Resource Summary Report

Generated by RRID on Sep 9, 2026

WI-38

RRID:CVCL_0579
Type: Cell Line

Proper Citation

CLS Cat# 300428, RRID:CVCL_0579

Cell Line Information

URL: https://web.expasy.org/cellosaurus/CVCL_0579

Proper Citation: CLS Cat# 300428, RRID:CVCL_0579

Description: Cell line WI-38 is a Finite cell line with a species of origin Homo sapiens (Human)

Sex: Female

Defining Citation: PMID:211143, PMID:352912, PMID:535915, PMID:656543, PMID:699332, PMID:1031681, PMID:1249414, PMID:1756776, PMID:3016668, PMID:4203458, PMID:4329447, PMID:4695793, PMID:4817727, PMID:5347639, PMID:5668122, PMID:5801069, PMID:5834207, PMID:5956336, PMID:6256643, PMID:6409440, PMID:6538202, PMID:6887978, PMID:7065527, PMID:7972006, PMID:14064953, PMID:14218592, PMID:14315085, PMID:17395773, PMID:17792436, PMID:19896956, PMID:20215515, PMID:22984048, PMID:25063771, PMID:25903999, PMID:29546209

Comments: Anecdotal: Have been flown in space on Skylab-3 to study growth in microgravity (PubMed=352912)., Anecdotal: Leonard Hayflick when numbering diploid cell strains 'jumped' directly from WI-27 (which failed) to WI-38 (CelloPub=CLPUB00391)., Senescence: Life expectancy of 50 +- 10 population doublings. Senesces at 38 PDL (PubMed=17395773)., Characteristics: Used in many context such as senescence and aging studies., Biotechnology: Was used in the early 1970's for the production of the Human Diploid Cell Vaccine (HDCV) vaccine against rabies by Institut Merieux., Biotechnology: Used for the production of live oral adenovirus type 4 and type 7 vaccine used by the US military. Produced first by Wyeth Laboratories from 1971 to 1999 and from 2011 onward by Barr Pharmaceuticals., Biotechnology: Used for the production of RA27/3 - the first rubella virus vaccine., Population: Caucasian; Swedish., Part of: Naval Biosciences Laboratory (NBL) collection (transferred to ATCC in 1982)., Group: Vaccine production cell line., Group: Space-flown cell line (cellonaut).

Category: Finite cell line

Organism: Homo sapiens (Human)

Name: WI-38

Synonyms: Wi-38, WI 38, WI38, Wistar Institute-38, AG06814E, AG06814G, AG06814H, AG06814-J, AG06814J, AG06814-M, AG06814-N

Cross References: BTO:BTO_0000458, CLO:CLO_0009591, CLO:CLO_0009594, CLO:CLO_0035526, CLO:CLO_0035534, EFO:EFO_0001260, MCCL:MCC:0000485, CLDB:cl4703, CLDB:cl4704, CLDB:cl4705, AddexBio:T0016037/5007, ArrayExpress:E-MTAB-38, ATCC:CCL-75, ATCC:CRL-7728, BioSample:SAMN01821606, BioSample:SAMN01821721, BioSample:SAMN03471285, cancercelllines:CVCL_0579, CCRID:1101HUM-PUMC000210, CCRID:1102HUM-NIFDC00067, CCRID:3101HUMGNHu42, CCRID:3101HUMSCSP521, CCRID:4201HUM-CCTCC00016, CCTCC:GDC0016, ChEMBL-Cells:CHEMBL3307476, ChEMBL-Cells:CHEMBL3307614, ChEMBL-Targets:CHEMBL612806, ChEMBL-Targets:CHEMBL614391, CLS:300428, Coriell:AG06814-J, Coriell:AG06814-M, Coriell:AG06814-N, ECACC:90020107, GEO:GSE12450, GEO:GSE33710, GEO:GSM827323, GEO:GSM1022634, GEO:GSM1022637, GEO:GSM1022647, GEO:GSM1022655, GEO:GSM1887928, GEO:GSM1887984, IGRhCellID:WI38, IZSLER:BS CL 90, JCRB:IFO50075, JCRB:JCRB9017, KCB:KCB 200556YJ, KCLB:10075, Lonza:495, Progenetix:CVCL_0579, PubChem_Cell_line:CVCL_0579, RCB:RCB0702, RCB:RCB0704, TKG:TKG 0360, Wikidata:Q7950532

ID: CVCL_0579

Vendor: CLS

Catalog Number: 300428

Record Creation Time: 20250130T073031+0000

Record Last Update: 20260905T184220+0000

Ratings and Alerts

No rating or validation information has been found for WI-38.

