

Tempol attenuates urinary exosome concentration and blood pressure while altering exosomal lipid abundance during the development of salt-sensitive hypertension

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Running Title: Tempol attenuates exosome secretion and blood pressure

Supplementary Table 1. Concentration of exosomal lipids that significantly changed after Tempol treatment. Data are the average of 5 biological and 2 technical replicates.

Sample Name	Before Tempol (nM) $\pm$ SEM	After Tempol (nM) $\pm$ SEM	Fold change*
<i><u>Glycerophospholipids</u></i>			
PC(14:0/22:6)	22.61 $\pm$ 3.09	9.86 $\pm$ 2.26	0.436
PC(16:0/18:1)	141.4 $\pm$ 19.9	66.88 $\pm$ 17.4	0.473
PC(16:0/18:2)	88.01 $\pm$ 10.9	41.21 $\pm$ 16.7	0.468
PC(16:0/20:3)	6.06 $\pm$ 1.10	ND	0.309
PC(18:0/18:1)	70.04 $\pm$ 12.8	35.65 $\pm$ 6.8	0.509
PC(18:0/18:2)	103.18 $\pm$ 17.6	41.99 $\pm$ 9.6	0.407
PC(18:0/20:4)	17.36 $\pm$ 3.05	ND	0.117
PC(18:0/22:6)	7.47 $\pm$ 1.94	ND	0.209
PC(18:1/18:1)	88.81 $\pm$ 9.47	35.17 $\pm$ 7.17	0.396
PC(18:1/18:2)	27.41 $\pm$ 3.55	12.15 $\pm$ 3.5	0.443
PE(16:0/20:2)	0.96 $\pm$ 0.13	ND	0.253
PE(16:0/20:3)	2.82 $\pm$ 0.28	ND	0.188
PE(16:0/20:5)	0.39 $\pm$ 0.06	ND	0.282
PE(16:0/22:4)	0.85 $\pm$ 0.12	ND	0.130
PE(16:0/22:5)	1.81 $\pm$ 0.23	0.66 $\pm$ 0.19	0.365
PE(16:0/22:6)	3.74 $\pm$ 0.70	1.90 $\pm$ 0.42	0.507
PE(18:0/18:3)	7.19 $\pm$ 0.62	3.72 $\pm$ 0.90	0.518
PE(18:0/22:4)	2.57 $\pm$ 0.43	1.24 $\pm$ 0.34	0.481
PE(18:0/22:5)	4.12 $\pm$ 0.48	1.74 $\pm$ 0.49	0.423
PE(18:1/20:2)	1.64 $\pm$ 0.16	ND	0.140
PE(18:1/20:3)	4.92 $\pm$ 0.57	2.19 $\pm$ 0.46	0.445
PE(18:1/20:5)	0.65 $\pm$ 0.06	ND	0.169
PE(18:1/22:4)	0.52 $\pm$ 0.12	ND	0.211
PE(18:1/22:5)	2.01 $\pm$ 0.16	0.51 $\pm$ 0.20	0.253
PE(18:1/22:6)	3.75 $\pm$ 0.54	1.49 $\pm$ 0.66	0.399
PE(18:2/22:6)	1.36 $\pm$ 0.30	0.45 $\pm$ 0.20	0.334
PE(O-16:0/16:1)	3.44 $\pm$ 0.51	16.57 $\pm$ 5.5	4.823
PE(O-16:0/20:1)	1.61 $\pm$ 0.35	ND	0.122
PE(O-16:0/20:2)	0.91 $\pm$ 0.29	ND	0.122
PE(O-16:0/22:4)	2.01 $\pm$ 0.35	1.01 $\pm$ 0.23	0.504
PE(O-18:0/20:1)	4.15 $\pm$ 1.03	0.47 $\pm$ 0.29	0.113
PE(O-18:0/22:6)	75.16 $\pm$ 8.08	43.58 $\pm$ 9.7	0.580
PE(P-14:0/18:1)	1.86 $\pm$ 0.24	ND	0.059
PE(P-16:0/16:0)	2.50 $\pm$ 0.42	0.49 $\pm$ 0.26	0.194
PE(P-16:0/16:1)	2.83 $\pm$ 0.42	1.06 $\pm$ 0.37	0.372
PE(P-16:0/18:1)	67.18 $\pm$ 8.29	36.80 $\pm$ 8.01	0.548

