Title:New technology prevents breast cancer development in transgenic mice.

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2004 NOV 18 - (NewsRx.com & NewsRx.net) -- Parker Hughes scientists announced that they have developed a new technology capable of preventing the development of breast cancer in mice.

Results from these **research** **studies** will be published **in** two papers in the November issue of the international medical journal Arzneimittelforschung (Drug **Research**). **In** the **studies** Parker Hughes scientists found that a novel cytotoxic nucleoside analog, compound 003 (3'-Azidothymidine 5' - p-Methoxyphenyl methoxyalaninyl phospate), was well tolerated in both mice and rats without toxicity. Most notably, the scientists said that compound 003 prolonged cancer-free survival in transgenic mice, without any significant side effects and at dose levels much lower than those found to be safe in animals. These transgenic mice invariably develop HER2 positive metastatic breast cancer.

An estimated 216,000 women will be diagnosed with breast cancer this year. Women with HER2 positive breast cancer have a greater risk for recurrence of their breast cancer and an increased risk of mortality.

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