tumors. In embodiments, the liposomes deliver temozolomide across the blood-brain barrier for treatment of primary or metastatic brain tumors. Additional cancers that can be treated with the liposomes include neuroendocrine tumors, melanoma, prostate, head and neck, ovarian, lung, liver, breast, urogenital, gastric, colorectal, cervical, liposarcoma, rhabdomyosarcoma, choriocarcinoma, pancreatic, retinoblastoma and other types of cancer. In another embodiment the liposomes deliver melphalan for the treatment of multiple myeloma, other tumors of the blood or other solid tumors. In still other embodiments the liposomes can deliver other drugs, including atropine for treatment of organophosphate poisoning.

Figure for publication: None