

Resource Summary Report

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International Knockout Mouse Consortium

RRID:SCR_005574

Type: Tool

Proper Citation

International Knockout Mouse Consortium (RRID:SCR_005574)

Resource Information

URL: <http://www.knockoutmouse.org/>

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Description: Database of the international consortium working together to mutate all protein-coding genes in the mouse using a combination of gene trapping and gene targeting in C57BL/6 mouse embryonic stem (ES) cells. Detailed information on targeted genes is available. The IKMC includes the following programs: * Knockout Mouse Project (KOMP) (USA) ** CSD, a collaborative team at the Children's Hospital Oakland Research Institute (CHORI), the Wellcome Trust Sanger Institute and the University of California at Davis School of Veterinary Medicine, led by Pieter deJong, Ph.D., CHORI, along with K. C. Kent Lloyd, D.V.M., Ph.D., UC Davis; and Allan Bradley, Ph.D. FRS, and William Skarnes, Ph.D., at the Wellcome Trust Sanger Institute. ** Regeneron, a team at the VelociGene division of Regeneron Pharmaceuticals, Inc., led by David Valenzuela, Ph.D. and George D. Yancopoulos, M.D., Ph.D. * European Conditional Mouse Mutagenesis Program (EUCOMM) (Europe) * North American Conditional Mouse Mutagenesis Project (NorCOMM) (Canada) * Texas A&M Institute for Genomic Medicine (TIGM) (USA) Products (vectors, mice, ES cell lines) may be ordered from the above programs.

Abbreviations: IKMC

Resource Type: database, data or information resource

Defining Citation: [PMID:22968824](#), [PMID:21677750](#)

Keywords: gene, knock out mouse, chromosome, allele, c57bl/6, embryonic stem cell, vector, mutant, es cell, genome, targeting, gene list, FASEB list

Funding Agency: European Union, NHGRI

Resource Name: International Knockout Mouse Consortium

Resource ID: SCR_005574

Alternate IDs: nlx_146200

Ratings and Alerts

No rating or validation information has been found for International Knockout Mouse Consortium.

No alerts have been found for International Knockout Mouse Consortium.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 68 mentions in open access literature.

Listed below are recent publications. The full list is available at [FDI Lab - SciCrunch.org](#).

O'Hare EA, et al. (2019) Two Proximally Close Priority Candidate Genes for diplopodia-1, an Autosomal Inherited Craniofacial-Limb Syndrome in the Chicken: MRE11 and GPR83. The Journal of heredity, 110(2), 194.

Gimeno Brias S, et al. (2018) Interferon lambda is required for interferon gamma-expressing NK cell responses but does not afford antiviral protection during acute and persistent murine cytomegalovirus infection. PloS one, 13(5), e0197596.

Zorzi V, et al. (2017) Mouse Panx1 Is Dispensable for Hearing Acquisition and Auditory Function. Frontiers in molecular neuroscience, 10, 379.

Gerlai R, et al. (2016) Gene Targeting Using Homologous Recombination in Embryonic Stem Cells: The Future for Behavior Genetics? Frontiers in genetics, 7, 43.

Tran DD, et al. (2016) mRNA export protein THOC5 as a tool for identification of target genes for cancer therapy. Cancer letters, 373(2), 222.

Li Z, et al. (2015) The Sm protein methyltransferase PRMT5 is not required for primordial germ cell specification in mice. The EMBO journal, 34(6), 748.

Arciero E, et al. (2015) Genes Regulated by Vitamin D in Bone Cells Are Positively Selected

in East Asians. PloS one, 10(12), e0146072.

Lai KM, et al. (2015) Diverse Phenotypes and Specific Transcription Patterns in Twenty Mouse Lines with Ablated LincRNAs. PloS one, 10(4), e0125522.

Buck D, et al. (2014) Removal of immunoglobulin-like domains from titin's spring segment alters titin splicing in mouse skeletal muscle and causes myopathy. The Journal of general physiology, 143(2), 215.

Harrow JL, et al. (2014) The Vertebrate Genome Annotation browser 10 years on. Nucleic acids research, 42(Database issue), D771.

Insolera R, et al. (2014) Cortical neurogenesis in the absence of centrioles. Nature neuroscience, 17(11), 1528.

Grubb SC, et al. (2014) Mouse phenome database. Nucleic acids research, 42(Database issue), D825.

Zimprich A, et al. (2014) A robust and reliable non-invasive test for stress responsivity in mice. Frontiers in behavioral neuroscience, 8, 125.

Carss KJ, et al. (2014) Exome sequencing improves genetic diagnosis of structural fetal abnormalities revealed by ultrasound. Human molecular genetics, 23(12), 3269.

Zhang B, et al. (2014) Large-scale genetic study in East Asians identifies six new loci associated with colorectal cancer risk. Nature genetics, 46(6), 533.

Soden ME, et al. (2014) Defining functional gene-circuit interfaces in the mouse nervous system. Genes, brain, and behavior, 13(1), 2.

Bezzi M, et al. (2013) Regulation of constitutive and alternative splicing by PRMT5 reveals a role for Mdm4 pre-mRNA in sensing defects in the spliceosomal machinery. Genes & development, 27(17), 1903.

White JK, et al. (2013) Genome-wide generation and systematic phenotyping of knockout mice reveals new roles for many genes. Cell, 154(2), 452.

Simó S, et al. (2013) Rbx2 regulates neuronal migration through different cullin 5-RING ligase adaptors. Developmental cell, 27(4), 399.

Behrendt R, et al. (2013) Mouse SAMHD1 has antiretroviral activity and suppresses a spontaneous cell-intrinsic antiviral response. Cell reports, 4(4), 689.