

Review of: "Transferrin-modified liposomes triggered with ultrasound to treat HeLa cells"

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The manuscript contains a lot of careful and versatile work, but there are a couple of issues that I wish to raise:

1. Ultrasound makes convection and cavitation. Hence, how relevant are the diffusion models for drug release? I assume that drug is released during both the duty cycle (20s) and the off-time (10s). Transport cannot be purely diffusion controlled.
2. Looking at the release profiles in Fig. 8, it seems that the effect of Transferrin (Tf) is rather incremental, although statistically significant. But this is a practical issue. Pharmaceutical industry wants to keep formulations simple to make their manufacturing fast and cost-effective. I doubt that the improvement with Tf is big enough.