

Supplementary Material

In the Table1 we reported the m/z and the identity of the most representative ion positive peaks of lipid extracted of the medium of H9c2.

Table 1: Assignments of the m/z ratios detected in the positive ion mass spectra of the lipid extracts in the growth medium of HG-H9c2 (44mM glucose) and THG-H9c2 (44 mMglucose+TMAO 50 μ M) cells before and after treatment with Tau 0.5 μ g/ μ L .

m/z	Identity
353.1 \pm 1	C-16 Sph1P
381.3 \pm 1	C-18 Sph1P
449 \pm 1	d18: 1 sphingoid base and phosphocholine headgroup
709 \pm 1	Sphingomyelin (SM)
685 \pm 1	Phosphoethanolamine-Cer (PE-Cer)
783 \pm 1	1-Phospho-(1'-myo-inositol)-Cer(d18:0/16:0)
1111 \pm 1	MIPC(N-(hexacosanoyl)-eicosasphinganine-1-O-[D-mannopyranosyl-alpha1-2-myoinositol-1-phosphate])
1200 \pm 1	PIM2 (2'-O-(alpha-D-Manp)-6'-O-(alpha-D-Manp)-(1-(9Z,12Z-nonadecadienoyl)-2-(9Z-octadecenoyl)-sn-glycero-3-phospho-1'-myo-inositol)
1368 \pm 1	Glu/Gal-Ceramide

