

Other Species and Cell Types Compatible with PromoCell Media

PromoCell®



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Myocyte Growth Medium (+ modifications)

Cell Type Used	Reference
Primary rat ventricular myocytes	Caldwell et al.; Circ Res. 2014 Dec 5;115(12): 986-96
Mouse neonatal cardiac myocytes	Falik-Zaccai et al.; EMBO Mol Med. 2017 Mar;9(3):319-336

Endothelial Cell Growth Medium (+ modifications)

Cell Type Used	Reference
Primary human iliac artery endothelial cells	Riessen et al.; Arterioscler Thromb Vasc Biol. 2001 Jan;21(1):47-54
Primary human cavernosal endothelial cells	Pilatz et al.; Eur Urol. 2005 May;47(5):710-8; 718-9; Pilatz et al.; BJU Int. 2005 Jun;95(9):1351-7
Primary human corneal endothelial cells	Schulz et al.; Differentiation. 2013 Jun 27;85(4-5):161-172
Human CD31+ CD45- EPCs (from umbilical cord)	Abaci et al.; Am J Physiol Cell Physiol. 2010 Jun; 298(6):C1527-37
Early vascular cells, differentiated from human iPS cells	Shen et al.; Biomaterials. 2016 Jun 4;102:107-119
BC1 hiPSC, C12 hiPSC (differentiation into early vascular cells)	Smith et al.; Cell Rep. 2018 Jul 24;24(4):895-908
Primary human retinal microvascular endothelial cells	Troullinaki et al.; J Cell Mol Med. 2019 Apr;23(4):2362-2371; Korovina et al.; J Innate Immun 2020;12(3):248-256
Primary mouse CD31 positive cells (BALB/c mice)	Gehrmann et al.; PLoS One. 2012;7(7):e41341
Primary mouse aortic endothelial cells	Zernecke et al.; Sci Signal. 2009 Dec 8;2(100):ra81
Primary mouse endothelial cells from mesenteric arteries	Matthaeus et al.; PLoS One. 2019 Oct 10;14(10):e0223620
Primary rat pulmonary artery endothelial cells	Kähler et al.; Respir Res. 2007 Jul 9;8:50
Primary rat sinusoidal endothelial cells (liver)	Kordes et al.; Cell Physiol Biochem. 2013;31:290-304
Primary rat dermal papilla and sheath cells (cells of neural crest origin located in the dermal papilla)	Bell et al.; Stem Cells Dev. 2012 Nov 1;21(16):3019-30
High endothelial venule (HEV) cells from rat lymph nodes	Müller et al.; J Immunol. 2013 Apr 15;190(8): 4360-70

Endothelial Cell Growth Medium (+ modifications)

Cell Type Used	Reference
Primary bovine umbilical vein endothelial cells (BUVEC)	Ruiz et al.; Vet Parasitol. 2010 Oct 11;173(1-2):2-10; Silva et al.; Parasitol Res. 2015 Jan;114(1):113-24; Munoz-Caro et al.; Parasitol Res. 2014 Nov;113(11):4189-97; Silva et al.; Sci Rep. 2019 Apr 30;9(1):6650; Velásquez et al.; Sci Rep. 2019 Aug 29;9(1):12496
Primary endothelial cells from bovine retinal capillaries	Carbajo-Lozoya et al.; Cell Signal. 2012 Jun;24(6):1261-9
Primary dog vascular endothelial cells (from Beagles)	Sagban et al.; Advanced Engineering Materials 2011 Dec;13(12):B518-B528
Primary caprine umbilical vein endothelial cells	Ruiz et al.; Vet Parasitol. 2010 Oct 11;173(1-2):2-10; Perez et al.; Parasitol Int. 2015 Oct;64(5):471-7
Primary sheep external jugular vein endothelial cells	Almelkar et al.; OA Tissue Engineering. 2013 Mar 1; 1(1):1
HMVEC (permanent cell line derived from human microvascular endothelial cells)	Philipp et al.; Int J Mol Med. 2005 Feb;15(2):299-303
HUVEC-hTERT (human immortalized endothelial cell line)	Baumer et al.; Cell Mol Life Sci. 2010 Jul;67(14): 2451-65
HUVEC-CS (permanent cell line; ATCC CRL-2873)	Jhanji et al.; Br J Ophthalmol. 2011 Sep;95(9):1309-15
EA.hy926 (human umbilical vein endothelial cell line; ATCC CRL-2922)	Politz et al.; Biochem J. 2002 Feb 15;362(Pt 1):155-64
HBMEC (immortalized human bone marrow endothelial cell line)	Willhauck-Fleckenstein et al.; Angiogenesis. 2010 Mar; 13(1):25-42; Devaraparu et al.; Int J Cancer. 2016 Jun 15;138(12):2963-73
CDC/EU.HMEC-1 (human microvascular endothelial cell line)	Politz et al.; Biochem J. 2002 Feb 15;362(Pt 1):155-64
PMVEC (established human pulmonary microvascular endothelial cell line)	Austin et al.; Biol Sex Differ. 2012 Feb 20;3(1):6
HUE cells (spontaneously immortalized cell line); HUVEC clone (overexpresses VEGF-R2)	Jogireddy et al.; ChemMedChem. 2010 May 3;5(5): 670-3
B.End.3 cells (mouse brain endothelial cells, ATCC CRL-2299)	Al-Hilal et al.; J Clin Invest. 2016 Apr 1;126(4):1251-66
hCMEC/D3 cell line (immortalized human brain endothelial cells, model for blood-brain barrier function)	Smith et al.; Cell Rep. 2018 Jul 24;24(4):895-908

Endothelial Cell Growth Medium 2 (+ modifications)

