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Title: Self-healable Hydrogel on Tumour Cell as Drug Delivery System for Localized and Effective Therapy

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- 1 1. Self-healing hydrogel as an injectable drug carrier was facilely prepared.
- 2 2. The hydrogel shell could be easily formed on tumor cells, and its self-healing ability helps to
- 3 solve the catheter clogging in the process of injection, and could repair itself when damaged.
- 4 3. The hydrogel has good biocompatibility, possesses good retention ability for 5-FU at pH 7.4
- 5 preventing the loss of drug to normal cells, as well as shows pH sensitive continuous and
- 6 controllable release at pH 5.0, with enhanced antitumor effect.

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