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Citations by cell type

# Countess® Automated Cell Counter

## Citations by Cell Type

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### Human Cells

Cell type	Cell Line or Primary cells	Reference
Adipose stromal	Primary	Lin S-D. et al. 2011. Adipose Tissue from Uncultured Human Adipose Stromal Vascular Fraction on Collagen Matrix and Gelatin Sponge Scaffolds. <i>Tissue Eng. Part A</i> . doi:10.1089/ten.tea.2010.0688.
Blood, mononuclear	Primary	Koutna I. et al. 2010. Proliferation and differentiation potential of CD133+ and CD34+ populations from the bone marrow and mobilized peripheral blood. <i>Ann. Hematol.</i> 90:127-137.
		Palumbo R. et al. 2009. Src family kinases are necessary for cell migration induced by extracellular HMGB1. <i>J. Leukoc Biol.</i> 86:617-623.
		Lisowska H. et al. 2010. Radiation-induced DNA damage and repair in human $\gamma\delta$ and $\alpha\beta$ T-lymphocytes analysed by the alkaline comet assay. <i>Genome Integr.</i> doi:10.1186/2041-9414-1-8.
		Ubagai T. et al. 2009. Downregulation of immunomodulator gene expression in LPS-stimulated human polymorphonuclear leukocytes by the proton pump inhibitor lansoprazole. <i>J Infect Chemother.</i> 15:374-379.
Blood, whole	Primary	Alanio C. et al. 2009. Enumeration of human antigen-specific naive CD8+ T cells reveals conserved precursor frequencies. <i>Blood.</i> 115:3718-3725.
		O'Neill JS and Reddy AB. 2011. Circadian clocks in human red blood cells. <i>Nature.</i> 469:498-503.
		Sáez-Ciri6n A. et al. 2010. Ex vivo T cell-based HIV suppression assay to evaluate HIV-specific CD8+ T-cell responses. <i>Nature Prot.</i> 5:1033-1041.
		Hall Jr. N. et al. 2010. The hydroxyl functional group of N-(4-hydroxyphenyl) retinamide mediates cellular uptake and cytotoxicity in premalignant and malignant human epithelial cells. <i>Free Radic Biol Med.</i> 49:2001-2009.
Breast adenocarcinoma	MCF-7	Hall Jr. N. et al. 2010. The hydroxyl functional group of N-(4-hydroxyphenyl) retinamide mediates cellular uptake and cytotoxicity in premalignant and malignant human epithelial cells. <i>Free Radic Biol Med.</i> 49:2001-2009.
Burkitt lymphoma	Namalwa	Bronstein T. et al. 2011. Cell derived liposomes expressing CCR5 as a new targeted drug-delivery system for HIV infected cells. <i>J. Control Release.</i> doi:10.1016/j.jconrel.2011.02.023.
Cardiac microvascular endothelial	Primary	Caolo V. et al. 2010. Feed-forward signaling by membrane-bound ligand receptor circuit: the case of NOTCH DELTA-like 4 ligand in endothelial cells. <i>J Biol Chem.</i> 285:40681-40689.

Cell type	Cell Line or Primary cells	Reference
Cervical carcinoma	HeLa	Ohsakaya S. et al. 2011. Knockdown of DAPIT (diabetes-associated protein in insulin-sensitive tissue) results in loss of ATP synthase in mitochondria. <i>J Biol Chem.</i> doi: 10.1074/jbc.M110.198523.
		Mongiati M. et al. 2010. The Extracellular Matrix Glycoprotein Elastin Microfibril Interface Located Protein 2: A Dual Role in the Tumor Microenvironment. <i>Neoplasia.</i> 12:294-304.
Colorectal carcinoma	Caco-2	Moussa O. et al. 2009. PDEF is a negative regulator of colon cancer cell growth and migration. <i>J. Cell. Biochem.</i> 108:1389-1398.
	DLD-1	Moussa O. et al. 2009. PDEF is a negative regulator of colon cancer cell growth and migration. <i>J. Cell. Biochem.</i> 108:1389-1398.  Zentner GE. et al. 2010. CHD7 functions in the nucleolus as a positive regulator of ribosomal RNA biogenesis. <i>Hum Mol Genet.</i> 19:3491-3501.
	HCT116	Zacharias J. et al. 2011. p53 inhibits adeno-associated viral vector integration. <i>Hum Gene Ther.</i> doi:10.1089/hum.2011.006.
	LIM1215	Williams BS. et al. 2010. Mediated Decay Resistant Mutations Are a Source of Expressed Mutant Proteins in Colon Cancer Cell Lines with Microsatellite Instability. <i>PLoS ONE.</i> doi:10.1371/journal.pone.0016012.
	LIM1899	
	LIM1863	
	LIM2463	
	LIM2099	
	LIM2405	
	LIM2408	
	LIM2537	
	LIM2550	
	LIM2551	
	LoVo	Moussa O. et al. 2009. PDEF is a negative regulator of colon cancer cell growth and migration. <i>J. Cell. Biochem.</i> 108:1389-1398.
	SW680	
Corneal epithelial	HCE7	Ohashi S. et al. 2010. Epidermal Growth Factor Receptor and Mutant p53 Expand an Esophageal Cellular Subpopulation Capable of Epithelial-to-Mesenchymal Transition through ZEB Transcription Factors. <i>Cancer Res.</i> 15:4174-4184.

