

List of papers with Cosmo Bio 2-deoxyglucose uptake assay Kit

Title of Paper	Authors	Citation	PMID	Grouping
Aculeatin, a coumarin derived from <i>Toddalia asiatica</i> (L.) Lam., enhances differentiation and lipolysis of 3T3-L1 adipocytes.	Watanabe A et al.	Biochem Biophys Res Commun. 2014 Oct 31;453(4):787-92.	PMID: 25445590	Cells
Improvement of insulin signaling in myoblast cells by an addition of SKIP-binding peptide within Pak1 kinase domain.	Ijuin T and Takenawa T,	Biochem Biophys Res Commun. 2015 Jan 2;456(1):41-6.	PMID: 25446075	Cells
Myostatin alters glucose transporter-4 (GLUT4) expression in bovine skeletal muscles and myoblasts isolated from double-muscling (DM) and normal-muscling (NM) Japanese shorthorn cattle.	Takahashi H et al.	Domest Anim Endocrinol. 2014 Jul;48:62-8.	PMID: 24906930	Cells
Resveratrol protects against polychlorinated biphenyl-mediated impairment of glucose homeostasis in adipocytes.	Nicki A et al.	J Nutr Biochem. 2013 Dec;24(12):2168-74.	PMID: 24231106	Cells
Reduced histone H3K9 acetylation of clock genes and abnormal glucose metabolism in ob/ob mice.	Ishikawa-Kobayashi E et al.	Chronobiol Int. 2012 Oct;29(8):982-93.	PMID: 22891617	Cells
Receptor for advanced glycation end products regulates adipocyte hypertrophy and insulin sensitivity in mice: involvement of Toll-like receptor 2.	Monden M et al.	Diabetes. 2013 Feb;62(2):478-89	PMID: 23011593	Cells
Insulin sensitivity is inversely related to cellular energy status, as revealed by biotin deprivation.	Salvador-Adriano A et al.	Am J Physiol Endocrinol Metab. 2014 Jun 15;306(12):E1442-8.	PMID: 24801390	Cells
Water-Soluble C60-(OH)24 Fullerene Hydroxide Protects against the Catabolic Stress-Induce Downregulation of Chondrocyte Activity in Osteoarthritis.	Yoshioka H et al.	J Nanotech Smart Mater. 2014;1:401	None	Cells
Avicularin, a plant flavonoid, suppresses lipid accumulation through repression of C/EBP α -activated GLUT4-mediated glucose uptake in 3T3-L1 cells.	Fujimori K and Shibano M	J Agric Food Chem. 2013 May 29;61(21):5139-47.	PMID: 23647459	Cells
Paternal allele influences high fat diet-induced obesity.	Morita S et al.	PLoS One. 2014 Jan 8;9(1):e85477.	PMID: 24416415	Cells
Tropomodulin3 is a novel Akt2 effector regulating insulin-stimulated GLUT4 exocytosis through cortical actin remodeling.	Lim CY et al.	Nat Commun. 2015 Jan 9;6:5951.	PMID: 25575350	Cells
Autophagy deficiency leads to protection from obesity and insulin resistance by inducing Fgf21 as a mitokine.	Kim KH et al.	Nat Med. 2013 Jan;19(1):83-92.	PMID: 23202295	Cells
The edible red alga, <i>Gracilaria verrucosa</i> , inhibits lipid accumulation and ROS production, but improves glucose uptake in 3T3-L1 cells.	Woo MS et al.	Phytother Res. 2013 Jul;27(7):1102-5.	PMID: 22991308	Cells
Synip phosphorylation is required for insulin-stimulated Glut4 translocation and glucose uptake in podocyte.	Yamada E et al.	Endocr J. 2014;61(5):523-7.	PMID: 24705589	Cells
Bioengineered 3D human kidney tissue, a platform for the determination of nephrotoxicity.	DesRochers TM et al.	PLoS One. 2013;8(3):e59219.	PMID: 23516613	Cells
Hydroxyecosapentaenoic acids from the Pacific krill show high ligand activities for PPARs.	Yamada H et al.	J Lipid Res. 2014 May;55(5):895-904.	PMID: 24668940	Cells
Retention of acetylcarnitine in chronic kidney disease causes insulin resistance in skeletal muscle.	Miyamoto Y et al.	J Clin Biochem Nutr. 2016 Nov;59(3):199-206.	PMID: 27895387	Cells
Lignosulfonic Acid-Induced Inhibition of Intestinal Glucose Absorption.	Hasegawa Y et al.	J Nutr Sci Vitaminol (Tokyo). 2015;61(6):449-54.	PMID: 26875485	Cells
D-Allose Inhibits Cancer Cell Growth by Reducing GLUT1 Expression.	Noguchi C et al.	Tohoku J Exp Med. 2016;238(2):131-41.	PMID: 26829886	Cells
Role of plasminogen activator inhibitor-1 in glucocorticoid-induced diabetes and osteopenia in mice.	Tamura Y et al.	Diabetes. 2015 Jun;64(6):2194-206.	PMID: 25552599	Cells
Enhancement of energy production by black ginger extract containing polymethoxy flavonoids in myocytes through improving glucose, lactic acid and lipid metabolism.	Toda K et al.	J Nat Med. 2016 Apr;70(2):163-72.	PMID: 26581843	Cells
5-aminolevulinic acid combined with ferrous ion reduces adiposity and improves glucose tolerance in diet-induced obese mice via enhancing mitochondrial function.	Ota U et al.	BMC Pharmacol Toxicol. 2017 Jan 30;18(1):7.	PMID: 28132645	Cells
A novel Alaska pollack-derived peptide, which increases glucose uptake in skeletal muscle cells, lowers the blood glucose level in diabetic mice.	Ayabe T et al.	Food Funct. 2015 Aug;6(8):2749-57.	PMID: 26152190	Cells

