

Resource Summary Report

Generated by [NIF](#) on Sep 1, 2026

U-937

RRID:CVCL_0007

Type: Cell Line

Proper Citation

RRID:CVCL_0007

Cell Line Information

URL: https://web.expasy.org/cellosaurus/CVCL_0007

Proper Citation: RRID:CVCL_0007

Description: Cell line U-937 is a Cancer cell line with a species of origin Homo sapiens (Human)

Sex: Male

Disease: Adult acute monocytic leukemia

Defining Citation: [PMID:178611](#), [PMID:1083890](#), [PMID:1571549](#), [PMID:1913629](#), [PMID:2140233](#), [PMID:2243057](#), [PMID:2985879](#), [PMID:3159941](#), [PMID:3874327](#), [PMID:6091813](#), [PMID:6582512](#), [PMID:7759961](#), [PMID:8300570](#), [PMID:8547074](#), [PMID:8558913](#), [PMID:8558920](#), [PMID:8643484](#), [PMID:9371509](#), [PMID:9510473](#), [PMID:9685479](#), [PMID:9738977](#), [PMID:10352142](#), [PMID:10676951](#), [PMID:10739008](#), [PMID:10966170](#), [PMID:11226526](#), [PMID:11416159](#), [PMID:11701946](#), [PMID:12393283](#), [PMID:15637111](#), [PMID:15843827](#), [PMID:16311011](#), [PMID:16337770](#), [PMID:16408098](#), [PMID:16957166](#), [PMID:20801507](#), [PMID:21269460](#), [PMID:22460905](#), [PMID:25485619](#), [PMID:25877200](#), [PMID:26589293](#), [PMID:29787063](#), [PMID:30285677](#), [PMID:30629668](#), [PMID:30894373](#), [PMID:31068700](#), [PMID:31160637](#), [PMID:31978347](#), [PMID:33317567](#), [PMID:34707142](#), [PMID:36982453](#)

Comments: Anecdotal: Have been flown in space on shuttle flight STS-76 and on Shenzhou-8 to study growth and cytoskeletal changes in microgravity (PubMed=10352142; DOI=10.1016/j.actaastro.2013.06.007)., Karyotypic information: Has lost chromosome Y., Characteristics: Can be induced to differentiate into macrophages by several factors such as phorbol ester (PMA) and 12-O-tetradecanoyl-13-phorbol acetate (TPA)., Population: Caucasian., Part of: LL-100 blood cancer cell line panel., Part of: Human Protein Atlas, Cell Atlas panel., Part of: Cancer Dependency Map project (DepMap) (includes Cancer Cell Line Encyclopedia - CCLE)., Problematic cell line: Partially contaminated. Some ATCC stocks were cross-contaminated by K-562 initially (PubMed=7759961). The problem was corrected and subsequent stocks have been

confirmed to carry only U-937..., Group: Space-flown cell line (cellonaut).

Category: Cancer cell line

Organism: Homo sapiens (Human)