## Human Cells (cont'd)

Cell type	Cell Line or Primary cells	Reference	Cell type	Cell Line or Primary cells	Reference
Cutaneous squamous cell carcinoma	COLO 16	Hail N. Jr et al. 2010. Teriflunomide encourages cytostatic and apoptotic effects in premalignant and malignant cutaneous keratinocytes. <i>Apoptosis</i> . 15:1234-1246.  Hail N. Jr et al. 2010. The hydroxyl functional group of N-(4-hydroxyphenyl)retinamide mediates cellular uptake and cytotoxicity in premalignant and malignant human epithelial cells. <i>Free Rad Biol Med</i> . 49:2001-2009.	Fibroblast, adult dermal	Primary	Churko JM. et al. 2011. Human dermal fibroblasts derived from oculodentodigital dysplasia patients suggest that patients may have wound-healing defects. <i>Hum Mutat</i> . 32:456-466.  Mongiat M. et al. 2010. The Extracellular Matrix Glycoprotein Elastin Microfibril Interface Located Protein 2: A Dual Role in the Tumor Microenvironment. <i>Neoplasia</i> . 12:294-304.
	SRB-12	Hail N. Jr et al. 2010. The hydroxyl functional group of N-(4-hydroxyphenyl)retinamide mediates cellular uptake and cytotoxicity in premalignant and malignant human epithelial cells. <i>Free Rad Biol Med</i> . 49:2001-2009.	Fibroblast, embryonic lung	WI-38T	Buganim Y. et al. 2010. A Novel Translocation Breakpoint within the BPTF Gene Is Associated with a Pre-Malignant Phenotype. <i>PLoS ONE</i> . doi:10.1371/journal.pone.0009657.
Dendritic	Primary	Su X. et al. 2010. Coculturing Dendritic Cells with Zoledronate Acid Efficiently Enhance the Anti-Tumor Effects of Cytokine-Induced Killer Cells. <i>J Clin Immunol</i> . 30:766-774.	Fibroblast, fibrosarcoma	HT1080	Mongiat M. et al. 2010. The Extracellular Matrix Glycoprotein Elastin Microfibril Interface Located Protein 2: A Dual Role in the Tumor Microenvironment. <i>Neoplasia</i> . 12:294-304.
Kidney, embryonic	HEK-293T	Riera L. et al. 2010. Involvement of Grb2 Adaptor Protein in Nucleophosmin-Anaplastic Lymphoma Kinase (NPM-ALK)-mediated Signaling and Anaplastic Large Cell Lymphoma Growth. <i>J Biol Chem</i> . 285:26441-26450.	Fibroblast, lung epithelial	MRC-5	Chiu C-C. et al. 2010. p38 MAPK and NF- $\kappa$ B pathways are involved in naphtho[1,2-b]furan-4,5-dione induced anti-proliferation and apoptosis of human hepatoma cells. <i>Cancer Lett</i> . 295:92-99.
