## Supplementary Table 4: Functions of Lipids Detected in Fetal Sheep Cerebral White Matter by MALDI-MS, Negative Ion Mode

Lipid Class	Functions
Phosphatidic Acid (PA) (54)	-Structural component of cell membranes
	-Helps mediate signaling through cell growth, proliferation,
	and reproduction pathways
Phosphatidylethanolamine (PE) (55)	-Inner leaflet of plasma membrane
Phosphatidylglycerol (PG) (56)	-Cell membrane homeostasis
Phosphatidylinositol (PI) (34)	-Membrane structural lipid
	-Substrate for lipid kinases that phosphorylate hydroxyl
	groups
Plasmalogen (PlsEtn) (57)	-Mediates vesicle fusion
	-Component of lipid rafts
Phosphatidylserine (PS) (39)	-Structural lipid-inner leaflet of plasma membrane
	-Myelin membrane component
	-Mediates signaling through Akt
	-Signals apoptosis when on the membrane surface
Lactosylceramide (LacCer) (58)	-Stabilizing structural membrane lipid
Sulfatides (ST) (27)	-Myelin, structural lipid
	-Functional role in myelination