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Chinese Medicine

Molecular targeted Cancer Therapy : Herbal Drug Development and Translational Study

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Facilitator	: Prof. Bian Zhaoxiang

Abstract

Cancer is a leading cause of mortality worldwide. A treatment of cancer currently undergoes dramatic changes. Chemotherapy has long been the standard treatment for most malignant cancer. Although chemotherapy appears to be effective in some cancer patients, the efficacy is limited in part of patients and also causes serious adverse effects. Advances in genetics and molecular biology have revealed molecular signatures of cancer. Therefore, molecular targeted cancer therapy targets molecules marking cancer properties, solving the problem in limitations of cancer treatment with chemotherapy. Nevertheless, adverse effects are yet remained to be prevented. Herbal drugs have historically used to treat many diseases in the world. Recent advances in researches for herbal medicines traditionally used have shown that herbal drugs treat cancer with no side effects. Moreover, it has been revealed that herbal drugs when used together with conventional chemotherapeutic drugs ameliorate adverse effects of chemotherapy. Our *in vitro* and *in vivo* studies have shown that newly developed herbal drug significantly treats cancer, especially highly metastatic breast cancer. Gene expression profiling further discovered gene sets altered specifically by our herbal drug. In addition, our herbal drug showed synergistic effects with anti-cancer agents conventionally used. Therefore, we suggest that our new herbal drug is useful to treat cancer without adverse effects and suitable for molecular targeted cancer therapy.

~ALL ARE WELCOME~