		Bozzo C. et al. 2010. A Mycobacterium ulcerans toxin, mycolactone, induces apoptosis in primary human keratinocytes and in HaCaT cells. <i>Microbes Infect</i> . 12:1258-1263	Fibroblast, uterine	Primary	Han YJ. et al. 2011. A transcribed pseudo-gene of MYLK promotes cell proliferation. <i>FASEB J</i> . doi: 10.1096/fj.10-177808.
		Jayasinghe SN. et al. 2010. Pressure driven spinning: A multifaceted approach for preparing nanoscaled functionalized fibers, scaffolds, and membranes with advanced materials. <i>Biomicrofluidics</i> . doi:10.1063/1.3328092.	Gastric carcinoma	AZ521 MKN74 NUGC3	Tsukamoto Y. et al. 2009. MicroRNA-375 is Downregulated in Gastric Carcinomas and Regulates Cell Survival by Targeting PDK1 and 14-3-3 $\zeta$ . <i>Cancer Res</i> . 70:2339-2349.
		Malinouski M. et al. 2011. Hydrogen Peroxide Probes Directed to Different Cellular Compartments. <i>PLoS ONE</i> . doi:10.1371/journal.pone.0014564.	Glioblastoma	U87 U373	Ulanovskaya OA., et al. 2010. A pairwise chemical genetic screen identifies new inhibitors of glucose transport. <i>Chem Biol</i> . 18:222-230.
	Kim M K-H. et al. 2011. Functional characterization of Wilms tumor-suppressor WTX and tumor-associated mutants. <i>Oncogene</i> . 30:832-842.		U251GM	Nair BG. et al. 2010. Aptamer conjugated magnetic nanoparticles as nanosurgeons. <i>Nanotechnology</i> . doi: 10.1088/0957-4484/21/45/455102.	
293-EBNA	Mongiat M. et al. 2010. The Extracellular Matrix Glycoprotein Elastin Microfibril Interface Located Protein 2: A Dual Role in the Tumor Microenvironment. <i>Neoplasia</i> . 12:294-304.		U251	Aka A. et al. 2010. Label-Free Determination of the Number of Biomolecules Attached to Cells by Measurement of the Cell's Electrophoretic Mobility in a Microchannel. <i>PLoS ONE</i> . doi:10.1371/journal.pone.0015641.	
Eosinophilic leukemia	EOL-1	Kahn J-E. et al. 2011. Comparative Proteomic Analysis of Blood Eosinophils Reveals Redox Signaling Modifications in Patients with FIP1L1-PDGFR $\alpha$ -Associated Chronic Eosinophilic Leukemia. <i>J Proteome Res</i> . 10:1468-1480.			
Erythrocyte	Primary	Crowley VM. et al. 2011. Heterochromatin formation in bistable chromatin domains controls the epigenetic repression of clonally variant Plasmodium falciparum genes linked to erythrocyte invasion. <i>Mol Microbiol</i> . 80:391-406.			
Esophageal epithelial	Primary	Ohashi S. et al. 2010. Epidermal Growth Factor Receptor and Mutant p53 Expand an Esophageal Cellular Subpopulation Capable of Epithelial-to-Mesenchymal Transition through ZEB Transcription Factors. <i>Cancer Res</i> . 15:4174-4184.			

