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Generation of anti-oligosaccharide antibodies that recognize mammalian glycoproteins by immunization with a novel artificial glycosphingolipid

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**1 Title**

2 Generation of anti-oligosaccharide antibodies that recognize mammalian glycoproteins by  
3 immunization with a novel artificial glycosphingolipid

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**18 Abbreviations**

19 3'-Sialyl-LacNAc, Neu5Ac $\alpha$ 2,3Gal $\beta$ 1,4GlcNAc

20 6'-Sialyl-LacNAc, Neu5Ac $\alpha$ 2,6Gal $\beta$ 1,4GlcNAc

21 6'-Sialyllactose, Neu5Ac $\alpha$ 2,6Gal $\beta$ 1,4Glc

22 AGP,  $\alpha$ 1-acidglycoprotein

23 artGSL(s), artificial glycosphingolipid(s)

24 GM3, Neu5Ac $\alpha$ 2,3Gal $\beta$ 1,4Glc $\beta$ 1Ceramide

25 GM1, Gal $\beta$ 1,3GalNAc $\beta$ 1,4(Neu5Ac $\alpha$ 2,3)Gal $\beta$ 1,4Glc $\beta$ 1Ceramide

26 GD1a, Neu5Ac $\alpha$ 2,3Gal $\beta$ 1,3GalNAc $\beta$ 1,4(Neu5Ac $\alpha$ 2,3)Gal $\beta$ 1,4Glc $\beta$ 1Ceramide

27 Glycosphingolipid(s), GSL(s)

28 LacCer, Gal $\beta$ 1,4Glc $\beta$ 1Ceramide

29 LacNAc, Gal $\beta$ 1,4GlcNAc

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