

Primary Normal Human Cells and Media

In Vivo Relevance. *In Vitro* Results.

Airway Epithelial Cells*

SAEC – Small Airway Epithelial Cells (1 mm bronchiole)
NHBE – Bronchial/Tracheal Epithelial Cells
— SAGM™ Small Airway Epithelial Cell Growth Medium
— BEGM® Bronchial Epithelial Cell Growth Medium
— B-ALI™ and S-ALI™ Air-liquid Interface Medium

Mammary Epithelial Cells

HMEC – Mammary Epithelial Cells HMEC test positive for cytokeratins 14 and 18, and negative for cytokeratin 19
— MEGM® Mammary Epithelial Cell Growth Medium

Endothelial Cells*

Large vessels – Aorta, umbilical artery and vein, and coronary, iliac and pulmonary artery
Small vessels – Dermal, cardiac, lung, single or pooled donors
— EGM® or EGM® 2 Endothelial Media
— EGM® 2MV Endothelial Media

Fibroblasts

NHDF-Ad – Adult Dermal Fibroblasts
AoAF – Aorta Adventitial Fibroblasts
NHDF-Neo – Neonatal Dermal Fibroblasts
NHLF – Lung Fibroblasts*
— FGM® 2 Fibroblast Growth Medium-2
— FGM® 3 Fibroblast Growth Medium-3
— SCGM™ Stromal Cell Growth Medium

Keratinocytes*

NHEK-Ad – Adult Epidermal Keratinocytes
NHEK-Neo – Neonatal Epidermal Keratinocytes Cells from single or pooled donors
— KGM® Gold Keratinocyte Growth Medium

Melanocytes

NHEM-Neo – Neonatal Epidermal Melanocytes
NHEM-Ad – Adult Epidermal Melanocytes
— MGM® 4 Melanocyte Growth Medium-4
(add ET-3 for adult melanocytes)

Smooth Muscle Cells*

Smooth Muscle Cells are obtained from the aorta, pulmonary artery, major bronchia, umbilical artery, coronary artery, prostate.
— SmGM® 2 Smooth Muscle Growth Medium-2

Mononuclear Cells

Mononuclear cells are isolated via density gradient separation from peripheral blood (PBMC), bone marrow.
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Renal Cells

HRE – Renal Epithelial Cells
HRCE – Renal Cortical Epithelial Cells
RPTEC – Renal Proximal Tubule Epithelial Cells*

Skeletal Muscle Cells

HSMM – Skeletal Muscle Myoblasts*
(post-gestational tissue, quadriceps or psoas)
— SkGM® 2 Skeletal Muscle Cell Growth Medium-2