Cell Type Used	Reference
Primary human endothelial progenitor cells (EPCs) from PBMC	Zoll et al.; Cardiovasc Res. 2008 Feb 1;77(3):471-80; Hamed et al.; Cardiovasc Diabetol. 2009 Oct 30;8:56
Primary human sweat gland-derived stem cells (SGSC)	Danner et al.; J Invest Dermatol. 2012 Jun;132(6):1707-16
Primary human liver sinusoidal endothelial cells (LSEC)	Werner et al.; PloS One. 2015 Sep 25;10(9):e0138655
Human brain microvascular endothelial cells	Niego et al.; PloS One. 2017 May 16;12(5):e0177332
Human prostate derived CD31+ blood vessel endothelial cells	McGovern et al.; Cancers (Basel). 2018 Nov 13;10(11)
Primary pig endothelial progenitor cells from peripheral blood and/or from bone marrow	Luo et al.; Crit Care. 2009;13(4):R118; Luo et al.; Mediators Inflamm. 2019 Apr 17;2019:8297391; Mathur et al.; Lab Chip. 2019 Jul 23;19(15):2500-2511
Primary mouse lung endothelial cells	Rama et al.; Nat Med. 2015 May;21(5):483-91
Primary mouse microvascular endothelial cells	Alvarez-Aznar et al.; Transgenic Res. 2020 Feb;29(1):53-68
Primary murine cardiac stromal cells (cM- SCs), differentiated into ECs	Martini et al.; Aging Cell. 2019 Oct;18(5):e13015
Multipotent adult germline stem cells (maGSCs) from mouse testis	Cheng et al.; J Vasc Res. 2012 Mar 14;49(3) :
Tert-immortalized human microvascular endothelial (TIME) cells	Degaldo et al.; PloS Pathog. 2012 Aug;8(8):e1002866
Human transformed astrocytes (from fetal brain)	Niego et al.; PloS One. 2017 May 16;12(5):e0177332
Immortalized Fabry endothelial cell line-1 (IMFE-1)	Marchesan et al.; J Inherit Metab Dis. 2012 Nov;35(6):1107-17
HPMEC-ST1.6R (Pulmonary microvascular endothelial cell line)	Thom et al.; Cell Physiol Biochem 2013;32: 355-366
SV40-immortalized rat portal vein endothelial cells (control and cirrhotic rats)	Ribera et al.; PLoS One. 2019 Jun 24;14(6):e0218716

Endothelial Cell Growth Medium MV (+ modifications)

Cell Type Used	Reference
Primary human internal thoracic (= mammary) artery cells	Zengin et al.; Development. 2006 Apr;133(8):1543-51
Primary human intestinal (jejunum mucosa) microvascular endothelial cells	Norrmen et al.; Blood. 2010 Jan 28;115(4):906-9
Primary human brain microvascular endothelial cells	Walsh et al.; J Cell Physiol. 2011 Nov;226(11):3053-63
Primary capillary endothelial cells from human adipose tissue	Sengenès et al.; Stem Cells. 2007 Sep;25(9):
Primary human microvascular endothelial cells from pancreatic tumor tissue	Issa et al.; J Mol Med. 2009 Jan;87(1):99-112
Human cerebral cavernous malformations-derived endothelial cells	Zhu et al.; Neurosurgery. 2011 Sep;69(3):722-32
Primary human prostate microvascular endothelial cells (from benign prostatic hyperplasia)	Aweimer et al.; Prostate Cancer Prostatic Dis. 2012 Jun;15(2):157-64
Primary human retinal capillary endothelial cells	Farjo et al.; Mol Cell Biol. 2012 Dec;32(24):5103-15
Primary human choroidal endothelial cells	Palanisamy et al.; BMC Res Notes. 2019 May 30;12(1):307
Primary human arterial feto-placental endothelial cells (from chorionic arteries)	Leopold et al.; Histochem Cell Biol. 2019 Nov;152(5):377-390
Primary rat aorta endothelial cells	Lips et al.; J Histochem Cytochem. 2003 Dec;51(12):1645-54
Primary rat lung microvascular endothelial cells	Lips et al.; J Histochem Cytochem. 2003 Dec;51(12):1645-54
Primary rat forebrain microvascular endothelial cells	Lips et al.; J Histochem Cytochem. 2003 Dec;51(12):1645-54
Primary mouse aortic endothelial cells	Darrow et al.; ISRN Endocrinol. 2013 Jun 11; 2013: 165397
Primary mouse endothelial cells from skeletal muscle vasculature (mixture of arterial, venous, and lymphatic ECs)	Darrow et al.; ISRN Endocrinol. 2013 Jun 11; 2013:165397

Endothelial Cell Growth Medium MV (+ modifications)

