



Mouse Models for the Discovery of Colorectal Cancer driver genes



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In parallel with these advances **mouse models** of **cancer** have evolved into a ... **cancer genes** in a screen of the tyrosine kinase **gene** family in 182 **colorectal** ... Putative **driver** mutations were identified in 119 **genes** but 83% of mutations were ...

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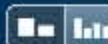
31 Mar 2015 ... Large-scale projects such as The Cancer Genome Atlas (TCGA) have sought to ... On the other hand, in vivo **mouse** 'avatars' (patient-derived xenografts) ... as a **driver** oncogene from the TCGA **colorectal cancer** 11p15.5 amplicon [2]. ... promising approach for bottom-up oncogene **modeling** and **discovery**.

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Mouse models for the discovery of colorectal cancer driver genes.

Christopher R Clark, Timothy K Starr

Abstract

Colorectal Cancer (CRC) constitutes a major public health problem as the third most commonly diagnosed and third most lethal malignancy worldwide. The prevalence and the physical accessibility to colorectal tumors have made CRC an ideal model for the study of tumor genetics. Early research efforts using patient derived CRC samples led to the discovery of several highly penetrant mutations (e.g. *APC*, *KRAS*, *MMR genes*) in both hereditary and sporadic CRC tumors. This knowledge has enabled researchers to

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colorectal cancer; disease biomarker; **mouse model**; ome and omics; target models in cancer gene validation, biomarker **discovery** and target validation, and ... CRC can be used to screen for cancer **driver genes** and disease biomarkers.

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