

Table S1. Glycosphingolipid structures mentioned in this study

Trivial name	Structure
<i>I. Non-acid glycosphingolipids</i>	
GalCer	Gal β 1Cer
GlcCer	Glc β 1Cer
LacCer	Gal β 4Glc β 1Cer
Galabia	Gal α 4Gal β 1Cer
Lactotri	GlcNAc β 3Gal β 4Glc β 1Cer
Gangliotri/asialoGM2	GalNAc β 4Gal β 4Glc β 1Cer
Globotri	Gal α 4Gal β 4Glc β 1Cer
Globotetra	GalNAc β 3Gal α 4Gal β 4Glc β 1Cer
Globopenta/SSEA-3	Gal β 3GalNAc β 3Gal α 4Gal β 4Glc β 1Cer
Globo H	Fuc α 2Gal β 3GalNAc β 3Gal α 4Gal β 4Glc β 1Cer
Lactotetra	Gal β 3GlcNAc β 3Gal β 4Glc β 1Cer
Fucosyl-lactotetra/H type 1 penta	Fuc α 2Gal β 3GlcNAc β 3Gal β 4Glc β 1Cer
H type 2 penta	Fuc α 2Gal β 4GlcNAc β 3Gal β 4Glc β 1Cer
Le ^x penta	Gal β 4(Fuc α 3)GlcNAc β 3Gal β 4Glc β 1Cer
Le ^y hexa	Fuc α 2Gal β 4(Fuc α 3)GlcNAc β 3Gal β 4Glc β 1Cer
A type 1 hexa	GalNAc α 3(Fuc α 2)Gal β 3GlcNAc β 3Gal β 4Glc β 1Cer
<i>II. Acid glycosphingolipids</i>	
GM3	NeuAc α 3Gal β 4Glc β 1Cer
GM2	GalNAc β 4(NeuAc α 3)Gal β 4Glc β 1Cer
GM1	Gal β 3GalNAc β 4(NeuAc α 3)Gal β 4Glc β 1Cer
NeuGcGM1	Gal β 3GalNAc β 4(NeuGc α 3)Gal β 4Glc β 1Cer
GD3	NeuAc α 8NeuAc α 3Gal β 4Glc β 1Cer
GD1a	NeuAc α 3Gal β 3GalNAc β 4(NeuAc α 3)Gal β 4Glc β 1Cer
GD1b	Gal β 3GalNAc β 4(NeuAc α 8NeuAc α 3)Gal β 4Glc β 1Cer
Sialyl-Le ^a	NeuAc α 3Gal β 3(Fuc α 4)GlcNAc β 3Gal β 4Glc β 1Cer

Sialyl-Le ^x	NeuAc α 3Gal β 4(Fuc α 3)GlcNAc β 3Gal β 4Glc β 1Cer
Sialyl-globopenta/SSEA-4	NeuAc α 3Gal β 3GalNAc β 3Gal α 4Gal β 4Glc β 1Cer
Disialyl-globopenta	NeuAc α 3Gal β 3(NeuAc α 6)GalNAc β 3Gal α 4Gal β 4Glc β 1Cer
Sialyl-lactotetra	NeuAc α 3Gal β 3GlcNAc β 3Gal β 4Glc β 1Cer
Sialyl-neolactotetra	NeuAc α 3Gal β 4GlcNAc β 3Gal β 4Glc β 1Cer
Sialyl-globotetra	NeuAc α 3GalNAc β 3Gal α 4Gal β 4Glc β 1Cer
<i>III. Sulfated glycosphingolipids</i>	
Sulfatide	SO ₃ -3Gal β 1Cer
Sulf-LacCer	SO ₃ -3Gal β 4Glc β 1Cer
Sulf-globopenta	SO ₃ -3Gal β 3GalNAc β 3Gal α 4Gal β 4Glc β 1Cer
HNK-1	SO ₃ -3GlcA β 3Gal β 4GlcNAc β 3Gal β 4Glc β 1Cer