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HIFU immunotherapy: lessons from animal to clinical studies

Feng Wu

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Background/introduction

The ideal cancer therapy not only induces the death of all localized tumor cells, but also activates a systemic antitumor immunity. High intensity focused ultrasound (HIFU) has the potential to be such a treatment, as it can non-invasively ablate a targeted tumor below the skin surface, and may subsequently augment host antitumor immunity.

Methods

This talk is to introduce increasing animal and clinical evidences linking antitumor immune response to HIFU ablation, review the potential mechanisms, and discuss challenges and opportunities involved in HIFU-enhanced host antitumor immunity.

Results and conclusions

It is concluded that HIFU immunotherapy may play an important role in preventing local recurrence and metastasis of cancer after HIFU treatment.

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University of Oxford, Oxford, United Kingdom