Cell Type Used	Reference
Primary mouse pulmonary endothelial cells (CD146 ⁺)	Blythe et al.; J Biol Chem. 2019 Nov 15;294(46):17395-17408
Primary bovine retinal microvascular endothelial cells	Baldysiak-Figiel et al.; J Endocrinol. 2004 Mar;180(3):417-24
Primary bovine aortic endothelial cells (BAEC)	Billottet et al.; Eur J Cell Biol. 2008 Sep;87(8-9):543-54; Rottiers et al.; J Cell Sci. 2009 Dec 1;122(Pt 23):4311-8; Daubon et al.; Mol Cell Biol. 2011 Nov;31(22):4430-41
Pancreatic islet endothelial cells from sheep fetuses	Rozance et al.; Diabetes. 2015 Feb;64(2):555-64
Organ culture of murine arterial vessel segments (aorta, carotid)	Rottiers et al.; J Cell Sci. 2009 Dec 1;122(Pt 23):4311-8
Microvascular fragments isolated from the epididymal fat pads of C57BL/6 mice	Graesser et al.; Eur Cell Mater. 2016 Jul 8;32:74-86
HMEC-1 cell line (human dermal microvascular endothelial cells transfected with SV40-T)	Robinet et al.; J Cell Sci. 2005 Jan 15;118(Pt 2):343-56; Unger et al.; Microvasc Res. 2002 Nov;64(3):384-97; Brauer et al.; BMC Biochem. 2011 Jul 25;12(1):38
ISO-HAS-1 cell line (human hemangiosarcoma cells)	Unger et al.; Microvasc Res. 2002 Nov;64(3):384-97
ISO-HAS-B cell line (human skin angiosarcoma cells)	Riddell et al.; Nat Commun. 2018 Dec 17;9(1):5357
AS-M cell line (human endothelial cell line)	Ern et al.; The Open Biomedical Engineering Journal, 2010, 4, 190-198; Riddell et al.; Nat Commun. 2018 Dec 17;9(1):5357
HPEC-A2 (Immortalized human placental venous endothelial cells)	Wallbrecht et al.; Exp Dermatol. 2011 Dec;20(12): 980-5; Woth et al.; Exp Dermatol. 2013 Nov; 22(11):714-8; Aengenheister et al.; J Nanobiotechnology. 2018 Oct 11;16(1):79
HBMEC-60 cell line (derived from retrovirally immortalized human bone marrow endothelial cells)	Moehler et al.; J Cell Physiol. 2008 Apr;215(1): 27-36
hCAEC-hTERT (human coronary artery endothelial cells, telomerase immortalized)	Baumer et al.; Exp Biol Med (Maywood). 2011 Jun 1;236(6):692-700
iBREC (bovine retina microvascular endothelial cell line, telomerase-immortalized)	Deissler et al.; Invest Ophthalmol Vis Sci. 2010 Jan;51(1):535-42; Deissler et al.; Exp Eye Res. 2013 Jul 25;115C:162-171; Deissler et al.; Graefes Arch Clin Exp Ophthalmol. 2019 Jan;257(1):83-94
HPMEC-ST1 (immortalized human pulmonary microvascular endothelial cell line)	Kacem et al.; Biomed Mater Res A. 2014 Sep;102(9):2942-51; Scoutaris et al.; Mol Pharm. 2016 Jan 4; 13(1):125-3; Blanchemain et al.; Biomed Mater. 2011 Dec;6(6):065003

Endothelial Cell Growth Medium MV2 (+ modifications)

Cell Type Used	Reference
Primary human brain microvascular endothelial cells	Grau et al.; J Neurooncol. 2011 Aug;104(1):103-12
Primary human glioblastoma-derived endothelial cells	Grau et al.; J Neurooncol. 2011 Aug;104(1):103-12; Lohr et al.; Clin Cancer Res. 2011 Jul 1;17(13): 4296-4308; Borovski et al.; Oncogene. 2013 Mar 21;32(12):1539-48
Primary human omental microvascular endothelial cells	Winiarski et al.; Microcirculation. 2011 Nov; 18(8):635-45
Primary human endothelial progenitor cells (EPC, ECFC, EOC) from peripheral blood	Hristov et al.; Circulation. 2010;121(2): 315-24; Baumer et al.; J Thromb Haemost. 2012 Jun;10(6):1152-64; Grieb et al.; Wound Repair Regen. 2012 Sep;20(5):707-14; Su et al.; Stem Cells. 2015 Jul;33(7):2243-55; Langford-Smith et al.; Sci Rep. 2019 Feb 19;9(1):2309; Lu et al.; J Cardiovasc Transl Res. 2019 Aug;12 (4):366-377
Primary human bone marrow-derived endothelial progenitor cells (BM-derived EPCs)	Li et al.; CNS Neurosci Ther. 2013 May;19(5):352-7; Lee et al.; J Funct Foods 2019 Jan; 52:537-544
Primary Human Smooth Muscle Progenitor Cells (SMPC) from PBMC	Wang et al.; Arterioscler Thromb Vasc Biol. 2012 Aug;32(8):1875-83
Primary human lung lymphatic microvascular endothelial cells	Deleuze et al.; PloS One. 2012;7(7):e40484
Primary human lymphatic endothelial cells isolated from lymph node	Sun et al.; Invest Ophthalmol Vis Sci. 2019 Mar 1;60(4):1050-1062
Human lymphatic endothelial cells from lymphatic malformation tissue	Blesinger et al.; PloS One. 2018 Jul 9;13(7):e0200343
Tumor microvascular endothelial cells isolated from patient material (tmVEC)	Fessler et al.; Mol Cancer. 2015 Aug 19;14(1):157
hESC (human embryonic stem cell)-derived perivascular progenitors	Greenwood-Godwin et al.; Sci Rep. 2016 Apr 25;6:24403
Primary canine bone marrow-derived EPC (from Beagles)	Wen et al.; The Open Tissue Engineering and Regenerative Medicine Journal, 2012, 5, 9-16
Primary mouse lung microvascular endothelial cells	Imrie et al.; Diabetes. 2012 Sep;61(9):2359-68; Tual-Chalot et al.; PloS One. 2014 Jun 4;9(6):e98646; Li et al.; Nature. 2014 Nov 13;515(7526):279-82; Li et al.; Nat Commun. 2016 Mar 23;7:11017
Primary mouse dermal microvascular endothelial cells from mouse tail skin	Talavera-Adame et al.; Microvasc Res. 2011 Sep;82(2): 97-104
Primary mouse brain microvascular endothelial cells	Delgado et al.; Neuron. 2014 Aug 6;83(3):572-85

Endothelial Cell Growth Medium MV2 (+ modifications)

