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Abstract
The Chinese herbal medicines play important role on traditional remedy. The value of Chinese herbal medicines can be further upgraded by biotechnology. The purpose of this study was to examine the antioxidant activity and anticancer activity of fermented products with different extractions of herbs, Houttuynia cordata Thunb and Lycium halimifolium, as substrates and fermented by Antrodia Camphorata, Agaricus blazei and tea fungus. It has two ways to extract herbs. That is the extraction by grinding Houttuynia cordata Thunb （HG）and Lycium halimifolium（LG）,or the hot water extraction of Houttuynia cordata Thunb （HW）and Lycium halimifolium（LW）. The result showed that antioxidant and anticancer activities of the fermented product of LW fermented by tea fungus were higher than activities of the original LW without fermentetion and the fermented product of tea fungus without LW. Novertheless, the activities of the fermented products of Antrodia Camphorata and Agaricus blazei cultured with HG, LG, HW and LW were not enhanced. Although the antioxidant and anticancer activities of the fermented herbal extracts were not enhanced in all aspects the results do proivde certain information for further investigation.

keyword：Houttuynia cordata Thunb
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