Name: U-937

Synonyms: U937, U 937

Cross References: BTO:BTO_0001412, CLO:CLO_0009450, CLO:CLO_0009465, EFO:EFO_0001257, MCCL:MCC:0000470, CLDB:cl4597, CLDB:cl4599, CLDB:cl4600, CLDB:cl4601, CLDB:cl4602, CLDB:cl4603, CLDB:cl4604, CLDB:cl4605, CLDB:cl4606, CLDB:cl4608, AddexBio:C0003005/72, ArrayExpress:E-MTAB-2706, ArrayExpress:E-MTAB-2770, ArrayExpress:E-MTAB-7721, ArrayExpress:E-MTAB-7722, ATCC:CRL-1593, ATCC:CRL-1593.2, BCRC:60435, BCRJ:0242, BioGRID_ORCS_Cell_line:154, BioSample:SAMN03472409, BioSample:SAMN03473173, BioSample:SAMN03473567, BioSample:SAMN10988180, cancercellines:CVCL_0007, CCRID:1101HUM-PUMC000059, CCRID:3101HUMTCHu159, CCRID:4201HUM-CCTCC00080, CCTCC:GDC0080, Cell_Model_Passport:SIDM01195, ChEMBL-Cells:ChEMBL3308006, ChEMBL-Targets:ChEMBL612794, CLS:300368, Cosmic:787483, Cosmic:798666, Cosmic:821044, Cosmic:850382, Cosmic:852000, Cosmic:919123, Cosmic:922162, Cosmic:932770, Cosmic:947364, Cosmic:975307, Cosmic:991558, Cosmic:994178, Cosmic:999781, Cosmic:1012127, Cosmic:1019837, Cosmic:1067446, Cosmic:1070690, Cosmic:1078726, Cosmic:1082516, Cosmic:1086353, Cosmic:1089523, Cosmic:1107178, Cosmic:1127260, Cosmic:1150904, Cosmic:1176581, Cosmic:1181605, Cosmic:1191692, Cosmic:1465967, Cosmic:1523828, Cosmic:1524826, Cosmic:1582388, Cosmic:1601066, Cosmic:1604865, Cosmic:1995661, Cosmic:2301570, Cosmic:2361376, Cosmic:2750876, DepMap:ACH-000406, DSMZ:ACC-5, DSMZCellDive:ACC-5, ECACC:85011440, EGA:EGAS00001000610, EGA:EGAS00001002554, GEO:GSE66854, GEO:GSM2020, GEO:GSM236809, GEO:GSM236845, GEO:GSM482491, GEO:GSM743413, GEO:GSM887724, GEO:GSM888818, GEO:GSM1028244, GEO:GSM1028245, GEO:GSM1374975, GEO:GSM1670560, GEO:GSM7701385, GEO:GSM7701386, GEO:GSM7701402, GEO:GSM7701403, IARC_TP53:2199, ICLC:HTL94002, IPD-IMGT/HLA:11507, IZSLER:BS TCL 73, JCRB:IFO50038, JCRB:JCRB9021, KCB:KCB 200676YJ, KCLB:21593.1, LiGeA:CCLE_826, LINCS_HMS:50869, LINCS_LDP:LCL-1125, Lonza:135, MeSH:D020298, NCBI_Iran:C130, PharmacDB:U937_1624_2019, PRIDE:PXD001521, PRIDE:PXD001522, PRIDE:PXD001523, Progenetix:CVCL_0007, PubChem_Cell_line:CVCL_0007, RCB:RCB1978, TKG:TKG 0279, TOKU-E:3382, Ubigen:YC-C021, Wikidata:Q7863610

ID: CVCL_0007

Record Creation Time: 20220427T221639+0000

Record Last Update: 20260830T000148+0000

Ratings and Alerts

No rating or validation information has been found for U-937.

Warning: Problematic cell line: Partially contaminated. Some ATCC stocks were cross-contaminated by K-562 initially (PubMed=7759961). The problem was corrected and subsequent stocks have been confirmed to carry only U-937.

Registration: International Cell Line Authentication Committee, Register of Misidentified Cell Lines; ICLAC-00168.

Anecdotal: Have been flown in space on shuttle flight STS-76 and on Shenzhou-8 to study growth and cytoskeletal changes in microgravity (PubMed=10352142;

DOI=10.1016/j.actaastro.2013.06.007)., Karyotypic information: Has lost chromosome Y.,

Characteristics: Can be induced to differentiate into macrophages by several factors such as phorbol ester (PMA) and 12-O-tetradecanoyl-13-phorbol acetate (TPA)., Population:

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Cell Line Encyclopedia - CCLE)., Problematic cell line: Partially contaminated. Some

ATCC stocks were cross-contaminated by K-562 initially (PubMed=7759961). The

problem was corrected and subsequent stocks have been confirmed to carry only U-937...

