

TRANSGENIC MOUSE MODEL OF HUMAN BASAL TRIPLE NEGATIVE BREAST CANCER

SUMMARY

The NCI seeks parties interested in collaborative research to further develop this mouse model of prostate and triple-negative breast cancers to study cancer biology and for preclinical testing.

REFERENCE NUMBER

E-191-2010

PRODUCT TYPE

- Research Materials

KEYWORDS

- triple-negative breast cancer
- prostate
- mouse
- murine

COLLABORATION OPPORTUNITY

This invention is available for licensing.

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DESCRIPTION OF TECHNOLOGY

The [NCI Transgenic Oncogenesis and Genomics Section of the Laboratory of Cancer Biology and Genetics](#) seeks parties interested in collaborative research to further develop this mouse model of triple-negative breast cancer (TNBC) to study cancer biology and for preclinical testing. As a Research Tool, patent protection is not being pursued for this technology.

Basal triple-negative breast cancer (TNBC) is a common form of human breast cancer for which there are no specific, targeted therapies, unlike hormone-responsive or Her2+ breast cancers. TNBC has a much worse prognosis than hormone receptor + cancer and is disproportionately high in the African-American population. NIH scientists have created and characterized a transgenic model that is currently an excellent mouse model for TNBC that shares important molecular characteristics of human TNBC making it highly useful for preclinical testing of drugs and novel therapies. This model may provide a valuable means of identifying new drugs and therapies that could be translated to human clinical trials.

The mouse model also develops prostate intraepithelial neoplasia and prostate cancer, therefore has also been used for studies of prostate cancer.

POTENTIAL COMMERCIAL APPLICATIONS

- Mouse model for pre-clinical validations

INVENTOR(S)

[Jeffrey E. Green](#) (NCI)

DEVELOPMENT STAGE

- Pre-clinical (in vivo)

PATENT STATUS

- **U.S. Filed:** Research Tool: No patent protection is sought

THERAPEUTIC AREA

- Cancer/Neoplasm