

Adult-onset CNS sulfatide deficiency causes sex-dependent metabolic disruption in aging

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○ M, CST Cre⁻ ○ M, CST Cre⁺ ○ F, CST Cre⁻ ○ F, CST Cre⁺

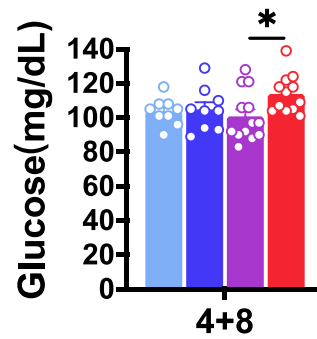


Figure S1. Blood glucose levels measured without fasting at 8 months post tamoxefin injection under normal diet. n=9-14. Multiple t-Test.

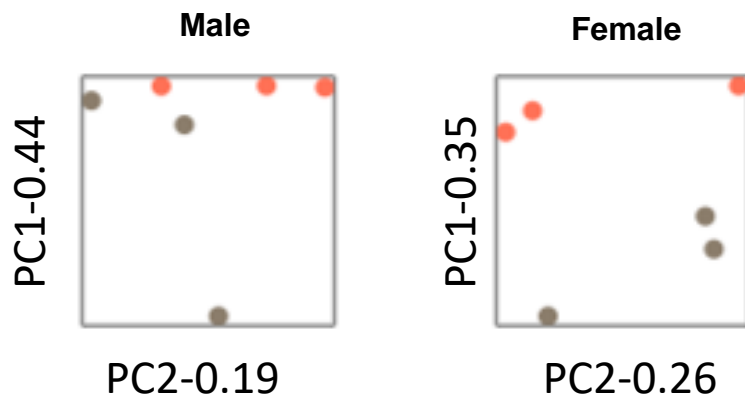
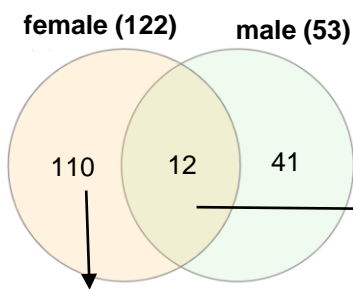
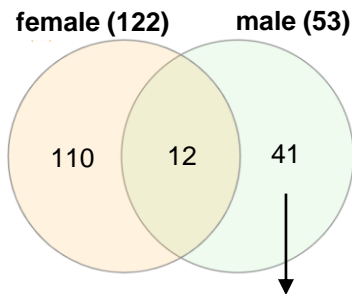


Figure S2. PCA showing that female CST Cre+ cluster in a more distinct manner versus Cre-female mice relative to male CST Cre+ and Cre- mice



<i>Bcl2a1a</i>	<i>Ccl3</i>	<i>Ccl4</i>	<i>Cd86</i>
<i>Ch25h</i>	<i>Gal3st1</i>	<i>lag3</i>	<i>Mmp12</i>
<i>Opalin</i>	<i>Ptpn6</i>	<i>Serina3n</i>	<i>Timp1</i>

<i>Apoe</i>	<i>Atf3</i>	<i>Axl</i>	<i>Bag4</i>	<i>Bcl10</i>	<i>Blnk</i>	<i>Bok</i>	<i>Clqa</i>	<i>Clqb</i>	<i>Clqc</i>
<i>C3</i>	<i>C3ar1</i>	<i>C4a</i>	<i>C5ar1</i>	<i>Cables1</i>	<i>Casp7</i>	<i>Ccl2</i>	<i>Ccl5</i>	<i>Ccl7</i>	<i>Cd109</i>
<i>C4</i>	<i>Cd33</i>	<i>Cd68</i>	<i>Cd72</i>	<i>Cd84</i>	<i>Clec7a</i>	<i>Cotl1</i>	<i>Csf1</i>	<i>Csflr</i>	<i>Csf3r</i>
<i>Cst7</i>	<i>Ctss</i>	<i>Cx3cr1</i>	<i>Dock2</i>	<i>ErbB3</i>	<i>F3</i>	<i>Fabp5</i>	<i>Fbln5</i>	<i>Fcer1g</i>	<i>Fcgr1</i>
<i>Fcgr2b</i>	<i>Fcgr3</i>	<i>Fcrls</i>	<i>Fgd2</i>	<i>Gadd45a</i>	<i>Gadd45g</i>	<i>Gpr183</i>	<i>Gpr34</i>	<i>Grn</i>	<i>Hmox1</i>
<i>Hsd11b1</i>	<i>Hspb1</i>	<i>Icam2</i>	<i>Ifi30</i>	<i>Igsf6</i>	<i>Il2rg</i>	<i>Il3ra</i>	<i>Inpp5d</i>	<i>Irak2</i>	<i>Irf8</i>
<i>Itgax</i>	<i>Itgb5</i>	<i>Jag1</i>	<i>Lilrb4a</i>	<i>Ly9</i>	<i>Lyn</i>	<i>Mafk</i>	<i>Man2b1</i>	<i>Mbd3</i>	<i>Mcm2</i>
<i>Mef2c</i>	<i>Mpeg1</i>	<i>Mr1</i>	<i>Msn</i>	<i>Myp</i>	<i>Myc</i>	<i>Ncf1</i>	<i>Nfkb2</i>	<i>Osmr</i>	<i>Pdpn</i>
<i>Pla2g4a</i>	<i>Plcg2</i>	<i>Pros1</i>	<i>Psmb8</i>	<i>Rad51c</i>	<i>Relb</i>	<i>Rsad2</i>	<i>S100a10</i>	<i>Slpr3</i>	<i>Siglecf</i>
<i>Slamf9</i>	<i>Slc10a6</i>	<i>Slco2b1</i>	<i>Sox9</i>	<i>Spp1</i>	<i>Tcirg1</i>	<i>Tgfb1</i>	<i>Tgfb1</i>	<i>Tgm1</i>	<i>Tlr2</i>
<i>Tlr7</i>	<i>Tm4sf1</i>	<i>Tmem204</i>	<i>Tnfrsf1a</i>	<i>Traf2</i>	<i>Trem2</i>	<i>Trp53</i>	<i>Tyrobp</i>	<i>Vav1</i>	<i>Vim</i>



<i>Atg3</i>	<i>Atg5</i>	<i>Atm</i>	<i>Brd2</i>	<i>Casp8</i>	<i>Cd69</i>	<i>Cd70</i>	<i>Creb1</i>	<i>Csk</i>	<i>Ctse</i>
<i>E2f1</i>	<i>Esam</i>	<i>Fcrla</i>	<i>Fdxr</i>	<i>Foxp3</i>	<i>Gpr84</i>	<i>Igf1</i>	<i>Il21r</i>	<i>Irf2</i>	<i>Irf7</i>
<i>Islr2</i>	<i>Itga6</i>	<i>Kcnk13</i>	<i>Kdm4a</i>	<i>Klrl1</i>	<i>Kmt2c</i>	<i>Lig1</i>	<i>Ly6a</i>	<i>Myct1</i>	<i>Pnoc</i>
<i>Ptx3</i>	<i>Rab6b</i>	<i>Ripk1</i>	<i>Setd7</i>	<i>Sin3a</i>	<i>Slamf8</i>	<i>Snca</i>	<i>Tmem119</i>	<i>Tnfrsf11b</i>	<i>Tnfsf8</i>
<i>Vps4a</i>									

Figure S3. DEGs lists in Venn diagrams from female or male CST Cre⁺ vs. CST Cre⁻.