



Cell Lines for High Throughput Screening of Estrogenic Compounds

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The Wisconsin Alumni Research Foundation (WARF) is seeking commercial partners interested in developing cell lines for screening and characterization of the estrogen receptor specificity of compounds.

Overview

Two estrogen receptor isoforms regulate normal mammary cells in response to estrogen: ER α and ER β . ER α is currently a therapeutic target in breast cancer, and breast cancers expressing ER α are commonly treated with ER α antagonists including tamoxifen and raloxifene. It is estimated that 50 to 60 percent of triple negative breast cancers express ER β and it may also prove to be an effective therapeutic target.

The Invention

A UW-Madison researcher has developed cell lines, Hs578T-ER α Luc and Hs578T-ER β Luc, with stable estrogen receptor elements fused to luciferase genes as well as separate inducible estrogen receptor (ER) constructs. Inducible ER expression will allow the use of high throughput screening for identifying ER-selective ligands inside cells.

Applications

- These cell lines provide a high throughput format to screen for compounds that selectively activate either ER α or ER β .

Key Benefits

- Biomaterial readily available for licensing
- Valuable tools for identifying compounds that show selectivity for ER α and ER β given their sensitivity, selectivity and stability

Stage of Development

The cell lines have been used by the researcher for screening and characterization of the ER-specificity of compounds for several years.

Additional Information

For More Information About the Inventors

- [Wei Xu](#)

Tech Fields

- [Research Tools : Cell lines](#)

For current licensing status, please contact Jennifer Gottwald at jennifer@warf.org or 608-960-9854

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