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Nanobubbles loaded with carbon quantum dots for ultrasonic fluorescence dual detection

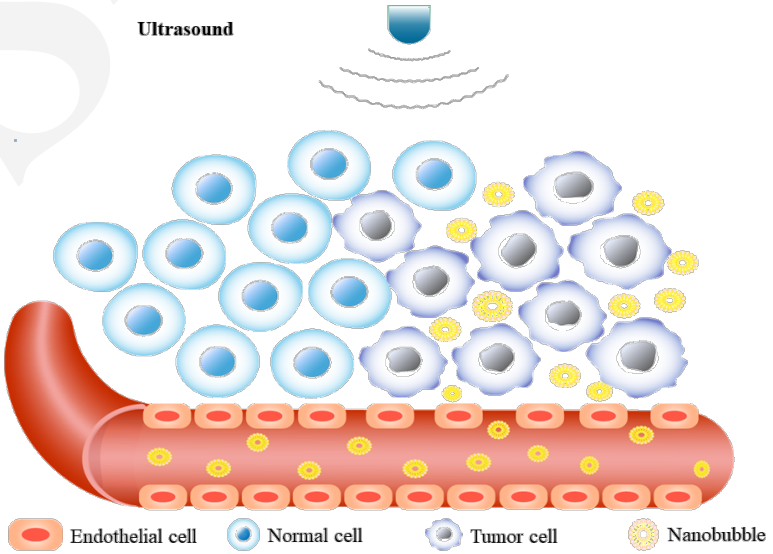
Key words: Liposome; Nanobubble; Ultrasound imaging; Carbon quantum dots

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Research Summary

This paper mainly focused on the multiplex imaging by preparing CQDs -loaded nanobubbles for ultrasonic fluorescence dual detection in the following aspects：

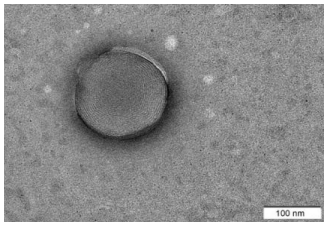
- **preparation and evaluation of CQDs-Lip**
- **ultrasound and fluorescence imaging of CQDs-Lip *in vivo***



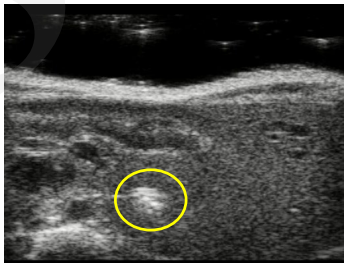
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Innovation points

- **Preparation** of the testing agent for two-way diagnosis using ultrasound contrast and fluorescence detection.



- **Optimization** of the prescription composition and preparation process of CQDs-Lip



- **Evaluation** of the efficiency and accuracy of ultrasound and fluorescence imaging with CQDs-Lip *in vivo*

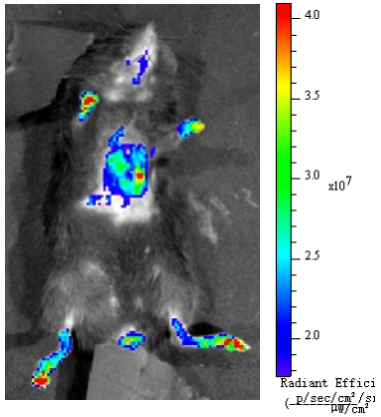


Figure 4

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