



Mouse Models for the Discovery of Colorectal Cancer driver genes



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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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We recently developed a **mouse model** of colonic neoplasia, using the highly efficient ...

**Name of Journal: World Journal of Gastroenterology**

**ESPS Manuscript NO: 19756**

**Manuscript Type: REVIEW**

**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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