

Title (en)

MAGNETOLIPOSOME COMPOSITION FOR TARGETED TREATMENT OF BIOLOGICAL TISSUE

Title (de)

ZUBEREITUNG ENTHALTEND MAGNETOLIPOSOMEN ZUR GEZIELTEN BEHANDLUNG VON BIOLOGISCHEM GEWEBE

Title (fr)

COMPOSITION A BASE DE MAGNETOLIPOSOMES, DESTINEE AU TRAITEMENT CIBLE D'UN TISSU BIOLOGIQUE

Publication

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Application

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Priority

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- US 18049400 P 20000205

Abstract (en)

[origin: WO0156546A2] A composition for treatment of biological tissue responsive to an applied magnetic field comprises a plurality of magnetoliposomes, each magnetoliposome of the plurality having a lipid-containing wall defining a vesicle, and a plurality of subdomain superparamagnetic particles, and an inactive prodrug capable of activating into a drug effective for treatment of the biological tissue, the prodrug carried by the plurality of magnetoliposomes for delivery to the biological tissue. A method of treatment for a biological tissue comprises administering the composition to the tissue, concentrating the plurality of magnetoliposomes in the biological tissue responsive to a substantially constant magnetic field, activating the inactive prodrug into an effective drug by applying an electromagnetic field to the concentrated plurality of magnetoliposomes so as to therein generate heat sufficient for activation without appreciable rupture of individual magnetoliposomes of the plurality of magnetoliposomes, and releasing the activated effective drug into the biological tissue by sufficiently increasing permeability of the lipid-containing walls of individual magnetoliposomes of the plurality of magnetoliposomes to thereby release activated drug.

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