Resource Summary Report

Generated by FDI Lab - SciCrunch.org on Apr 1, 2025

MCF-10A

RRID:CVCL_0598
Type: Cell Line

Proper Citation

(RRID:CVCL_0598)

Cell Line Information

URL: https://web.expasy.org/cellosaurus/CVCL_0598

Proper Citation: (RRID:CVCL_0598)

Sex: Female

Defining Citation: PMID:1975513, PMID:12661003, PMID:15153330, PMID:15375546, PMID:16271952, PMID:17157791, PMID:17334996, PMID:19582160, PMID:20169162, PMID:22414580, PMID:24009699, PMID:24094812, PMID:24162158, PMID:24176112, PMID:24262153, PMID:24389870, PMID:25485619, PMID:25877200, PMID:25892236, PMID:25960936, PMID:26055192, PMID:26218769, PMID:26589293, PMID:28196595, PMID:28287265, PMID:28596718, PMID:28889351, PMID:29273624, PMID:29444910, PMID:29561695, PMID:30787054, PMID:32782317, PMID:34238275

Comments: Omics: Transcriptome analysis by RNAseq., Omics: Transcriptome analysis by microarray., Omics: SNP array analysis., Omics: Protein expression by reverse-phase protein arrays., Omics: N-glycan profiling., Omics: Metabolome analysis., Omics: H4K8ac ChIP-seq epigenome analysis., Omics: H3K9me3 ChIP-seq epigenome analysis., Omics: H3K9ac ChIP-seq epigenome analysis., Omics: H3K79me2 ChIP-seq epigenome analysis., Omics: H3K4me3 ChIP-seq epigenome analysis., Omics: H3K4me1 ChIP-seq epigenome analysis., Omics: H3K36me3 ChIP-seq epigenome analysis., Omics: H3K27me3 ChIP-seq epigenome analysis., Omics: H3K27ac ChIP-seq epigenome analysis., Omics: H3K23ac ChIP-seq epigenome analysis., Omics: H2BK120ub ChIP-seq epigenome analysis., Omics: Glycoproteome analysis by proteomics., Omics: Exosome proteome analysis., Omics: DNA methylation analysis., Omics: Deep quantitative proteome analysis., Omics: Deep proteome analysis., Omics: CNV analysis., Omics: Array-based CGH., Part of: MD Anderson Cell Lines Project., Part of: ICBP43 breast cancer cell line panel., Part of: JWGray breast cancer cell line panel., Part of: Cancer Dependency Map project (DepMap) (includes Cancer Cell Line Encyclopedia - CCLE)., Group: Patented cell line.

Category: Spontaneously immortalized cell line

Name: MCF-10A

Synonyms: MCF 10A, MCF.10A, MCF10A, MCF10-A, MCF10a, MCF-10 Attached, Michigan Cancer Foundation-10A

Cross References: BTO:BTO_0001939, CLO:CLO_0007599, EFO:EFO_0001200, MCCL:MCC:0000305, AddexBio:C0006015/4976, ArrayExpress:E-MTAB-2706, ArrayExpress:E-TABM-157, ATCC:CRL-10317, BCRJ:0161, BioGRID_ORCS_Cell_line:40, BioSample:SAMN03471375, cancercelllines:CVCL_0598, CCRID:1101HUM-PUMC000406, CCRID:3101HUMSCSP575, ChEMBL-Cells:CHEMBL3307364, ChEMBL-Targets:CHEMBL614321, CLS:305026, Cosmic:1136376, Cosmic:1176649, Cosmic:2318371, Cosmic:2560254, DepMap:ACH-001357, EGA:EGAS00001000610, ENCODE:ENCBS066ENC, ENCODE:ENCBS067ENC, ENCODE:ENCBS317EPD, ENCODE:ENCBS417KGL, ENCODE:ENCBS617ENC, ENCODE:ENCBS618ENC, ENCODE:ENCBS619ENC, ENCODE:ENCBS620ENC, ENCODE:ENCBS621ENC, ENCODE:ENCBS622ENC, ENCODE:ENCBS623ENC, ENCODE:ENCBS868SSJ, GEO:GSM50033, GEO:GSM155217, GEO:GSM320171, GEO:GSM350543, GEO:GSM498022, GEO:GSM498026, GEO:GSM756371, GEO:GSM845395, GEO:GSM844584, GEO:GSM1053724, GEO:GSM1172973, GEO:GSM1172882, GEO:GSM1238116, GEO:GSM1328939, GEO:GSM1328940, GEO:GSM1328941, GEO:GSM2258704, GEO:GSM2258705, GEO:GSM2258706, GEO:GSM2258707, GEO:GSM2258708, GEO:GSM2258709, GEO:GSM2258710, GEO:GSM2258711, GEO:GSM2258712, GEO:GSM2258713, GEO:GSM2258714, GEO:GSM2258715, GEO:GSM2258716, GEO:GSM2258717, GEO:GSM2258718, GEO:GSM2258719, GEO:GSM2258720, GEO:GSM2258721, GEO:GSM2258944, GEO:GSM2258945, GEO:GSM2258946, GEO:GSM2862786, GEO:GSM2862787, GEO:GSM2862788, IARC_TP53:24292, IBRC:C10788, IGRhCellID:MCF10A, IZSLER:BS CL 174, KCB:KCB 2014066YJ, LINCS_HMS:50583, LINCS_LDP:LCL-2085, Lonza:131,