## Human Cells (cont'd)

Cell type	Cell Line or Primary cells	Reference	Cell type	Cell Line or Primary cells	Reference
Hepatocellular carcinoma	HCCLM3	Xiao C-L. et al. 2011. Isomalto oligosaccharide sulfate inhibits tumor growth and metastasis of hepatocellular carcinoma in nude mice. <i>BMC Cancer</i> . doi: 10.1186/1471-2407-11-150.	Keratinocyte	HaCaT	Bozzo C. et al. 2010. A Mycobacterium ulcerans toxin, mycolactone, induces apoptosis in primary human keratinocytes and in HaCaT cells. <i>Microbes Infect.</i> 12:1258-1263.
	Hep3B	Chiu C-C. et al. 2010. p38 MAPK and NF- $\kappa$ B pathways are involved in naphtho[1,2-b] furan-4,5-dione induced anti-proliferation and apoptosis of human hepatoma cells. <i>Cancer Lett.</i> 295:92-99.  Galmiche A. et al. 2010. BAD, a Proapoptotic Member of the BCL2 Family, Is a Potential Therapeutic Target in Hepatocellular Carcinoma. <i>Mol. Cancer Res.</i> 8:1116-1125.			Hail N Jr. et al. 2010. The hydroxyl functional group of N-[4-hydroxyphenyl] retinamide mediates cellular uptake and cytotoxicity in premalignant and malignant human epithelial cells. <i>Free Rad Biol Med.</i> 49:2001-2009.
	HepG2	Chiu C-C. et al. 2010. p38 MAPK and NF- $\kappa$ B pathways are involved in naphtho[1,2-b] furan-4,5-dione induced anti-proliferation and apoptosis of human hepatoma cells. <i>Cancer Lett.</i> 295:92-99.  Galmiche A. et al. 2010. BAD, a Proapoptotic Member of the BCL2 Family, Is a Potential Therapeutic Target in Hepatocellular Carcinoma. <i>Mol. Cancer Res.</i> 8:1116-1125.  Erkekoğlu P and Baydar T. 2010. Effect of allyl isothiocyanate (AITC) in both nitrite- and nitrosamine-induced cell death, production of reactive oxygen species, and DNA damage by the single-cell gel electrophoresis (SCGE): does it have any protective effect on HepG2 cells? <i>Int J Toxicol.</i> 29:305-312.  Xiao C-L. et al. 2011. Isomalto oligosaccharide sulfate inhibits tumor growth and metastasis of hepatocellular carcinoma in nude mice. <i>BMC Cancer</i> . doi: 10.1186/1471-2407-11-150.	Lung, carcinoma	A549	García-Álvarez I. et al. 2011. Lipid and ganglioside alterations in tumor cells treated with antimetabolic oleyl glycoside. <i>Mol Biosyst.</i> 7:129-138.  Ulanovskaya OA, et al. 2010. A pairwise chemical genetic screen identifies new inhibitors of glucose transport. <i>Chem Bio.</i> 18:222-230.  Wan H-M. et al. 2010. Identification of anti-lung cancer extract from <i>Chlorella vulgaris</i> C-C by antioxidant property using supercritical carbon dioxide extraction. <i>Process Biochemistry.</i> 45:1865-1872.
	Huh-7	Galmiche A. et al. 2010. BAD, a Proapoptotic Member of the BCL2 Family, Is a Potential Therapeutic Target in Hepatocellular Carcinoma. <i>Mol. Cancer Res.</i> 8:1116-1125		H1299	Chen J Y-F. et al. 2010. Additive effects of C2-ceramide on paclitaxel-induced premature senescence of human lung cancer cells. <i>Life Sci.</i> 87:350-357.  Wan H-M. et al. 2010. Identification of anti-lung cancer extract from <i>Chlorella vulgaris</i> C-C by antioxidant property using supercritical carbon dioxide extraction. <i>Process Biochemistry.</i> 45:1865-1872.
	PRL			H1437	Wan H-M. et al. 2010. Identification of anti-lung cancer extract from <i>Chlorella vulgaris</i> C-C by antioxidant property using supercritical carbon dioxide extraction. <i>Process Biochemistry.</i> 45:1865-1872.
	Hep3B	Xiao C-L. et al. 2011. Isomalto oligosaccharide sulfate inhibits tumor growth and metastasis of hepatocellular carcinoma in nude mice. <i>BMC Cancer</i> . doi: 10.1186/1471-2407-11-150	Lymphoblast	MHU-2619 MHU-2371 MHU-2723 FSP-083 FSP-708	Slabicki M. et al. 2010. A Genome-Scale DNA Repair RNAi Screen Identifies SPG48 as a Novel Gene Associated with Hereditary Spastic Paraplegia. <i>PLoS ONE</i> . doi:10.1371/journal.pbio.1000408.
	Huh-7	Chiu C-C. et al. 2010. p38 MAPK and NF- $\kappa$ B pathways are involved in naphtho[1,2-b] furan-4,5-dione induced anti-proliferation and apoptosis of human hepatoma cells. <i>Cancer Lett.</i> 295:92-99.  Bozzo C. et al. 2010. A Mycobacterium ulcerans toxin, mycolactone, induces apoptosis in primary human keratinocytes and in HaCaT cells. <i>Microbes Infect.</i> 12:1258-1263.	Medulloblastoma	DAOY D283	Nalla AK. et al. 2010. Suppression of uPAR Retards Radiation-Induced Invasion and Migration Mediated by Integrin $\beta$ 1/FAK Signaling in Medulloblastoma. <i>PLoS ONE</i> . doi:10.1371/journal.pone.0013006.
			Stem cells, embryonic	Primary	Wilson KD. et al. 2010. Effects of Ionizing Radiation on Self-Renewal and Pluripotency of Human embryonic stem cells. <i>Cancer Res.</i> 70:5539-5548.

