



## Key Publications on Human Isogenics Cell-lines

Use of isogenic human cancer cells for high-throughput screening and drug discovery  
*Nat Biotechnol.* 2001 Oct; 19(10): 940-5

Targeted transgene insertion into human chromosomes by adeno-associated virus vectors  
*Nat Biotechnol.* 2002 Jul; 20 (7):735-8

Mutational analysis of the tyrosine kinome in colorectal cancers  
*Science.* 2003 May 9; 300 (5621): 949

Facile methods for generating human somatic cell gene knockouts using recombinant adeno-associated viruses  
*Nucleic Acids Res.* 2004 Jan 2; 32(1): e3

Mutational analysis of the tyrosine phosphatome in colorectal cancers  
*Science.* 2004 May 21; 304 (5674): 1164-6

Activating mutations of the noonan syndrome-associated SHP2/PTPN11 gene in solid tumors and adult acute myelogenous leukaemia  
*Cancer Res.* 2004 Dec 15; 64 (24): 8816-20

Improved methods for the generation of human gene knockout and knock-in cell lines  
*Nucleic Acids Res.* 2005 Oct 7; 33(18): e158

Colorectal cancer: mutations in a signalling pathway  
*Nature.* 2005 Aug 11; 436(7052):792

Gene copy number for EGFR and clinical response to anti-EGFR treatment in colorectal cancer: a cohort study  
*Lancet Oncol.* 2005 May; 6(5): 279-86

Somatic mutation of EGFR catalytic domain and treatment with gefitinib in colorectal cancer  
*Ann Oncol.* 2005 Nov; 16(11): 1848-9. Epub 2005 Jul 12

Kinase mutations in cancer: chinks in the enemy's armour?  
*Curr Opin Oncol.* 2006 Jan; 18(1): 69-76

Oncogenic activation of the RAS/RAF signalling pathway impairs the response of metastatic colorectal cancers to anti-epidermal growth factor receptor antibody therapies  
*Cancer Res.* 2007 Mar 15; 67(6): 2643-8

Genetic targeting of the kinase activity of the Met receptor in cancer cells  
*Proc Natl Acad Sci U S A.* 2007 Jul 3; 104(27): 11412-7. Epub 2007 Jun 26

Knock-in of Mutant K-ras in Nontumorigenic Human Epithelial Cells as a New Model for Studying K-ras-Mediated Transformation  
*Cancer Res.* 2007; 67: (18). September 15, 2007

Knock-in of oncogenic Kras does not transform mouse somatic cells but triggers a transcriptional response that classifies cancers  
*Cancer Res.* 2007 Sep 15; 67(18): 8468-76

Wild-Type BRAF Is Required for Response to Panitumumab or Cetuximab in Metastatic Colorectal Cancer  
*Journal of Clinical Oncology* Published Ahead of Print on November 10, 2008 as 10.1200/JCO.2008.18.0786

Genetic targeting of the kinase activity of the Met receptor in cancer cells  
*Proc Natl Acad Sci U S A.* 2007 Jul 3; 104(27): 11412-7. Epub 2007 Jun 26

Replacement of Normal with Mutant Alleles in the Genome of Normal Human Cells Unveils Mutation-Specific Drug Responses  
*Proc Natl Acad Sci U S A* December 30, 2008 vol. 105, no. 52

Knock-in of Mutant PI3KCA Activates Multiple Oncogenic Pathways  
*Proc Natl Acad Sci U S A* Printed early at [www.pnas.org/cgi/doi/10.1073/pnas.0813351106](http://www.pnas.org/cgi/doi/10.1073/pnas.0813351106)

PIK3CA Mutations in Colorectal Cancer Are Associated with Clinical Resistance to EGFR-Targeted Monoclonal Antibodies  
*Cancer Res.* 2009; 69: (5). March 1, 2009

A Panel of Isogenic Human Cancer Cells Suggests a Therapeutic Approach for Cancers with Inactivated p53  
*Proc Natl Acad Sci U S A* Printed early at [www.pnas.org/cgi/doi/10.1073/pnas.0813333106](http://www.pnas.org/cgi/doi/10.1073/pnas.0813333106)



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