Cell Type Used	Reference
Ex vivo culture of embryonic mouse dermis (dorsal thoracic skin of freshly isolated Wnt5a-/- mouse embryos)	Lutze et al.; Sci Rep. 2019 Mar 18;9(1):4739
Primary rat dermal microvascular endothelial cells (abdominal skin)	Dall'Olmo et al.; BioMed Research International. 2014;2014:685426
Primary neuromicrovascular endothelial cells from rat	Drago et al.; J Alzheimers Dis. 2007 Mar; 11(1):33-44
Primary rat cerebral microvascular endothelial cells	Del Gaudio et al.; J Biomed Mater Res B Appl Biomater. 2012 Oct;100B(7):1883-98
Primary porcine EPCs (from peripheral blood samples of Taiwanese Lanyu miniature pigs)	Su et al.; Ultrasound in Med. & Biol. 2013;39(1): 134-145
Human dermal microvascular endothelial cells, telomerase-immortalized (TIME cells)	Burns et al.; Cancer Res. 2005 Apr 15;65(8):3126-35; Korherr et al.; Proc Natl Acad Sci U S A. 2006;103(11):4240-5; Saetre et al.; BMC Psychiatry. 2007 Sep 6;7:46
Immortalized human lymphatic endothelial cell lines (hTERT-hDLEC, iLEC)	Pfaff et al.; J Pathol. 2011 Dec;225(4):512-24; Pang et al.; Oncogene. 2016 Feb 11;35(6):748-60
HMEC-1, human cell line	Deleuze et al.; PloS One. 2012;7(7):e40484
Transformed human cerebral microvascular endothelial cell line (hCMEC/D3)	Rai et al.; J Exp Clin Cancer Res. 2015 Sep 25;34(1):105
Mouse pancreatic islet endothelial cell line (MS1)	Anderberg et al.; J Exp Med. 2013 Mar 11;210(3): 563-79; Pang et al.; Oncogene. 2016 Feb 11; 35(6):748-60
Mouse endothelial cell line from cerebral cortex (bEND3.1)	Anderberg et al.; J Exp Med. 2013 Mar 11;210(3): 563-79

Airway Epithelial Cell Growth Medium (+ modifications)

Cell Type Used	Reference
Primary airway epithelial cells from pig (nasal, tracheal, bronchial)	Lam et al.; J Virol Methods. 2011 Dec;178(1-2):117-23; Peitsch et al.; J Virol. 2014 Jan;88(1):282-91; Schumacher et al.; Acta Biomater. 2014 Feb;10(2):996-1004; Eifler et al.; J Mater Sci Mater Med. 2016 Feb;27(2):25
Primary equine bronchial epithelial cells	Abraham et al.; BMC Vet Res. 2011 Jun 7;7:26
Primary equine tracheal epithelial cells	Shibeshi et al.; In Vitro Cell Dev Biol Anim. 2008 Jul Aug;44(7):179-84
Primary rat tracheobronchial epithelial cells	Neff et al.; Am J Physiol Lung Cell Mol Physiol. 2006 Jan;290(1):L86-96
Primary tracheal epithelial cells from the cotton rat	Ehlen et al.; Virol J. 2016 May 4;13(1):74
Primary bovine bronchial epithelial cells	Goris et al.; J Virol. 2009 Feb;83(4):1962-8
Primary ovine airway epithelial cells	Thiebes et al.; BioResearch Open Access. 2015 Aug; 4(1): 278-287; O'Boyle et al.; PloS One. 2017 Jul 26;12(7):e0181583
Primary mouse airway epithelial cells	Paget et al.; J Biol Chem. 2012 Mar 16;287(12):8816-29; Tan et al.; Front Cell Dev Biol 2020 Aug 28;8:579157
Primary bat airway epithelial cells; Immortalized bat airway epithelial cells	Eckerle et al.; PloS One. 2014 Jan 13;9(1):e84679
Tissue slices from lung cancer	Sonnenberg et al.; BMC Cancer. 2008 Dec 11;8:364
(Mini-)organ cultures from human nasal/oropharyngeal mucosa	Baumeister et al.; Anticancer Res. 2009;29(11): 4571-4; Hackenberg et al.; Environ Mol Mutagen. 2011;52(7): 582-9; Reiter et al.; Anticancer Res. 2012;32(8):3185-9
Mucosa cultures from human tissue obtained during tonsillectomy and uvulo-palatopharyngoplasty	Baumeister et al.; Oxid Med Cell Longev. 2012;2012:902716

Airway Epithelial Cell Growth Medium (+ modifications)

Cell Type Used	Reference
HET-1A (immortalized human esophageal epithelial cell line, ATCC, CRL-2692)	Zhao et al.; PloS One. 2011;6(6):e21419; Sok et al.; Br J Cancer. 2013 Dec 10;109(12):3049-56
CL-1548 (hTERT immortalized normal human bronchial epithelial cells)	Scheffler et al.; Int J Environ Res Public Health. 2015 Oct 5;12(10):12466-74
Xenotransplanted primary tumors and lymph node metastasis - harvested from NMRI-nu mice	Ihler et al.; Biomed Res Int. 2018 Mar 6;2018:7929104
IB3-1 (immortalized cell line from bronchial epithelial cells isolated from a patient with cystic fibrosis)	Chanson et al.; Am J Pathol. 2001 May;158(5):1775-84; Huang et al.; J Biol Chem. 2003 Mar 7;278(10):8326-32; Jungas et al.; J Biol Chem. 2002 Aug 2;277(31):27912-8
C38 cell line (derived from IB3-1 but expresses plasmid-encoded functional CFTR; ATCC, CRL-2779)	Huang et al.; J Biol Chem. 2003 Mar 7;278(10):8326-32
16-HBE (human bronchial epithelial cell line)	Jia et al.; EMBO Mol Med. 2018 May;10(5)
BEAS-2B (human bronchial epithelial cell line; ATCC CRL-9609)	Ginzkey et al.; Toxicol Lett. 2012 Jan 5;208(1): 23-9; Weber et al.; Cell Physiol Biochem. 2014 May 9;33(5):1452-1466; She et al.; Oncol Rep. 2016 Nov;36(5):2673-2680; Jia et al.; EMBO Mol Med. 2018 May;10(5)
Immortalized laryngeal epithelial cell line from posterior commissure	Lee et al.; Laryngoscope. 2015 Feb;125(2):E73-7

Mammary Epithelial Cell Growth Medium (+ modifications)