## Human Cells (cont'd)

Cell type	Cell Line or Primary cells	Reference	Cell type	Cell Line or Primary cells	Reference
Stem cells, induced pluripotent (iPSC)	Primary	Quattrocchi M. et al. 2011. Synthetic sulfonyl-hydrazone-1 positively regulates cardiomyogenic microRNA expression and cardiomyocyte differentiation of induced pluripotent stem cells. <i>J Cell Biochem.</i> 252:150-158.	Pancreatic adenocarcinoma	CAPAN-1	Merlin J. et al. 2011. Galectin-3 regulates MUC1 and EGFR cellular distribution and EGFR downstream pathways in pancreatic cancer cells. <i>Oncogene.</i> doi: 10.1038/onc.2010.631.
		Narsinh KH. et al. 2010. Generation of adult human induced pluripotent stem cells using nonviral minicircle DNA vectors. <i>Nat Protoc.</i> 6:78-88.		PC3	Ulanovskaya OA, et al. 2010. A pairwise chemical genetic screen identifies new inhibitors of glucose transport. <i>Chem Biol.</i> 18:222-230.
		Polo JM. et al. 2010. Cell type of origin influences the molecular and functional properties of mouse induced pluripotent stem cells. <i>Nat Biotechnol.</i> 28:848-855.		PC3	Roca H. et al. 2009. CCL2 Is a Negative Regulator of AMP-Activated Protein Kinase to Sustain mTOR Complex-1 Activation, Survivin Expression, and Cell Survival in Human Prostate Cancer PC3 cells. <i>Neoplasia.</i> 11:1309-1317.
Stem cells, mesenchymal	Primary	Guillaume-Gentil O. et al. 2011. Electrochemically switchable platform for the micro-patterning and release of heterotypic cell sheets. <i>Biomed Microdevices.</i> 13:221-230.	DU145	Chen HM. et al. 2011. A novel synthetic protoapigenone analogue, WYC02-9, induces DNA damage and apoptosis in DU145 prostate cancer cells through generation of reactive oxygen species. <i>Free Rad Bio Med.</i> 50:1151-1162.	
		Genetos DC. et al. 2010. Betacellulin inhibits osteogenic differentiation and stimulates proliferation through HIF-1 $\alpha$ . <i>Cell Tissue Res.</i> 340:81-89.	PC3		
Neuroblastoma	IMR-32	Brignole C. et al. 2010. Therapeutic targeting of TLR9 inhibits cell growth and induces apoptosis in neuroblastoma. <i>Cancer Res.</i> 70:9816-9826.	LNCaP	LNCaP	Hail N Jr. et al. 2010. The hydroxyl functional group of N-[4-hydroxyphenyl] retinamide mediates cellular uptake and cytotoxicity in premalignant and malignant human epithelial cells. <i>Free Rad Biol Med.</i> 49:2001-2009.
	SH-SY5Y		DU145		
	SK-NSH				
	SK-NAS				
	SK-NF-I				
	SK-NBE				
	GI-LI-N				
	GI-ME-N				
	CAN				
	LAN-1				
	LAN-5				
IMR-5					
	SK-NMC	Brignole C. et al. 2010. Therapeutic targeting of TLR9 inhibits cell growth and induces apoptosis in neuroblastoma. <i>Cancer Res.</i> 70:9816-9826.			
		Merlot AM. et al. 2010. Membrane Transport and Intracellular Sequestration of Novel Thiosemicarbazone Chelators for the Treatment of Cancer. <i>Mol Pharm.</i> 78:675-684.			
Osteosarcoma	U2OS	Geimanen J. et al. 2011. Development of a cellular assay system to study the genome replication of high- and low-risk mucosal and cutaneous human papillomaviruses. <i>J Virol.</i> 85:3315-3329.	T-cell Lymphoblast	CCRF-CEM	Mertlíková-Kaiserová H., et al. 2010. Role of caspases and CD95/Fas in the apoptotic effects of a nucleotide analog PMEG in CCRF-CEM cells. <i>Anticancer Res.</i> 30:2791-2798.
		Beacham DW. et al. 2010. Cell-based potassium ion channel screening using the FluxOR assay. <i>J Biomol Screen.</i> 15:441-446.	Trophoblast	HTR-8/Svneo	Cervellati F. et al. 2010. Betamethasone, progesterone and RU-486 (mifepristone) exert similar effects on connexin expression in trophoblast-derived HTR-8/Svneo cells. <i>Reprod Fertil Dev.</i> 23:319-328.
			Umbilical vein endothelial	Primary	Mongiat M. et al. 2010. The Extracellular Matrix Glycoprotein Elastin Microfibril Interface Located Protein 2: A Dual Role in the Tumor Microenvironment. <i>Neoplasia.</i> 12:294-304.
			Vaginal epithelial	V191	Goitre L. et al. 2011. KRIT1 Regulates the Homeostasis of Intracellular Reactive Oxygen Species. <i>PLoS ONE.</i> doi:10.1371/journal.pone.0011786.
					Hjelm BE. et al. 2010. Development and Characterization of a Three-Dimensional Organotypic Human Vaginal Epithelial Cell Model. <i>Biol Reprod.</i> 82:617-627.

