

Methods and Related Compositions for the Treatment of Cancer

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Technology description

The present invention is a novel intellectual property related to a formulation of over 110 off-patent compounds capable of treatment and prevention of multiple types of cancers. The unique intellectual property position not only gives us method claims but also composition of matter. Based on a customized HyperCyt and flow cytometry integrated high-throughput system, we have identified chemicals that induce intracellular vacuoles in both advanced, hormone-sensitive and hormone-refractory prostate cancer cell lines as well as non-prostate cancer cell lines. The ability of these agents to induce intracellular vacuoles is related to the induction of autophagy and ultimately causes cell death.

Background

As is widely known, cancer is a serious health concern and is a leading cause of death in the United States. Our novel testing method has resulted in the discovery of over 110 different compounds used alone or in combination that are proven useful in the prevention and treatment of late-stage prostate cancer, and have strong implications in prevention and treatment of multiple other forms of cancer.

Technology Description

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Application area

Identifying new targets and methods of cancer prevention and treatment are critical to alleviate the enormous burden cancer presents. This novel testing and compositions shows promise for prevention and treatment of numerous forms of cancer, either as independent agents for therapy or in combination with established therapies, such as radiation treatment.

Institution

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