Warning: Discontinued: ATCC; CRL-7728
Anecdotal: Have been flown in space on Skylab-3 to study growth in microgravity (PubMed=352912)., Anecdotal: Leonard Hayflick when numbering diploid cell strains 'jumped' directly from WI-27 (which failed) to WI-38 (CelloPub=CLPUB00391)., Senescence: Life expectancy of 50 +- 10 population doublings. Senesces at 38 PDL (PubMed=17395773)., Characteristics: Used in many context such as senescence and aging studies., Biotechnology: Was used in the early 1970's for the production of the Human Diploid Cell Vaccine (HDCV) vaccine against rabies by Institut Merieux., Biotechnology: Used for the production of live oral adenovirus type 4 and type 7 vaccine used by the US military. Produced first by Wyeth Laboratories from 1971 to 1999 and from 2011 onward by Barr Pharmaceuticals., Biotechnology: Used for the production of RA27/3 - the first rubella virus vaccine., Population: Caucasian; Swedish., Part of: Naval Biosciences Laboratory (NBL) collection (transferred to ATCC in 1982)., Group: Vaccine production cell line., Group: Space-flown cell line (cellonaut). Warning: Discontinued:

JCRB; JCRB9017
Anecdotal: Have been flown in space on Skylab-3 to study growth in microgravity (PubMed=352912)., Anecdotal: Leonard Hayflick when numbering diploid cell strains 'jumped' directly from WI-27 (which failed) to WI-38 (CelloPub=CLPUB00391)., Senescence: Life expectancy of 50 +- 10 population doublings. Senesces at 38 PDL (PubMed=17395773)., Characteristics: Used in many context such as senescence and aging studies., Biotechnology: Was used in the early 1970's for the production of the Human Diploid Cell Vaccine (HDCV) vaccine against rabies by Institut Merieux., Biotechnology: Used for the production of live oral adenovirus type 4 and type 7 vaccine used by the US military. Produced first by Wyeth Laboratories from 1971 to 1999 and from 2011 onward by Barr Pharmaceuticals., Biotechnology: Used for the production of RA27/3 - the first rubella virus vaccine., Population: Caucasian; Swedish., Part of: Naval Biosciences Laboratory (NBL) collection (transferred to ATCC in 1982)., Group: Vaccine production cell line., Group: Space-flown cell line (cellonaut). Warning: Discontinued:
KCLB; 10075
Anecdotal: Have been flown in space on Skylab-3 to study growth in microgravity (PubMed=352912)., Anecdotal: Leonard Hayflick when numbering diploid cell strains 'jumped' directly from WI-27 (which failed) to WI-38 (CelloPub=CLPUB00391)., Senescence: Life expectancy of 50 +- 10 population doublings. Senesces at 38 PDL (PubMed=17395773)., Characteristics: Used in many context such as senescence and aging studies., Biotechnology: Was used in the early 1970's for the production of the Human Diploid Cell Vaccine (HDCV) vaccine against rabies by Institut Merieux., Biotechnology: Used for the production of live oral adenovirus type 4 and type 7 vaccine used by the US military. Produced first by Wyeth Laboratories from 1971 to 1999 and from 2011 onward by Barr Pharmaceuticals., Biotechnology: Used for the production of RA27/3 - the first rubella virus vaccine., Population: Caucasian; Swedish., Part of: Naval Biosciences Laboratory (NBL) collection (transferred to ATCC in 1982)., Group: Vaccine production cell line., Group: Space-flown cell line (cellonaut).

Data and Source Information

Source: Cellosaurus

Usage and Citation Metrics

We found 1103 mentions in open access literature.

Listed below are recent publications. The full list is available at RRID .