## Mouse Cells

Cell type	Cell Line or Primary cells	Reference
B cells, lymphoma	CH12.LX	De Abrew KN. et al. 2011. Regulation of Bach2 by the aryl hydrocarbon receptor as a mechanism for suppression of B-cell differentiation by 2,3,7,8-tetra-chlorodibenzo-p-dioxin. <i>Toxicol Appl Pharmacol.</i> 252:150-158.

## Mouse Cells (cont'd)

Cell type	Cell Line or Primary cells	Reference
B cells, pro-B	Ba/F3	Wasag B. et al. 2011. The kinase inhibitor TKI258 is active against the novel CUX1-FGFR1 fusion detected in a patient with T-lymphoblastic leukemia/lymphoma and t(7;8)(q22;p11). <i>Haematologica</i> . DOI: 10.3324/haematol.2010.036558.
B cells, spleen	Primary	De Abrew KN. et al. 2010. An Integrated Genomic Analysis of Aryl Hydrocarbon Receptor-Mediated Inhibition of B-Cell Differentiation. <i>Toxicol. Sci.</i> 118:454-469.
Bronchoalveolar lavage	Primary	Johnson JR. et al. 2011. Chronic Respiratory Aeroallergen Exposure in Mice Induces Epithelial-Mesenchymal Transition in the Large Airways. <i>PLoS ONE</i> . doi: 10.1371/journal.pone.0016175.
Cardiomyocytes, embryonic	Primary	Lai D. et al. 2010. Neuregulin 1 Sustains the Gene Regulatory Network in Both Trabecular and Nontrabecular Myocardium. <i>Circ. Res.</i> 107:715-727.
Esophageal epithelial	Primary	Tetreaul MP. et al. 2010. Klf4 Overexpression Activates Epithelial Cytokines and Inflammation-Mediated Esophageal Squamous Cell Cancer in Mice. <i>Gastroenterology</i> . 139:2124-2134.
Fibroblasts, embryonic	Primary	Kleinberger. et al. 2010. Increased caspase activation and decreased TDP-43 solubility in progrenulin knockout cortical cultures. <i>J Neurochem</i> . 115:735-747.
Lung, dendritic	Primary	Park SJ. et al. 2010. Neutropenia enhances lung dendritic cell recruitment in response to Aspergillus via a cytokine-to-chemokine amplification loop. <i>J. Immunol.</i> 185:6190-6197.
Melanocyte	Primary	Mishra PJ. et al. 2010. Dissection of RAS downstream pathways in melanomagenesis: a role for Ral in transformation. <i>Oncogene</i> . 29:2449-2456.
Myoblasts	C2C12	Butter F. et al. 2010. A domesticated transposon mediates the effects of a single-nucleotide polymorphism responsible for enhanced muscle growth. <i>EMBO Rep.</i> 11:305-311.  Guillaume-Gentil O. et al. 2011. Electrochemically switchable platform for the micro-patterning and release of heterotypic cell sheets. <i>Biomed Microdevices</i> . 13:221-230.
Neutrophils	Primary	Jun HS. et al. 2010. Lack of glucose recycling between endoplasmic reticulum and cytoplasm underlies cellular dysfunction in glucose-6-phosphatase- $\beta$ -deficient neutrophils in a congenital neutropenia syndrome. <i>Blood</i> . 116:2783-2792.

## Mouse Cells (cont'd)

Cell type	Cell Line or Primary cells	Reference
Stem cells, embryonic	Primary	Butter F. et al. 2010. A domesticated transposon mediates the effects of a single-nucleotide polymorphism responsible for enhanced muscle growth. <i>EMBO Rep.</i> 11:305-311.  Cash TP. et al. 2011. Loss of the Birt-Hogg-Dubé tumor suppressor results in apoptotic resistance due to aberrant TGF $\beta$ -mediated transcription. <i>Oncogene</i> . doi: 10.1038/onc.2010.628.
Stem cells, mesenchymal	C3H10T1/2	Sakurai T. et al. 2011. Ionising irradiation-induced inhibition of differentiation of C3H10T1/2 cells to the osteoblastic lineage. <i>Int J Radiat Biol.</i> 87:447-452.
Renal proximal tubule	S2	Shiraya K. et al. 2010. A Novel Transporter of SLC22 Family Specifically Transports Prostaglandins and Co-localizes with 15-Hydroxyprostaglandin Dehydrogenase in Renal Proximal Tubules. <i>J Biol Chem</i> . 285:22141-22151.
Testis germ cell	Primary	Nordstrand LM. et al. 2010. Mice Lacking Alkbh1 Display Sex-Ratio Distortion and Unilateral Eye Defects. <i>PLoS ONE</i> . doi:10.1371/journal.pone.0013827