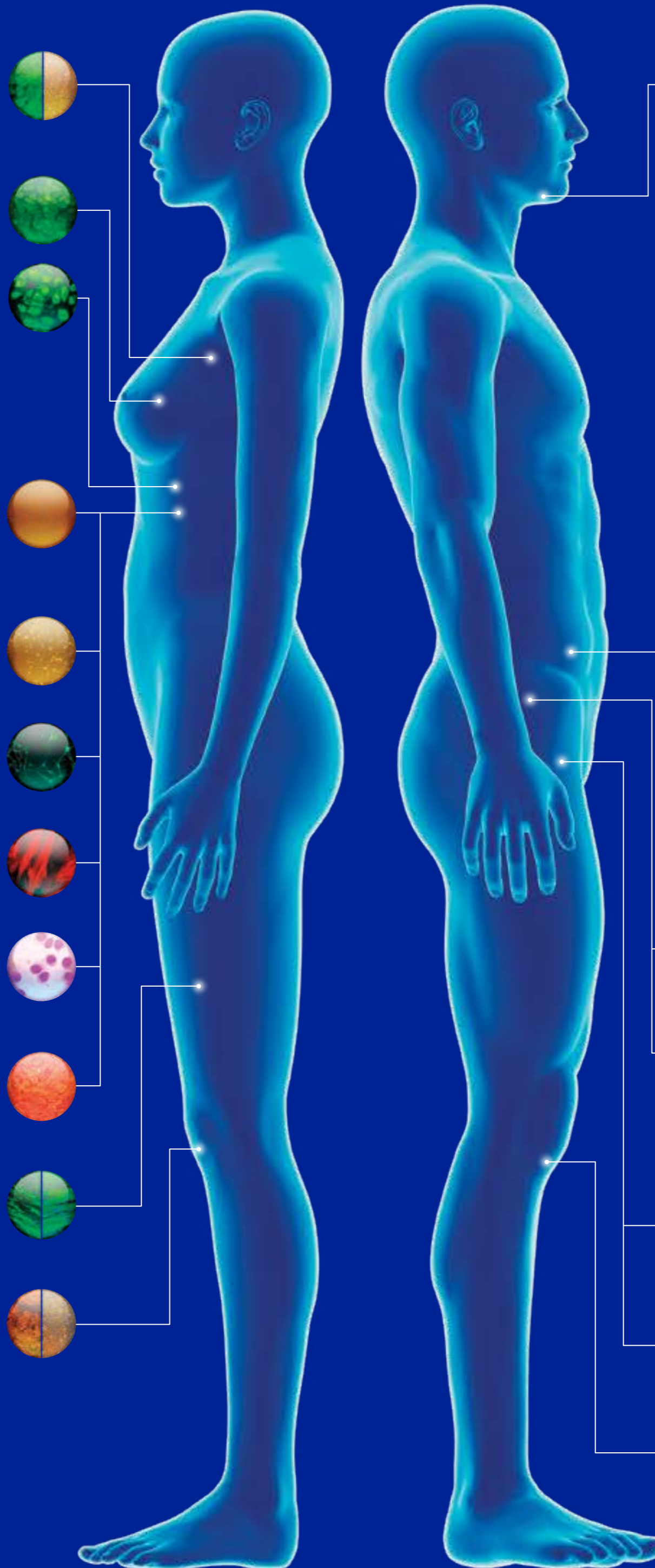
Skeletal Cells

NHOst – Osteoblasts
NHAC-kn – Articular Chondrocytes (knee)
— OGM™ Osteoblast Growth Medium
— OGM™ Differentiation SingleQuots®
— CGM™ Chondrocyte Growth Medium
— CDM™ Chondrocyte Differentiation Medium

*Diseased Cells also available

Additional Media

— AGM™ Astrocyte Growth Media
— PrEGM™ Prostate Epithelial Cell Growth Medium
— RtEGM™ Retinal Pigment Epithelial Cell Growth Medium
— SCGM™ Stromal Cell Growth Medium
— SmGM® 2 Smooth Muscle Growth Medium-2



Dental Pulp Stem Cells

Stem cells harvested from human third molars
— DPSC Dental Pulp Stem Cell Growth Medium

CD14⁺ Monocytes

Monocytes are isolated from the peripheral blood of screened, healthy donors via CD14⁺ immunomagnetic separation. 90% pure CD14⁺ guarantee.
— X-VIVO® 15 Serum-free Hematopoietic Cell Medium

CD34⁺ Cells

CD34⁺ cells are available from bone marrow and cord blood, and are isolated via density gradient followed by immunomagnetic separation. 90% pure CD34⁺ guarantee.
— X-VIVO® 10 Serum-free Hematopoietic Cell Medium

Dendritic Cells

Dendritic cells are differentiated from isolated mononuclear cells by culturing with GM-CSF and IL-4 and are tested for expression of various markers, including CD11c⁺ and CD86⁺.
— LGM™ 3 Lymphocyte Growth Medium-3
(serum-free medium for lymphocyte cell growth)
— X-VIVO® 15 Serum-free Hematopoietic Cell Medium

Peripheral Blood Mononuclear Cells (PBMCs)

PBMCs can be used to isolate and differentiate various different cell types, including T cells, monocytes, and dendritic cells.
— X-VIVO® 15 Serum-free Hematopoietic Cell Medium
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T Cells

CD4⁺ T cells are isolated from peripheral blood via immunomagnetic separation. 90% pure CD4⁺ guarantee.
— X-VIVO® 15 Serum-free Hematopoietic Cell Medium

Natural Killer (NK) Cells

NK cells are isolated from peripheral blood of normal donors via positive or negative immunomagnetic separation and tested for various markers, including CD56⁺ and CD16⁺. 90% pure CD56⁺ guarantee.
— LGM™ 3 Lymphocyte Growth Medium-3
(serum-free medium for lymphocyte cell growth)
— X-VIVO® 15 Serum-free Hematopoietic Cell Medium

Pancreatic Islets

Pancreatic Islets are made-to-order through Lonza's CellBio Service.

Fresh Bone Marrow

Unprocessed human bone marrow is available from normal donors and can be used to isolate various cell types. Matched bone marrow and peripheral blood from the same donor are also available.

Mesenchymal Stem Cells

Cells are cryopreserved at passage 2, express CD73, CD90, CD105, CD166 and CD44, but not CD14, CD19, CD34, CD45 and HLA-DR, and can successfully differentiate towards adipogenic, chondrogenic and osteogenic lineages
— MSCGM™ Mesenchymal Stem Cell Growth Medium
— hMSC Chondrogenic Differentiation Medium
— hMSC Osteogenic Differentiation Medium
— hMSC Adipogenic Differentiation Medium

Hepatocytes

Purified hepatocytes are available fresh or cryopreserved. Cryopreserved cells are pre-qualified for plateability and suitability for metabolism studies.
— HCM™ Hepatocyte Culture Medium
— HMM Hepatocytes maintenance medium

Preadipocyte Cells*

Subcutaneous preadipocytes
Visceral preadipocytes
Matched donor samples are available
— PGM™ 2 Preadipocyte Growth Medium-2

Osteoclast Precursor Cells

Cells differentiate into mature osteoclasts and then stain positive for TRAP, resorb bone, and express the calcitonin receptor.
— OCP Osteoclast Precursor Medium

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