



Animal Models for the Study of Human Disease: Chapter 40. Animal Models for Studying Prevention and Treatment of Breast Cancer

JoEllen Welsh

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Breast cancer is one of the most frequently diagnosed malignancies, and despite extensive molecular and cellular research, the mortality rate remains high. Preclinical testing of new strategies to prevent the emergence of invasive disease and to effectively treat existing disease is dependent on appropriate in vivo models. The challenges with modeling breast cancer in animals include species differences in mammary gland development and sensitivity to carcinogens as well as the molecular heterogeneity of human breast cancer. This chapter focuses on the plethora of animal models that have been developed in rodents, including chemically induced protocols, transplantable and graft models, and transgenic and knockout approaches. Although no single model is suitable for all research purposes, genomic profiling has enabled the identification of rodent tumors that display molecular similarity to specific subtypes of human breast cancer. Practical aspects and key issues involved in choosing an animal model are discussed, along with the advantages and limitations of the most commonly utilized rodent models of breast cancer.

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