## Bovine Cells

Cell type	Cell Line or Primary cells	Reference
Articular Cartilage	Primary	Gay M H-P. et al. 2009. Application of mechanical strain to chondrocytes in 3D culture. Masters Thesis ETH Zurich. <a href="http://www.lbb.ethz.ch/Publications/Diploma_semester_works/Max_Gay_Masterthesis.pdf">http://www.lbb.ethz.ch/Publications/Diploma_semester_works/Max_Gay_Masterthesis.pdf</a>
Cartilage	Primary	Mhanna MF. et al. 2011. Layer-by-Layer Films Made from Extracellular Matrix Macromolecules on Silicone Substrates. <i>Biomacromolecules</i> . 12:609-616
Chondrocyte	Primary	Guillaume-Gentil O. et al. 2011. Electrochemically switchable platform for the micro-patterning and release of heterotypic cell sheets. <i>Biomed Microdevices</i> . 13:221-230
Pulmonary artery endothelial	Primary	Liu S Y-C. et al. 2009. The effect of extracellular cardiolipin in bovine pulmonary artery endothelial cells. University of Pittsburgh Masters Thesis. <a href="http://etd.library.pitt.edu/ETD/available/etd-07222010-135953/">http://etd.library.pitt.edu/ETD/available/etd-07222010-135953/</a>

## Canine Cells

Cell type	Cell Line or Primary cells	Reference
Kidney epithelial	MDCK	Kakiashvili. et al. 2010. The epidermal growth factor receptor mediates tumor necrosis factor- $\alpha$ -induced activation of the ERK/GEF-H1/RhoA pathway in tubular epithelium. <i>J Biol Chem</i> . 286:9268-9279.

## Ferret Cells

Cell type	Cell Line or Primary cells	Reference
Nasal wash	Primary	Ilyushina NA. et al. 2010. Does Pandemic A/H1N1 Virus Have the Potential To Become More Pathogenic?. <i>MBio</i> . doi: 10.1128/mBio.00249-10

## Guinea Pig Cells

Cell type	Cell Line or Primary cells	Reference
Lung	Primary	Hiraishi Y. et al. 2011. Bacillus Calmette-Guérin vaccination using a microneedle patch. <i>Vaccine</i> . 14:2626-2636.
Spleen	Primary	

## Hamster Cells

Cell type	Cell Line or Primary cells	Reference
Fibroblast	BHK-21	Karo-Astover L. et al. 2010. The infection of mammalian and insect cells with SFV bearing nsP1 palmitoylation mutations. <i>Virus Res</i> . 153:277-287.
Ovary	CHO	Yildiz I. et al. 2011. Supramolecular strategies to construct biocompatible and photoswitchable fluorescent assemblies. <i>J Am Chem Res</i> . 133:871-879.
	CHO-K1	Ulanovskaya OA. et al. 2010. A pairwise chemical genetic screen identifies new inhibitors of glucose transport. <i>Chem Bio</i> . 18:222-230.
		Maillouz RJ. et al. 2010. Genipin-Induced Inhibition of Uncoupling Protein-2 Sensitizes Drug-Resistant Cancer Cells to Cytotoxic Agents. <i>PLoS ONE</i> . doi:10.1371/journal.pone.0013289.

## Monkey Cells

Cell type	Cell Line or Primary cells	Reference
Fibroblast, Kidney	COS-7	Torrado M. et al. 2010. Exon-skipping brain natriuretic peptide variant is overexpressed in failing myocardium and attenuates brain natriuretic peptide production in vitro. <i>Exp. Bio. Med</i> . 235:941-951

## Porcine Cells

Cell type	Cell Line or Primary cells	Reference
Bronchoalveolar lavage	Primary	Meers CM. et al. 2011. A Porcine Model of Acute Lung Injury by Instillation of Gastric Fluid. <i>J Surg Res</i> . 166:e195-e204.

