

Resource Summary Report

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

HepaRG

RRID:CVCL_9720

Type: Cell Line

Proper Citation

RRID:CVCL_9720

Cell Line Information

URL: https://web.expasy.org/cellosaurus/CVCL_9720

Proper Citation: RRID:CVCL_9720

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

Sex: Female

Disease: Hepatitis C infection

Defining Citation: [PMID:12432097](#), [PMID:17241619](#), [PMID:17393521](#), [PMID:20228232](#), [PMID:20645056](#), [PMID:21414303](#), [PMID:22568886](#), [PMID:22594799](#), [PMID:22643240](#), [PMID:22857383](#), [PMID:23887712](#), [PMID:26160117](#), [PMID:26694163](#), [PMID:27027780](#), [PMID:27169750](#), [PMID:27780834](#), [PMID:27975304](#), [PMID:28904299](#), [PMID:30795634](#), [PMID:31063779](#), [PMID:33441761](#)

Comments: Miscellaneous: This cell line is exclusively produced and controlled by Biopredic International and owned by Inserm. BioPredic sells undifferentiated cell line (HPR101) that can be expanded, passaged, and frozen in-house to prepare a cell bank and differentiated ready-to-use cells, HPR116 (Cellosaurus=CVCL_WL73) that can be used immediately or in a few days after thawing, as a single-use disposable product (Biopredic)., Anecdotal: The 'RG' in the cell name stands for 'Rumin' and 'Gripon', the two scientists that were influential in the establishment of this cell line., Characteristics: Cell line main applications are sugar and lipid metabolism, physiopathology; drug metabolism and toxicology and viral infection., Characteristics: Can be induced to differentiate into hepatocyte-like cells by exposure to DMSO., Group: Patented cell line.

Category: Cancer cell line

Organism: Homo sapiens (Human)

Name: HepaRG

Synonyms: Hepa-RG

Cross References: BTO:BTO_0005736, EFO:EFO_0001186, ChEMBL-Cells:ChEMBL4630773, ChEMBL-Targets:ChEMBL4630781, Cosmic:2162524, MetaboLights:MTBLS78, MetaboLights:MTBLS4063, Millipore:C103485, PRIDE:PXD001107, PRIDE:PXD004752, PRIDE:PXD006267, PRIDE:PXD010304, PubChem_Cell_line:CVCL_9720, Wikidata:Q54882834

ID: CVCL_9720

Record Creation Time: 20220427T220335+0000

Record Last Update: 20260829T233658+0000

Ratings and Alerts

No rating or validation information has been found for HepaRG.

Warning: Discontinued: Millipore; C103485

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Data and Source Information

Source: [Cellosaurus](#)

Usage and Citation Metrics

We found 547 mentions in open access literature.

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

Li C, et al. (2026) Scavenger receptor class F member 2 is an intracellular receptor for hepatitis B virus. Cell, 189(14), 4454.

Xu D, et al. (2026) Nanoreactor-enabled PANoptosis via ZBP1 activation potentiates immunotherapy in non-small cell lung cancer. Biomaterials, 328, 123894.

Dusek J, et al. (2025) The hypolipidemic effect of MI-883, the combined CAR agonist/PXR antagonist, in diet-induced hypercholesterolemia model. Nature communications, 16(1), 1418.

Liu Y, et al. (2025) Hepatitis B virus core/capsid protein induces hepatocellular carcinoma progression via long non-coding RNA KCNQ1OT1/miR-335-5p/CDC7 axis. *Translational cancer research*, 14(6), 3319.

Graham RE, et al. (2025) Single-cell morphological tracking of cell states to identify small-molecule modulators of liver differentiation. *iScience*, 28(2), 111871.

Kupke P, et al. (2024) Proteolytic shedding of CD46 from human hepatocytes indicates liver stress. *Heliyon*, 10(23), e40841.

Chen S, et al. (2024) YTHDF3-mediated m6A modification of NKD1 regulates hepatocellular carcinoma invasion and metastasis by activating the WNT/ β -catenin signaling axis. *Experimental cell research*, 442(1), 114192.

Bitterer F, et al. (2024) Soluble CD46 as a diagnostic marker of hepatic steatosis. *EBioMedicine*, 104, 105184.

Qiu J, et al. (2024) Hypoxia-responsive lncRNA MIR155HG promotes PD-L1 expression in hepatocellular carcinoma cells by enhancing HIF-1 α mRNA stability. *International immunopharmacology*, 136, 112415.

Le Guilcher C, et al. (2023) Engineered human liver based on pullulan-dextran hydrogel promotes mice survival after liver failure. *Materials today. Bio*, 19, 100554.

Kupke P, et al. (2023) Immunomodulation of Natural Killer Cell Function by Ribavirin Involves TYK-2 Activation and Subsequent Increased IFN- γ Secretion in the Context of In Vitro Hepatitis E Virus Infection. *Cells*, 12(3).

Ly CY, et al. (2023) Inhibitors of One or More Cellular Aurora Kinases Impair the Replication of Herpes Simplex Virus 1 and Other DNA and RNA Viruses with Diverse Genomes and Life Cycles. *Microbiology spectrum*, 11(1), e0194322.

Müller FA, et al. (2023) In vitro to in vivo extrapolation and high-content imaging for simultaneous characterization of chemically induced liver steatosis and markers of hepatotoxicity. *Archives of toxicology*, 97(6), 1701.

Wuerger LTD, et al. (2023) Okadaic Acid Activates JAK/STAT Signaling to Affect Xenobiotic Metabolism in HepaRG Cells. *Cells*, 12(5).

Malinowska JM, et al. (2023) Derivation of metabolic point of departure using high-throughput in vitro metabolomics: investigating the importance of sampling time points on benchmark concentration values in the HepaRG cell line. *Archives of toxicology*, 97(3), 721.

Fragki S, et al. (2023) New approach methodologies: A quantitative in vitro to in vivo extrapolation case study with PFASs. *Food and chemical toxicology : an international journal published for the British Industrial Biological Research Association*, 172, 113559.

Quintás G, et al. (2023) The assessment of the potential hepatotoxicity of new drugs by in vitro metabolomics. *Frontiers in pharmacology*, 14, 1155271.

Smiriglia A, et al. (2023) Sex difference in liver diseases: How preclinical models help to dissect the sex-related mechanisms sustaining NAFLD and hepatocellular carcinoma. *iScience*, 26(12), 108363.

Wang Z, et al. (2023) XPO1 intensifies sorafenib resistance by stabilizing acetylation of NPM1 and enhancing epithelial-mesenchymal transition in hepatocellular carcinoma. *Biomedicine & pharmacotherapy = Biomedecine & pharmacotherapie*, 160, 114402.

Wang Z, et al. (2023) IL-33/ST2 antagonizes STING signal transduction via autophagy in response to acetaminophen-mediated toxicological immunity. *Cell communication and signaling : CCS*, 21(1), 80.