Effects of 17 β -Estradiol and Androgen on Glucose Metabolism in Skeletal Muscle.	Inada A et al.	Endocrinology. 2016 Dec;157(12):4691-4705.	PMID: 27653033	Cells
Inhibition of SGLT2 alleviates diabetic nephropathy by suppressing high glucose-induced oxidative stress in type 1 diabetic mice.	Hatanaka T et al.	Pharmacol Res Perspect. 2016 May 30;4(4):e00239.	PMID: 28116093	Cells
The Apoptotic Effect of HIF-1 α Inhibition Combined with Glucose plus Insulin Treatment on Gastric Cancer under Hypoxic Conditions.	Tanaka T et al.	PLoS One. 2015 Sep 4;10(9):e0137257.	PMID: 26339797	Cells
Diabetes-Related Ankyrin Repeat Protein (DARP/Ankrd23) Modifies Glucose Homeostasis by Modulating AMPK Activity in Skeletal Muscle.	Shimoda Y et al.	PLoS One. 2015 Sep 23;10(9):e0138624.	PMID: 26398569	Cells
Deficiency of Fc ϵ R1 Increases Body Weight Gain but Improves Glucose Tolerance in Diet-Induced Obese Mice.	Lee YJ et al.	Endocrinology. 2015 Nov;156(11):4047-58.	PMID: 26295369	Cells
Genome-wide analysis of histone modifications in human endometrial stromal cells.	Tamura I et al.	Mol Endocrinol. 2014 Oct;28(10):1656-69.	PMID: 25073104	Cells
Targeting the facilitative glucose transporter GLUT1 inhibits the self-renewal and tumor-initiating capacity of cancer stem cells.	Shibuya K et al.	Oncotarget. 2015 Jan 20;6(2):651-61.	PMID: 25528771	Cells
Inhibition of soluble epoxide hydrolase modulates inflammation and autophagy in obese adipose tissue and liver: role for omega-3 epoxides.	López-Vicario C et al.	Proc Natl Acad Sci U S A. 2015 Jan 13;112(2):536-41.	PMID: 25550510	Cells
PAQR3 modulates insulin signaling by shunting phosphoinositide 3-kinase p110 α to the Golgi apparatus.	Wang X et al.	Diabetes. 2013 Feb;62(2):444-56.	PMID: 23086038	ex vivo
SIK2 is critical in the regulation of lipid homeostasis and adipogenesis in vivo.	Park J et al.	Diabetes. 2014 Nov;63(11):3659-73.	PMID: 24898145	ex vivo
Expression of SGLT1 in Human Hearts and Impairment of Cardiac Glucose Uptake by Phlorizin during Ischemia-Reperfusion Injury in Mice.	Kashiwagi Y et al.	PLoS One. 2015 Jun 29;10(6):e0130605.	PMID: 26121582	ex vivo
Dietary combination of sucrose and linoleic acid causes skeletal muscle metabolic abnormalities in Zucker fatty rats through specific modification of fatty acid composition.	Ohnami H et al.	J Clin Biochem Nutr. 2014 Jul;55(1):15-25.	PMID: 25147427	in vivo
Vascular rarefaction mediates whitening of brown fat in obesity.	Shimizu I et al.	J Clin Invest. 2014 May;124(5):2099-112.	PMID: 24713652	in vivo
mTORC2 sustains thermogenesis via Akt-induced glucose uptake and glycolysis in brown adipose tissue.	Albert V et al.	EMBO Mol Med. 2016 Mar 1;8(3):232-46.	PMID: 26772600	in vivo
Neurophysiologic and antipsychotic profiles of TASP0433864, a novel positive allosteric modulator of metabotropic glutamate 2 receptor.	Hiyoshi T et al.	J Pharmacol Exp Ther. 2014 Dec;351(3):642-53.	PMID: 25277141	in vivo
Skeletal muscle insulin resistance in zebrafish induces alterations in β -cell number and glucose tolerance in an age- and diet-dependent manner.	Maddison LA et al.	Am J Physiol Endocrinol Metab. 2015 Apr 15;308(8):E662-9.	PMID: 25670827	in vivo
Nrf2-Mediated Regulation of Skeletal Muscle Glycogen Metabolism.	Uruno A et al.	Mol Cell Biol. 2016 May 16;36(11):1655-72.	PMID: 27044864	in vivo
SUMO expression shortens the lag phase of <i>Saccharomyces cerevisiae</i> yeast growth caused by complex interactive effects of major mixed fermentation inhibitors found in hot-compressed water-treated lignocellulosic hydrolysate.	Jayakody LN et al.	Appl Microbiol Biotechnol. 2015 Jan;99(1):501-15.	PMID: 25359478	Others