

	Stem Cell type	Landmark reports
Type 1 Diabetes	HSCs	Voltarelli J.C. <i>et al.</i> , 2007 D'Addio F., 2014 Ye L. <i>et al.</i> , 2017
	MSCs	Cai J. <i>et al.</i> , 2016 Ulyanova O. <i>et al.</i> , 2019
Type 2 Diabetes	iPSCs	Alipio Z. <i>et al.</i> , 2010
	MSCs	Bhansali A. <i>et al.</i> , 2014 Bhansali S. <i>et al.</i> , 2017 Al Demour S. <i>et al.</i> , 2018 Chen Y. <i>et al.</i> , 2018
Obesity	ASCs	Yoshimura K. <i>et al.</i> , 2006 Cao M. <i>et al.</i> , 2015 Lee C.W. <i>et al.</i> , 2017
	iPSCs	Kishida T. <i>et al.</i> , 2015
	NSCs	Li J. <i>et al.</i> , 2014 Ren Z. <i>et al.</i> , 2020
Lysosomal Storage Diseases	HSCs	Dunbar C. <i>et al.</i> , 1996 Lönnqvist T. <i>et al.</i> , 2001 Biffi A. <i>et al.</i> , 2006 Yoshimitsu M. <i>et al.</i> , 2007 Enquist I.B. <i>et al.</i> , 2009 van Til N.P. <i>et al.</i> , 2010 Mynarek M. <i>et al.</i> , 2012 Biffi A. <i>et al.</i> , 2013 Sessa M. <i>et al.</i> , 2016
	NSCs	Snyder E. Y. <i>et al.</i> , 1995 Lacorazza H.D. <i>et al.</i> , 1996 Buchet D. <i>et al.</i> , 2002 Meng X. L. <i>et al.</i> , 2003 Shihabuddin L. S. <i>et al.</i> , 2004 Sidman R. L. <i>et al.</i> , 2007
	iPSCs	Doerr J. <i>et al.</i> , 2015 Griffin, T. A. <i>et al.</i> , 2015 Meneghini V. <i>et al.</i> , 2017 Kobolak J. <i>et al.</i> , 2019 Clarke D. <i>et al.</i> , 2018

Supplemental Table 1. Landmark reports of stem cell (gene) therapy application in animal models and/or human patients for the different metabolic disorders. Abbreviations: iPSCs: induced Pluripotent Stem Cells; MSCs: Mesenchymal Stem Cells; ESCs: Embryonic Stem Cells; HSCs: Hematopoietic Stem Cells; ASCs: Adipose-derived mesenchymal Stem Cells; NSCs: Neuronal Stem Cells