## Rat Cells

Cell type	Cell Line or Primary cells	Reference
Adrenal medulla	PC12	Maheshwari M. et al. 2010. Hydralazine Modifies AB Fibril Formation and Prevents Modification by Lipids in vitro. <i>Biochemistry</i> . 49:10371-10380.
Brain	Primary	Nair BG. et al. 2010. Aptamer conjugated magnetic nanoparticles as nanosurgeons. <i>Nanotechnology</i> . doi: 10.1088/0957-4484/21/45/455102.
Hepatoma	H4IIE	Thompson KJ. et al. 2011. Leptin inhibits hepatocellular carcinoma proliferation via p38-MAPK-dependent signalling. <i>HPB</i> . 13:225-233.
Olfactory mucosa	Primary	Dai C. et al. 2010. Survival of retinal ganglion cells in slice culture provides a rapid screen for olfactory ensheathing cell preparations. <i>Brain Res</i> . 354:40-46.
Pancreatic B-cell	INS-1 832/13	Altirriba J. et al. 2010. The role of transmembrane protein 27 (TMEM27) in islet physiology and its potential use as a beta cell mass biomarker. <i>Diabetologia</i> . 53:1406-1414.
Smooth Muscle	Primary	Gu Z. et al. 2010. Enhanced effects of low molecular weight heparin intercalated with layered double hydroxide nanoparticles on rat vascular smooth muscle cells. <i>Biomaterials</i> . 31:5455-5462.

## Chinook Salmon Cells

Cell type	Cell Line or Primary cells	Reference
embryonic	CHSE-214	Tunsjø HS. et al. 2009. The winter ulcer bacterium <i>Moritella viscosa</i> demonstrates adhesion and cytotoxicity in a fish cell model. <i>Microb Pathog</i> . 47:134-142.

## Fathead Minnow Cells

Cell type	Cell Line or Primary cells	Reference
Testis	FHMT-W1	Monaghan SR. et al. 2011. In vitro growth of microsporidia <i>Anncaliia algerae</i> in cell lines from warm water fish. <i>In Vitro Cell Dev Biol Anim</i> . 47:104-113.

## Goldfish Cells

Cell type	Cell Line or Primary cells	Reference
Brain	GFB3C-W1	Monaghan SR. et al. 2011. In vitro growth of microsporidia <i>Anncaliia algerae</i> in cell lines from warm water fish. <i>In Vitro Cell Dev Biol Anim</i> . 47:104-113.
Skin	SGFSk-S1	

## Rainbow Trout Cells

Cell type	Cell Line or Primary cells	Reference
Enterocyte	Primary	Kwong RWM. et al. 2010. Molecular evidence and physiological characterization of iron absorption in isolated enterocytes of rainbow trout ( <i>Oncorhynchus mykiss</i> ): Implications for dietary cadmium and lead absorption. <i>Aquat Toxicol.</i> 99:343-350.

## Zebrafish Cells

Cell type	Cell Line or Primary cells	Reference
Blastula	ZEB2J	Monaghan SR. et al. 2011. In vitro growth of microsporidia <i>Anncaliia algerae</i> in cell lines from warm water fish. <i>In Vitro Cell Dev Biol Anim.</i> 47:104-113.

## Pillbug (*Armadillidium vulgare*) Cells

Cell type	Cell Line or Primary cells	Reference
Hemocytes	Primary	Sicard M. et al. 2010. Variations of immune parameters in terrestrial isopods: a matter of gender aging and <i>Wolbachia</i> . <i>Naturwissenschaften.</i> 97:819-826.  Chevalier F. et al. 2011. The Immune Cellular Effectors of Terrestrial Isopod <i>Armadillidium vulgare</i> : Meeting with Their Invaders. <i>PLoS ONE.</i> doi:10.1371/journal.pone.0018531.

## *Saccharomyces cerevisiae* Cells

Cell type	Cell Line or Primary cells	Reference
Yeast	H2997 strain	Farley AR. et al. 2011. Assessing the Components of the eIF3 Complex and their Phosphorylation Status. <i>J Proteome Res.</i> 10:1481-1494.

## Slime Mold (*Dictyostelium discoideum*) Cells

Cell type	Cell Line or Primary cells	Reference
Amoebae	Primary	Fumanelli L. et al. 2011. Mathematical modeling of bacterial virulence and host-pathogen interactions in the <i>Dictyostelium/Pseudomonas</i> system. <i>J Theor Biol.</i> 270:19-24.

## Wax moth (*Galleria mellonella*) Cells

Cell type	Cell Line or Primary cells	Reference
Larvae	Primary	Joyce SA. et al. 2010. Molecular pathogenesis of <i>Listeria monocytogenes</i> in the alternative model host. <i>Microbiology.</i> 156:3456-3468.

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### Headquarters

5791 Van Allen Way | Carlsbad, CA 92008 USA

Phone +1.760.603.7200 | Toll Free in the USA 800.955.6288

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