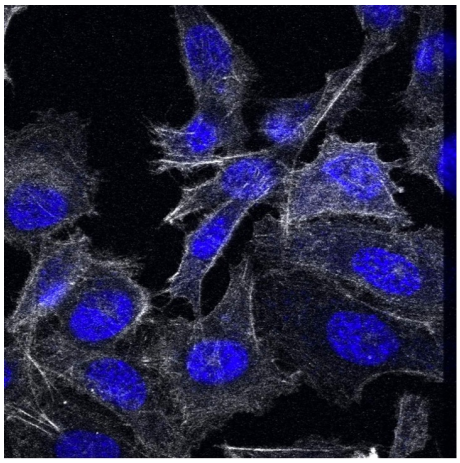

Duke File (IDF) Number

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Patent Information

Patent #: 8,664,182
Patent Title: METHODS OF INHIBITING CANCER CELL GROWTH WITH HDAC INHIBITORS AND METHODS OF SCREENING FOR HDAC10 INHIBITORS
Country United States of America

Meet the Inventors

Yao, Tso-Pang
Cui, Kai
Kawaguchi, Yoshiharu
Lai, Chun-Hsiang
Sasajima, Hitoshi

Contact For More Info

Ferguson, Christy
919-681-7581
christy.ferguson@duke.edu

Department

Pharmacology and Cancer Biology

Publication(s)

External Link(s)

• From the lab of Dr. Tso-Pang Yao

A method for treating cancer using HDAC10 inhibitors

Unmet Need

Cancer remains the second leading cause of death in the United States. Lung cancer is is responsible for the most cancer deaths, while prostate and ovary cancers are also in the top ten. HDAC inhibitors are promising anti-tumor agents that can effectively induce cancer cell death and growth arrest, but these have yet to be approved for treating these significant contributors to cancer deaths. There remains a need for improved methods of treating cancer.

Technology

Duke inventors have reported a method to treat lung, cervical, prostate and ovarian cancer. This technology can also be used to identify HDAC10 inhibitors. Specifically, the researchers have found that a combination treatment including an HDAC10 inhibitor can cause growth arrest and cell death in cancer cells for prostate, ovary, and lung. This has been demonstrated in numerous cellular studies.

Advantages

- A promising strategy for treating lung, cervical, prostate and ovarian cancers
- Offers a method for screening new drug compounds
- Demonstrated with cell studies