PE(P-16:0/18:2)	20.51 ± 2.59	10.81 ± 2.25	0.527
PE(P-16:0/20:1)	5.10 ± 0.60	2.35 ± 0.48	0.460
PE(P-16:0/22:5)	5.92 ± 0.74	3.06 ± 0.59	0.517
PE(P-16:0/22:6)	25.16 ± 3.95	13.32 ± 3.13	0.529
PE(P-18:0/16:1)	2.67 ± 0.70	0.51 ± 0.39	0.192
PE(P-18:0/18:2)	49.28 ± 9.60	22.35 ± 5.33	0.454
PE(P-18:0/18:3)	1.56 ± 0.24	ND	0.071
PE(P-18:0/20:2)	1.91 ± 0.42	0.65 ± 0.24	0.341
PE(P-18:0/22:4)	4.69 ± 0.66	2.46 ± 0.51	0.524
PE(P-18:1/16:1)	2.34 ± 0.39	ND	0.094
PE(P-18:1/18:1)	47.24 ± 5.53	26.77 ± 7.23	0.567
PE(P-18:1/18:3)	1.06 ± 0.27	ND	0.266
PE(P-18:1/20:1)	12.17 ± 1.88	5.58 ± 1.38	0.459
PE(P-18:1/22:4)	1.82 ± 0.22	1.03 ± 0.25	0.566
PG(16:0/20:1)	8.40 ± 0.95	2.89 ± 0.69	0.344
PG(16:0/20:2)	1.49 ± 0.16	0.58 ± 0.12	0.390
PG(16:0/20:3)	0.28 ± 0.03	0.09 ± 0.04	0.328
PG(16:0/20:4)	0.44 ± 0.06	ND	0.163
PG(16:0/22:5)	0.15 ± 0.02	ND	0.196
PG(16:0/22:6)	0.17 ± 0.02	ND	0.173
PG(18:0/20:1)	1.31 ± 0.18	0.57 ± 0.14	0.438
PG(18:0/20:4)	0.22 ± 0.04	0.07 ± 0.03	0.331
PG(18:1/20:1)	13.56 ± 1.98	5.49 ± 1.29	0.405
PG(18:1/20:2)	2.10 ± 0.29	1.08 ± 0.25	0.514
PG(18:1/20:3)	0.50 ± 0.07	0.23 ± 0.06	0.470
PG(18:2/18:2)	10.66 ± 1.59	26.67 ± 6.71	2.503
PG(18:2/22:6)	0.07 ± 0.03	0.31 ± 0.10	4.347
PG(20:0/20:1)	0.19 ± 0.03	ND	0.159
PI(18:0/20:3)	74.93 ± 14.3	ND	0.302
PS(18:1/16:1)	1123.7 ± 245.2	475.6 ± 67.3	0.423
LPC(18:2)	8.21 ± 0.99	13.63 ± 2.11	1.659
LPE(18:0)	65.10 ± 14.93	17.82 ± 4.27	0.274
LPE(20:0)	3.73 ± 0.91	1.22 ± 0.30	0.326
<i><u>Sphingolipids</u></i>			
SM(26:1)	1.48 ± 0.27	0.77 ± 0.16	0.518
CER(18:1)	5.94 ± 1.82	1.42 ± 0.82	0.239
CER(20:1)	14.79 ± 4.71	1.92 ± 1.55	0.130
CER(22:1)	15.23 ± 4.32	2.37 ± 1.33	0.155
CER(24:1)	44.30 ± 12.01	7.12 ± 3.08	0.161
CER(26:0)	3.08 ± 0.94	0.16 ± 0.07	0.051
CER(26:1)	44.22 ± 12.03	7.07 ± 3.44	0.160
DCER(26:0)	2.23 ± 0.66	ND	0.037

