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Title: Lipopolysaccharide based oral nanocarriers for the improvement of bioavailability and anticancer efficacy of curcumin

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Highlights

- We prepared curcumin loaded lipopolysaccharide nanocarriers (C-LPNCs).
- LPNCs showed diffusion-controlled release of curcumin.
- LPNCs showed enhanced oral bioavailability of curcumin.
- C-LPNCs demonstrated higher cytotoxicity than pure curcumin.
- C-LPNCs showed markedly enhanced *in vivo* anticancer efficacy as well as survival rate.

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