Zhou Y, et al. (2026) Murine Embryonic Stem Cells Possess Distinct E2F Activity That Activates Tumor Suppressor Promoter Elements. Genes to cells : devoted to molecular & cellular mechanisms, 31(3), e70121.

Tan GYT, et al. (2026) BMAL2 is a druggable target for ovarian clear cell carcinoma (OCCC). EMBO molecular medicine, 18(5), 1933.

Machii S, et al. (2026) Senescent cells acquire resistance to cystine deprivation-induced ferroptosis via the PPAR??-PDK4-phosphorylated PDH axis. FEBS letters, 600(12), 1801.

Zhou Y, et al. (2026) Distinct Regulation of the ARF and TAp73 Tumor Suppressor Genes by the Transcription Factor E2F1 Enables Discrimination of Cancer Cells from Normal Growing Cells. Cells, 15(1).

Tankka AT, et al. (2026) Integrative CRISPR Screening and RNA Analyses Discover an Essential Role for PUF60 Interactions with 3' Splice Sites in Cancer Progression. Cancer research, 86(7), 1586.

Zhang M, et al. (2026) Decreased Glucose Metabolism and Declined Chaperones Are Unique Features Required for the Survival of Senescent Fibroblasts and Pyruvate Dehydrogenase Is a Potent Senolytic Target. Aging cell, 25(3), e70434.

Classon J, et al. (2025) Cytomegalovirus infection is common in prostate cancer and antiviral therapies inhibit progression in disease models. Molecular oncology.

Abdulmalek SA, et al. (2025) Thymoquinone-conjugated liposomes improve cytotoxic and proapoptotic effects against hepatocellular cancer by altering the EGFR/ERK/MEK signaling axis. Discover oncology, 16(1), 1924.

Chen Q, et al. (2025) A Novel Quinolone JH62 (E-2-(Tridec-4-en-1-yl)-quinolin-4(1H)-one) from Pseudomonas aeruginosa Exhibits Potent Anticancer Activity. Microorganisms, 14(1).

Coquelet H, et al. (2025) A non-canonical role for the tyrosyl tRNA synthetase: YARS regulates senescence induction and escape and controls the transcription of LIN9. The FEBS journal, 292(7), 1602.

Buitkamp LF, et al. (2025) Comprehensive Genetic and Molecular Characterization Confirms Hepatic Stellate Cell Origin of the Immortal Col-GFP HSC Line. International journal of molecular sciences, 26(16).

van de Grint J, et al. (2025) A Reporter Platform to Study Therapy-Induced Senescence in Live Cancer Cells. Small methods, 9(12), e01270.

Liu Y, et al. (2025) DNA hypomethylation promotes UHRF1-and SUV39H1/H2-dependent crosstalk between H3K18ub and H3K9me3 to reinforce heterochromatin states. Molecular cell, 85(2), 394.

Madej M, et al. (2025) PUS10-induced tRNA fragmentation impacts retrotransposon-driven inflammation. Cell reports, 44(6), 115735.

Gudoityte G, et al. (2025) Systematic profiling of cancer-fibroblast interactions reveals drug combinations in ovarian cancer. Molecular oncology, 19(9), 2574.

Harper NW, et al. (2025) RNA Pol II inhibition activates cell death independently from the loss of transcription. Cell.

Bardia A, et al. (2024) Antibody-Drug Conjugate Sacituzumab Govitecan Enables a Sequential TOP1/PARP Inhibitor Therapy Strategy in Patients with Breast Cancer. Clinical cancer research : an official journal of the American Association for Cancer Research, 30(14), 2917.

Jagannathan NS, et al. (2024) Multi-omic analysis of bat versus human fibroblasts reveals altered central metabolism. eLife, 13.

Stuart A, et al. (2024) Replicative senescence is ATM driven, reversible, and accelerated by hyperactivation of ATM at normoxia. bioRxiv : the preprint server for biology.

Kwong TT, et al. (2024) PEG-BCT-100 and Canavanine Synergistically Induce Apoptosis in Arginine Biosynthetic Enzyme-Deficient Pancreatic Cancer. Cancer research communications, 4(12), 3180.