Cell Type Used	Reference
Primary human mammary epithelial cells from tumor tissue	Hass and Bertram; J Exp Clin Cancer Res. 2009 Sep 14;28:127
Human breast tumor tissue slices	Sonnenberg et al.; BMC Cancer. 2008 Dec 11; 8:364; van den Kuip et al.; BMC Cancer. 2006 Apr 7;6:86
Primary rat mammary epithelial cells	Fedrowitz et al.; J Exp Clin Cancer Res. 2011 Oct 25;30(1):102; Smits et al.; PloS Genet. 2013 Jun;9(6):e1003549
Primary bovine mammary epithelial cells from healthy lactating Holstein-Friesian cows	Halwachs et al.; Toxicol Sci. 2013 Feb;131(2):491-501
EpH4 & EpRas (mouse mammary epithelial cell lines) in 3D culture	Janda et al.; J Cell Biol. 2002 Jan 21;156(2):299-313
hTERT HME1 (human immortalized mammary epithelial cell line; ATCC CRL-4010)	Kaan et al.; J Med Chem. 2010 Aug 12;53(15):5676-83
MCF 10A (human mammary epithelial cell line; ATCC CRL-10317)	Maschler et al.; EMBO Mol Med. 2010 Oct;2(10):401-14; Nanashima et al.; Mol Med Rep. 2017 Nov;16(5):6134-6141; Dogan et al.; J Cell Biochem. 2018 Oct 28. Doi: 10.1002; Schmid et al.; BMC Cancer. 2018 Dec 19;18(1):1273; Melzer et al.; Int J MolSci. 2019 Feb 18;20(4)

Renal Epithelial Cell Growth Media (+ modifications)

Cell Type Used	Reference
Primary mouse tubular kidney epithelial cells	Wang et al.; Mol Cell Biol. 2013 May;33(10):1916-24; Susnik et al.; Kidney Int. 2014 Jun;85(6):1357-68; Ding et al.; JCI Insight. 2018 Mar 22; 3(6): e94818; Sureshbabu et al.; JCI Insight. 2018 Jun 7; 3(11): e98411
Primary renal epithelial cells from the cotton rat	Ehlen et al.; Virol J. 2016 May 4;13(1):74
Cell lines established from human clear cell renal cell carcinomas	Grepin et al.; Cancer Res. 2014 Feb 1;74(3):873-83
Established rat medullary thick ascending limb cell line (renal cells)	Paliege et al.; Am J Physiol Renal Physiol. 2012 Apr;302(7):F865-74; Dathe et al.; J Biol Chem. 2014 Apr 4;289(14):9983-97

Fibroblast Growth Media (+ modifications)

Cell Type Used	Reference
Primary human myofibroblast-like cells, differentiated from CD133 ⁺ cord blood cells	Sodian et al.; Ann Thorac Surg. 2010 Mar; 89(3):819-28
Primary porcine left ventricular (LV) myocardial fibroblasts	Mukherjee et al.; Circulation. 2010 Jul 6;122(1):20-32; Eckhouse et al.; J Thorac Cardiovasc Surg. 2013 Jan;145(1):267-277.e4
Primary rhesus monkey fibroblasts	Scholl et al.; Parasit Vectors. 2016 Jul 8;9(1):394
Primary sheep cardiac fibroblasts (from left ventricular myocardium)	Dixon et al.; Circulation. 2011 Sep 13;124(11 Suppl):S35-45
Primary feline corneal fibroblasts (domestic short hair cat)	Huxlin et al.; PloS One. 2013 Aug 5;8(8):e70785; Jeon et al.; Sci Rep. 2018 Aug 28;8(1):12945
Primary rat dermal fibroblasts	Oki et al.; Monoclon Antib Immunodiagn Immunother. 2015 Dec;34(6):396-403
Primary murine fibroblasts (C57BL/6 mice) [Fibroblast Growth Medium 2]	Akerman et al.; J Am Heart Assoc. 2019 Jan 8;8(1):e010332
Hs27 cells (ATCC; CRL1634; human foreskin fibroblast cell line) [Fibroblast Growth Medium]	Fearnley et al.; Elife. 2019 Mar 29;8:e44597

Keratinocyte Growth Medium 2 (+ modifications)

Cell Type Used	Reference
Biopsies taken from acneic inflammatory skin lesions	Zuliani et al.; Exp Dermatol. 2011 Oct;20(10): 850-3
Primary human corneal epithelial cells (corneal keratinocytes)	Moers et al.; Exp Cell Res. 2013 Jul 15;319(12):1889-901; Schulz et al.; Differentiation. 2013 Jun 27;85(4-5):161-172
Primary human keratinocytes from epidermal stem cells of the hair follicle of anagen head hairs	Zeitvogel et al.; J Biol Chem. 2012 Mar 23;287(13):9923-30
Primary human keratinocytes derived from the outer root sheath of the hair follicle	Wang et al.; Exp Dermatol. 2011 Aug;20(8):637-41
Primary human oral epithelial cells from gingival tissue	Kraus et al.; PloS One. 2012;7(2):e30716; Zingler et al.; Oral Surg Oral Med Oral Pathol Oral Radiol. 2013 Aug;116(2):159-68; Dommisch et al.; Clin Oral Investig. 2015 Mar;19(2):209-20

Keratinocyte Growth Medium 2 (+ modifications)