MetaboLights:MTBLS401, NCBI_Iran:C609, PharmacoDB:MCF10A_891_2019, PRIDE:PXD000309, PRIDE:PXD000593, PRIDE:PXD000691, PRIDE:PXD003370, PRIDE:PXD005339, PRIDE:PXD008222, PRIDE:PXD009668, Progenetix:CVCL_0598, PubChem_Cell_line:CVCL_0598, TOKU-E:2378, Wikidata:Q54904280

ID: CVCL_0598

Record Creation Time: 20250131T201322+0000

Record Last Update: 20250131T202917+0000

Ratings and Alerts

No rating or validation information has been found for MCF-10A.

No alerts have been found for MCF-10A.

Data and Source Information

Source: Cellosaurus

Usage and Citation Metrics

We found 6280 mentions in open access literature.

Listed below are recent publications. The full list is available at FDI Lab - SciCrunch.org.

Champagne J, et al. (2025) Adoptive T cell therapy targeting an inducible and broadly shared product of aberrant mRNA translation. Immunity, 58(1), 247.

Cheung A, et al. (2024) Anti-EGFR Antibody-Drug Conjugate Carrying an Inhibitor Targeting CDK Restricts Triple-Negative Breast Cancer Growth. Clinical cancer research : an official journal of the American Association for Cancer Research, 30(15), 3298.

Meng Y, et al. (2024) An estrogen-regulated long non-coding RNA NCALD promotes luminal breast cancer proliferation by activating GRHL2. Cancer cell international, 24(1), 49.

Silva D, et al. (2024) ?2-Adrenoceptor Activation Favor Acquisition of Tumorigenic Properties in Non-Tumorigenic MCF-10A Breast Epithelial Cells. Cells, 13(3).

Li Y, et al. (2024) Tumor cells impair immunological synapse formation via central nervous system-enriched metabolite. Cancer cell, 42(6), 985.

Hundal A, et al. (2024) Protocol for machine-learning-based 3D image analysis of nuclear envelope tubules in cultured cells. STAR protocols, 5(3), 103214.

McKenney C, et al. (2024) CDK4/6 activity is required during G2 arrest to prevent stress-

induced endoreplication. Science (New York, N.Y.), 384(6695), eadi2421.

Ayyappan V, et al. (2024) Context-dependent roles for ubiquitous mitochondrial creatine kinase CKMT1 in breast cancer progression. Cell reports, 43(4), 114121.

Belitškin D, et al. (2024) Hepsin promotes breast tumor growth signaling via the TGF?-EGFR axis. Molecular oncology, 18(3), 547.

Huang YM, et al. (2024) Exploring the multifaceted impact of lanthanides on physiological pathways in human breast cancer cells. Toxicology, 502, 153731.

Calbert ML, et al. (2024) 4'-Ethynyl-2'-Deoxycytidine (EdC) Preferentially Targets Lymphoma and Leukemia Subtypes by Inducing Replicative Stress. Molecular cancer therapeutics, 23(5), 683.

Yang X, et al. (2024) SLC35A2 expression drives breast cancer progression via ERK pathway activation. The FEBS journal, 291(7), 1483.

Hsu CC, et al. (2024) Exosomal Thomsen-Friedenreich Glycoantigen: A New Liquid Biopsy Biomarker for Lung and Breast Cancer Diagnoses. Cancer research communications, 4(8), 1933.

Treekitkarnmongkol W, et al. (2024) eEF1A2 promotes PTEN-GSK3?-SCF complex-dependent degradation of Aurora kinase A and is inactivated in breast cancer. Science signaling, 17(826), eadh4475.

MacDonald KM, et al. (2024) The proteomic landscape of genotoxic stress-induced micronuclei. Molecular cell.

Moragas N, et al. (2024) The SEMA3F-NRP1/NRP2 axis is a key factor in the acquisition of invasive traits in in situ breast ductal carcinoma. Breast cancer research : BCR, 26(1), 122.

Hidmi O, et al. (2024) TOP1 and R-loops facilitate transcriptional DSBs at hypertranscribed cancer driver genes. iScience, 27(3), 109082.

Kopparapu PR, et al. (2024) Identification and Characterization of a Small Molecule Bcl-2 Functional Converter. Cancer research communications, 4(3), 634.

Kuzmin E, et al. (2024) Evolution of chromosome-arm aberrations in breast cancer through genetic network rewiring. Cell reports, 43(4), 113988.

Cheng YW, et al. (2024) Using microfluidic and conventional platforms to evaluate the effects of lanthanides on spheroid formation. Toxicology, 508, 153931.