DCER(26:1)	1.51 ± 0.48	ND	0.054
<i>Glycerolipids</i>			
TAG(50:2/FA18:2)	195.58 ± 38.1	18.42 ± 16.2	0.094
TAG(50:3/FA16:0)	55.60 ± 15.49	4.12 ± 2.05	0.074
TAG(51:2/FA18:1)	42.72 ± 7.04	ND	0.046
TAG(52:1/FA16:0)	82.18 ± 25.80	ND	0.024
TAG(52:2/FA16:0)	355.58 ± 73.73	83.94 ± 38.34	0.236
TAG(52:3/FA14:0)	18.02 ± 8.22	83.37 ± 13	4.626
TAG(52:3/FA16:0)	440.36 ± 101	65.89 ± 28.55	0.150
TAG(52:3/FA18:1)	425.64 ± 127.9	103.30 ± 51.5	0.243
TAG(52:3/FA18:2)	364.20 ± 75.1	83.47 ± 36.82	0.229
TAG(52:3/FA18:3)	27.90 ± 9.34	3.72 ± 1.65	0.133
TAG(52:4/FA16:0)	687.86 ± 222.15	56.96 ± 24.51	0.083
TAG(52:4/FA18:2)	1247.97 ± 477.43	62.18 ± 30.94	0.050
TAG(52:4/FA18:3)	128.80 ± 39.22	ND	0.015
TAG(52:5/FA18:2)	207.33 ± 60.18	22.86 ± 13.95	0.110
TAG(52:5/FA18:3)	154.10 ± 42.52	ND	0.066
TAG(53:4/FA18:2)	24.65 ± 6.55	ND	0.079
TAG(54:1/FA18:0)	52.72 ± 22.09	ND	0.037
TAG(54:3/FA18:1)	721.18 ± 161.1	118.07 ± 20.8	0.164
TAG(54:4/FA18:0)	291.06 ± 72.95	11.87 ± 9.72	0.041
TAG(54:4/FA18:1)	952.54 ± 260.8	88.42 ± 19.73	0.093
TAG(54:4/FA18:2)	740.95 ± 182.6	89.34 ± 29.76	0.121
TAG(54:4/FA18:3)	64.80 ± 16.89	ND	0.030
TAG(54:5/FA18:0)	57.25 ± 17.15	ND	0.034
TAG(54:5/FA18:1)	878.28 ± 210.74	23.71 ± 21.56	0.027
TAG(54:5/FA18:2)	1403.30 ± 396.3	113.71 ± 22.8	0.081
TAG(54:5/FA18:3)	150.53 ± 35.98	ND	0.046
TAG(54:6/FA18:1)	248.26 ± 64.30	ND	0.049
TAG(54:6/FA18:2)	1635.73 ± 519.3	102.31 ± 33.9	0.063
TAG(54:6/FA18:3)	121.72 ± 33.85	ND	0.016
TAG(54:7/FA18:2)	389.90 ± 124.5	ND	0.046
TAG(54:7/FA18:3)	92.57 ± 39.32	ND	0.021
TAG(56:4/FA18:2)	55.24 ± 17.68	ND	0.035
DAG(16:1/20:2)	21.71 ± 4.13	57.39 ± 13.72	2.644
DAG(18:2/20:5)	58.12 ± 7.99	10.57 ± 3.03	0.182
MAG(22:2)	71.89 ± 54.23	19.50 ± 5.84	0.271

*, Fold change in the concentration of lipid after Tempol treatment.
ND, Not Detected.