Cell Type Used	Reference
Human keratinocytes from tongue noncancerous disease patients	Huang et al.; J Cell Mol Med. 2018;22 (8):3899-3910
Primary mouse keratinocytes	Hanson et al.; J Clin Invest. 2010 Aug 2;120(8): 2910-9; Reiss et al.; Exp Dermatol. 2011 Nov;20 (11):905-10; Gaffal et al.; Allergy. 2013 Aug; 68(8):994-1000
Primary oral mucosal epithelial cells from rabbit	Duan et al.; Regen Med. 2019 Jan;14(1):49-62
Immortalized human gingival keratinocytes	Gübeli et al.; Acta Biomater. 2013 Sep;9(9):8272-8; Schulz et al.; Dent Mater. 2015 Nov;31(11):1321-34; Jedrusik et al.; Adv Healthc Mater. 2018 May;7(10):e1700895
Immortalized Human oral keratinocyte cell line OKF6/hTERT-1	Hoppe et al.; J Cell Physiol. 2019 Dec;234(12):21903-14
Immortalized normal ureter cells (TERT-B)	Sarkar et al.; Open Biol. 2017 Aug;7(8):170080
Immortalized human corneal keratinocyte cell line	Eberwein et al.; Eur J Cell Biol. 2011 Dec;90(12): 1029-40; Schulz et al.; Differentiation. 2013 Jun 27;85(4-5):161-172; Heimer et al.; PloS One. 2013 Sep 18;8(9):e73111; Masterton and Ahearne; Biores Open Access. 2019 Jun 5;8(1):74-83
HaCaT (spontaneously transformed keratinocytes from histologically normal skin)	Sprenger et al.; Mol Cell Proteomics. 2013 Sep;12(9):2509-21; Tukaj et al.; PloS One. 2013 Jul 30;8(7):e70496
RDEB-TA4 cell line (dystrophic epidermolysis bullosa keratinocytes)	Zhou et al.; J Control Release. 2016 Dec 28;244(Pt B):336-346
Ki-PeCa-L1 and Ki-PeCa-P1 cell lines, established from penile squamous cell carcinoma and its lymph node metastasis	Naumann et al.; J Urol. 2012 Jun;187(6):2236-42
Human urothelial carcinoma cell lines (LUCC6, LUCC8)	De Faveri et al.; Br J Cancer. 2013 Apr 2;108(6):1368-77

Melanocyte Growth Medium (+ modifications)

Cell Type Used	Reference
Primary mouse melanocytes	Abbas et al.; Chem Res Toxicol. 2017 Feb 20;30(2):625-634
Primary human adult Schwann cells	Haastert et al.; Nat Protoc. 2007;2(1):99-104
Normal human choroidal melanocytes	Djirackor et al.; Invest Ophthalmol Vis Sci. 2019 Jun 3;60(7):2696-2704
Human hair follicle derived melanocyte stem cells (HuHF MeSCs)	Zhou et al.; Sci Rep. 2019 Mar 26;9(1):5198
Primary adult canine Schwann cells from sciatic nerve	Schmitte et al.; J Neurosci Methods. 2010 Feb 15;186(2):202-8
Primary adult rat Schwann cells from sciatic and median nerves or dorsal root ganglia	Kraus et al.; J Neurotrauma. 2010 Jan;27(1):197-203; Haastert et al.; Nat Protoc. 2007;2(1):99-104; Zhao et al.; Neural Regen Res. 2014 Nov 15;9(22):1961-7; Kornfeld et al.; J Funct Biomater. 2016 Nov 30;7(4)
Primary mouse Schwann cells from sciatic nerve	Walko et al.; Glia. 2013 Aug;61(8):1274-87

Melanocyte Growth Medium M2 (+ modifications)

Cell Type Used	Reference
Primary human pigmented hair follicle melanocytes	Commo et al.; Pigment Cell Res. 2004 Oct;17(5):488-97; Michelet et al.; Exp Dermatol. 2008 Oct;17(10):821-8; Dieckmann et al.; Exp Dermatol. 2010 Jun;19(6):543-5
Adult normal human choroidal melanocytes (from donor eyes) epithelial cells	Valtink and Engelmann; Graefes Arch Clin Exp Ophthalmol. 2007 Oct;245(10):1487-94; Jehs et al.; Invest Ophthalmol Vis Sci. 2016 Dec 1;57(15):6568-6579

Chondrocyte Growth Medium (+ modifications)

Cell Type Used	Reference
Primary human costal chondrocytes from patients with pectus carinatum and pectus excavatum	Asmar et al.; Exp Mol Pathol. 2018 Nov 25;106:27-33

Osteoblast Growth Medium (+ modifications)

Cell Type Used	Reference
Primary cells isolated from antler growth region of deer (STRO-1 ⁺ cells)	Rolf et al.; PloS One. 2008 Apr 30;3(4):e2064
hFOB (human fetal osteoblastic cell line)	Niu et al.; Cell Prolif. 2015 Jun;48(3):348-55; Stolzoff and Webster; J Biomed Mater Res A. 2016 Feb;104(2):476-82
Saos-2 (human osteosarcoma cell line)	Stougaard et al.; BMC Rheumatol 2018 Nov 19, 2:33
MC3T3-E1 mouse preosteoblast cell line	Pajovich and Banerjee; J Funct Biomater. 2017 Sep 20;8(3)

Osteoblast Mineralization Medium (+ modifications)

Cell Type Used	Reference
Mesenchymal cells isolated from the calvariae of neonatal mice	Deloch et al.; Int J Mol Sci. 2018 Oct 16;19(10)
MC3T3-E1 mouse preosteoblast cell line	Pajovich and Banerjee; J Funct Biomater. 2017 Sep 20;8(3)
SK-ES-1 (HTB-96) and Saos-2 (ATCC HTB85), human osteosarcoma cell lines	Heckt et al.; Bone. 2016 Aug 20;92:85-93; Stougaard et al.; BMC Rheumatol 2018 Nov 19, 2:33

Preadipocyte/Adipocyte Media (+ modifications)

Cell Type Used	Reference
Primary murine preadipocytes, isolated from inguinal fat pads	Abdelkarim et al.; J Biol Chem. 2010 Nov 19;285(47):36759-67

Skeletal Muscle Cell Media (+ modifications)