Group: Space-flown cell line (cellonaut). **Warning:** Discontinued: RCB; RCB1978

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Group: Space-flown cell line (cellonaut). **Warning:** Discontinued: ATCC; CRL-1593

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Group: Space-flown cell line (cellonaut). **Warning:** Discontinued: TKG; TKG 0279

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Data and Source Information

Source: [CelloSaurus](#)

Usage and Citation Metrics

We found 2953 mentions in open access literature.

Listed below are recent publications. The full list is available at [NIF](#) .

Dutka P, et al. (2026) In situ molecular organization and heterogeneity of the Legionella Dot/Icm T4SS. FEBS letters, 600(11), 1589.

Tripathi C, et al. (2026) Nanobody-Engineered CLL-1 CAR T Cells: Optimizing Tumor-Specific Cytotoxicity and Minimizing Off-Tumor Toxicity. Cancer research communications, 6(3), 528.

Ma X, et al. (2026) IAP-based biodegraders can convert necroptosis to apoptosis and eliminate cancer driving protein complexes. Cell chemical biology, 33(4), 553.

Spinella JF, et al. (2026) TP53-mutant AML with ribosomal gene loss exhibits impaired protein translation and sensitivity to HSP90 inhibition. Science advances, 12(20), eaed7122.

Tan KE, et al. (2026) LMO1 expression in neuroblastoma cells reprograms tumor-associated macrophages to promote metastasis. iScience, 29(3), 115144.

Zhang J, et al. (2026) Tumor-associated macrophages educated by IGSF9 exhibit a senescence-associated secretory phenotype to promote tumor immune escape. Journal for immunotherapy of cancer, 14(1).

Wu S, et al. (2026) Inhibition of CDK9 enhances AML cell death induced by combined venetoclax and azacitidine. Molecular oncology, 20(2), 555.

Huang Y, et al. (2026) ALDH3A2-mediated fatty acid synthesis induces ferroptosis and AML drug resistance. iScience, 29(6), 116202.

Uible EE, et al. (2026) Scaffolding-dependent CASP1 constrains excessive cell-intrinsic inflammatory signaling in leukemia. Cell chemical biology, 33(1), 59.

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Kumar A, et al. (2026) Structure-Guided Synthetic Peptide Targeting Nucleolus and Neural Progenitor Protein Nuclear Import Impairs Ribosome Biogenesis and Cancer Cell Proliferation. Chembiochem : a European journal of chemical biology, 27(3), e202500799.

Muenkel M, et al. (2026) *Listeria*-infected macrophages promote biomechanical alterations in endothelial cell monolayers for transmigration. *Cell reports*, 45(3), 117031.

Bian X, et al. (2026) Senolytics, dasatanib plus quercetin, reduce kidney inflammation, senescent cell abundance, and injury while restoring geroprotective factors in murine diabetic kidney disease. *EBioMedicine*, 124, 106124.

Sch??fer S, et al. (2026) ACSL4-associated lipid metabolism is a distinct therapeutic vulnerability in KMT2A-rearranged acute myeloid leukemia. *Cell reports*, 45(3), 117010.

Fujino T, et al. (2026) Development of CAR T cells Targeting a Surface RNA Binding Protein for the Treatment of Acute Leukemias. *Cancer discovery*.

Han X, et al. (2026) A ketogenesis-ferroptosis axis maintains leukemic stem cell survival and leukemia progression. *Cell stem cell*, 33(6), 1016.

Hui L, et al. (2025) IGSF9-targeted therapy inhibits the progression of acute myeloid leukemia. *Blood advances*, 9(16), 4217.

Han C, et al. (2025) An Isoform-Specific RUNX1C-BTG2 Axis Governs AML Quiescence and Chemoresistance. *Blood cancer discovery*, 6(5), 464.

Huang A, et al. (2025) Exosomal microRNA-20b-5p contributes to cytarabine resistance in acute myeloid leukemia via the microtubule-associated serine/threonine kinase-like-phosphatidylinositol 3-kinase-protein kinase B signaling axis. *International journal of biological macromolecules*, 333(Pt 2), 148750.