

Dual functionalized redox sensitive biodegradable polymeric nanosystems for targeted drug delivery in cancer therapy

IIT Delhi presents a technology for production of stimuli sensitive biodegradable polymeric nanosystems which act as a magic bullet with flexible functionality and high specificity for cancer. The key objective of the technology is to improve chemotherapeutic efficacy of anticancer drugs with reduction in chemotherapy associated side effects. The technology incorporates high payload of anticancer drugs in the nanoparticles while controlling their release selectively in cancer cells with minimal drug release during circulation. The technology is scalable and amenable to customization.

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