Cell Type Used	Reference
Primary human skeletal muscle cells from a donor with clinical symptoms of Myotonic Dystrophy Type 2	Sammons et al.; PLoS One. 2010 Feb 18;5(2):e9301
Primary human cells derived from a dysferlinopathy-affected patient [Skeletal Muscle Cell Growth Medium; Skeletal Muscle Differentiation Medium]	Barthelemy et al.; Methods Mol Biol. 2018;1828:489-496
Multipotent human adipose-derived stem cells, differentiated into skeletal myocytes [Skeletal Muscle Differentiation Medium]	Rodriguez et al.; J Exp Med. 2005 May 2;201(9):1397-405
Human iPS cells: differentiation into skeletal muscle cells [SkMC Differentiation Medium]	Lenzi et al.; Stem Cell Res. 2016 Jun 8;17(1):140-147
Primary human skin fibroblasts transdifferentiated into myoblasts [SkMC Growth and Differentiation Media]	Incitti et al.; Mol Ther. 2010 Sep;18(9):1675-82
Primary myoblasts, isolated from the hind limb muscles of mice	Judson et al.; J Cell Sci. 2012 Dec 15;125(Pt 24):6009-19
Primary skeletal muscle cells from the hindlimbs of newborn rabbits	Hanke et al.; Am J Physiol Cell Physiol. 2010 Apr; 298(4):C910-20; Kubis at al.; J Physiol. 2002 Jun 15;541(Pt 3): 835-47; Meissner et al.; J Physiol. 2001 May 15;533(Pt 1):215-26
Canine skeletal muscle cell line, established through primary culture	Niessen et al.; Domest Anim Endocrinol. 2012 Jul;43(1):16-25
Zebrafish myogenic muscle cells from dorsal muscle	Alexander et al.; Muscle Nerve. 2011 May;43(5):741-50
Human hTERT immortalized myoblasts	Zhou et al.; Hum Mutat. 2013 Jul;34(7):986-96; Rokach et al.; Biochem J. 2013 Oct 15;455(2): 169-77
HMCL-7304 human myotubes (immortalized myoblast cell line)	Kemaladewi et al.; BMC Med Genomics. 2011 Apr 20;4:36; Wang et al.; Peer J. 2016 Jan 26;4:e1624
KM155C25 (human myoblast cell line)	Boehm et al.; J Clin Invest. 2016 Nov 1;126(11):4237-4249; van Agtmaal et al.; Mol Ther. 2017 Jan 4;25(1):24-43
LHCN-M2 (immortalized human myoblasts)	van Agtmaal et al.; Mol Ther. 2017 Jan 4;25(1):24-43; Gudde et al.; Biochim Biophys Acta. 2017 Jun;1860(6):740-749

Skeletal Muscle Cell Media (+ modifications)

Cell Type Used	Reference
CD133 ⁺ cells from human muscle biopsies [myogenic differentiation with SkMC Differentiation Medium]	Meng et al.; Stem Cell Res. 2018 Jul;30:43-52
DM11 (immortalized human DM1 myoblasts)	Gudde et al.; Biochim Biophys Acta. 2017 Jun;1860(6):740-749; André et al.; PLoS One. 2019 May 22;14(5):e0217317; van Agtmaal et al.; Mol Ther. 2017 Jan 4;25(1):24-43
C25C148 (immortalized human myoblasts from an unaffected individual)	Baradaran-Heravi et al.; Proc Natl Acad Sci U S A. 2017 Mar 28;114(13):3479-3484; Prueller et al.; PLoS One. 2018 Sep 17;13(9):e0202574
P28L and R26Q cell lines (human immortalized myoblasts from Cav3 mutant patients)	Dewulf et al.; Nat Commun. 2019 Apr 29;10(1):1974
HSK001 (immortalized human myoblasts from a DMD patient)	Baradaran-Heravi et al.; Proc Natl Acad Sci U S A. 2017 Mar 28;114(13):3479-3484
C2C12 (mouse myoblast cell line; ATCC CRL-1772)	Volpers et al.; J Virol. 2003 Feb;77(3):2093-104

Smooth Muscle Cell Growth Medium 2 (+ modifications)

Cell Type Used	Reference
Primary human smooth muscle cells from carotid	Hodroj et al.; Arterioscler Thromb Vasc Biol. 2007 Mar;27(3):525-31
Primary human cavernosal smooth muscle cells	Pilatz et al.; Eur Urol. 2005 May;47(5):710-8
Primary human internal mammary artery smooth muscle cells	Shi et al.; Macromol Biosci. 2012 Mar;12(3):395-401
Primary human valve interstitial cells	Fondard et al.; Eur Heart J. 2005 Jul;26(13):1333-41
Primary human aortic valve myofibroblasts from surgically resected stenotic calcified heart valves	Beaufort et al.; Cell Microbiol. 2011 Aug;13(8):1149-67
Primary atheroma-derived smooth muscle cells from human atherosclerotic plaques	Cole et al.; Proc Natl Acad Sci U S A. 2011 Feb 8;108(6):2372-7
Primary human suburothelial myofibroblasts from tumor-free bladder tissue samples	Cheng et al.; PLoS One. 2011;6(10):e25769

Smooth Muscle Cell Growth Medium 2 (+ modifications)

Cell Type Used	Reference
Primary mouse aortic smooth muscle cells	Braunersreuther et al.; Arterioscler Thromb Vasc Biol. 2007 Feb;27(2):373-9; Suresh Babu et al.; BMC Cancer. 2014 Feb 20;14:113; Wheeler et al.; J Am Heart Assoc. 2015 Feb 25;4(3); Akerman et al.; J Am Heart Assoc. 2019 Jan 8;8(1):e010332
Primary mouse pulmonary artery smooth muscle cells	Wallace et al.; Am J Respir Crit Care Med. 2015 Jun 15;191(12):1432-42
Primary rat aortic smooth muscle cells	Schrepfer et al.; Menopause. 2006;13(3):489-99; Hamlat et al.; Diabetes Metab. 2010 Jun;36(3):221-8; Virsolvy et al.; Sci Rep. 2015 Dec 10;5:17969
Primary rat pulmonary vein smooth muscle cells	Wang et al.; Mol Med Rep. 2016 Feb;13(2):1577-85
Primary dog vascular smooth muscle cells (from beagles)	Sagban et al.; Advanced Engineering Materials 2011 Dec;13(12):B518-B528
Primary porcine pulmonary artery smooth muscle cells	Kavarana et al.; Ann Thorac Surg. 2013 Oct;96(4):1442-9
Primary detrusor smooth muscle cells (urinary bladder cells) from adult Göttingen minipigs & juvenile German Landrace pigs	Leonhaeuser et al.; J Biomater Appl. 2016 Feb;30(7):961-73; Leonhaeuser et al.; Journal of Translational Medicine. 2017;15:3
NP110 and NP88 cell lines (derived from the human embryonic stem cell line hES3)	West et al.; Stem Cell Res Ther. 2019 Jan 8;10(1):7

Mesenchymal Stem Cell Media (+ modifications)

Cell Type Used	Reference
CD44 ⁺ vascular wall-resident multipotent stem cells isolated from human internal thoracic artery [MSC Growth Medium]	Klein et al.; PLoS One. 2011;6(5):e20540
Multipotent postnatal stem/progenitor cells from human alveolar bone proper tissue of the oral cavity [MSC Adipogenic & Chondrogenic Differentiation Media]	Fawzy El-Sayed et al.; J Craniomaxillofac Surg. 2012 Dec;40(8):735-42
Human gingival margin-derived stem/ progenitor cells [MSC Adipogenic, Chondrogenic & Osteogenic Differentiation Media]	El-Sayed et al.; Int J Oral Sci. 2015 Jun 26;7(2):80-8
Human dental pulp stem cells (periodontal ligament stem cells from apical papilla) [MSC Neurogenic Differentiation Medium]	Lee et al.; J Korean Assoc Oral Maxillofac Surg. 2014 Aug; 40(4):173-180; Seonwoo et al.; Nanomaterials (Basel).2018 Jul 21;8(7)
Human amniotic membrane-derived fibroblasts [MSC Neurogenic Differentiation Medium]	Higa et al.; Invest Ophthalmol Vis Sci. 2019 Sep 3;60(12):3718-3726
Multipotent postnatal stem/progenitor cells from the gingival margin of miniature-pigs [MSC Adipogenic, Chondrogenic & Osteogenic Differentiation Media]	Fawzy El-Sayed et al.; J Clin Periodontol. 2012 Sep;39(9):861-70
Primary pig adipose-derived stem cells, normal & radiation-injured [MSC Chondrogenic & Osteogenic Differentiation Media]	Jeong et al.; Stem Cell Res Ther. 2016 Aug 17;7(1):117
Mouse bone marrow derived stromal cells [MSC Chondrogenic Differentiation Medium]	Wang et al.; Exp Cell Res. 2013 Mar 10;319(5):623-32

Mesenchymal Stem Cell Media (+ modifications)

Cell Type Used	Reference
Primary mouse bone marrow mesenchymal stem cells of 5-7-week-old C57BL/6J mice [MSC Osteogenic Differentiation Medium; MSC Adipogenic Differentiation Medium 2; MSC Chondrogenic Differentiation Medium]	Herz et al.; Brain Behav Immun. 2018 May;70:118-130
Rabbit bone marrow derived mesenchymal stem cells [MSC Chondrogenic Differentiation Medium; MSC Cell Adipogenic Differentiation Medium]	Tanaka et al.; Am J Transl Res. 2016;8(5):2222-33
Rat cranial bone-derived MSC (rcMSC), Rat bone marrow-derived MSC (rbMSC) [MSC Osteogenic Differentiation Medium]	Abiko et al.; Stem Cells Dev. 2018 Aug 1;27(15):1053-1061

Pericyte Growth Medium (+ modifications)

Cell Type Used	Reference
Perivascular cells from human adipose	Huber et al.; Cell Biol Int. 2015 Dec;39(12):1395-407
Primary human retinal pericytes	Jung et al.; Biochim Biophys Acta. 2015 Sep 21;1852(12):2618-2629
Porcine aortic vascular precursor cells	Zaniboni et al.; Am J Physiol Cell Physiol. 2015 Sep 1;309(5):C320-31; Bernardini et al.; Comp Biochem Physiol C Toxicol Pharmacol. 2016 Mar 8;185-186:38-44
Primary porcine vascular wall-Mesenchymal Stem Cells	Bernardini et al.; BMC Vet Res. 2019 Apr 27;15(1):123

Macrophage Media XF (+ modifications)

Cell Type Used	Reference
Tumor-associated macrophages (TAMs) from human colon cancer [M1 Macrophage Generation Medium XF]	Le et al.; Nat Commun. 2018 Jun 5;9(1):2175
Polarized and mature M1 and M2 mouse macrophages (differentiated from mouse PBMC)	Yu et al.; Biomedicine (Taipei). 2016 Mar;6(1):5
Canine M2 macrophages [M2 Macrophage Generation Medium XF]	Rybicka et al.; J Physiol Pharmacol. 2016 Aug;67(4):491-500

Monocyte Attachment Medium (+ modifications)

Cell Type Used	Reference
Bovine blood mononuclear cells from the tail vein	Emam et al.; J Dairy Sci. 2019 Oct;102(10):9107-9116
Canine monocytes, obtained from anti-coagulated whole blood	Rybicka et al.; J Physiol Pharmacol. 2016 Aug;67(4):491-500

Lymphocyte Separation Medium 1077 (+ modifications)

Cell Type Used	Reference
Isolation of porcine PBMC	Fiebig et al.; Viruses. 2018 Feb 6;10(2)

3D Tumorsphere Medium (+ modifications) / formerly CSC Medium

Cell Type Used	Reference
HCT116 cell line, 5-FU resistant HCT116 cells, HT29 cell line (human colon carcinoma cells)	Ndreshkjana et al.; Cell Death Dis. 2019 May 16;10(6):379

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