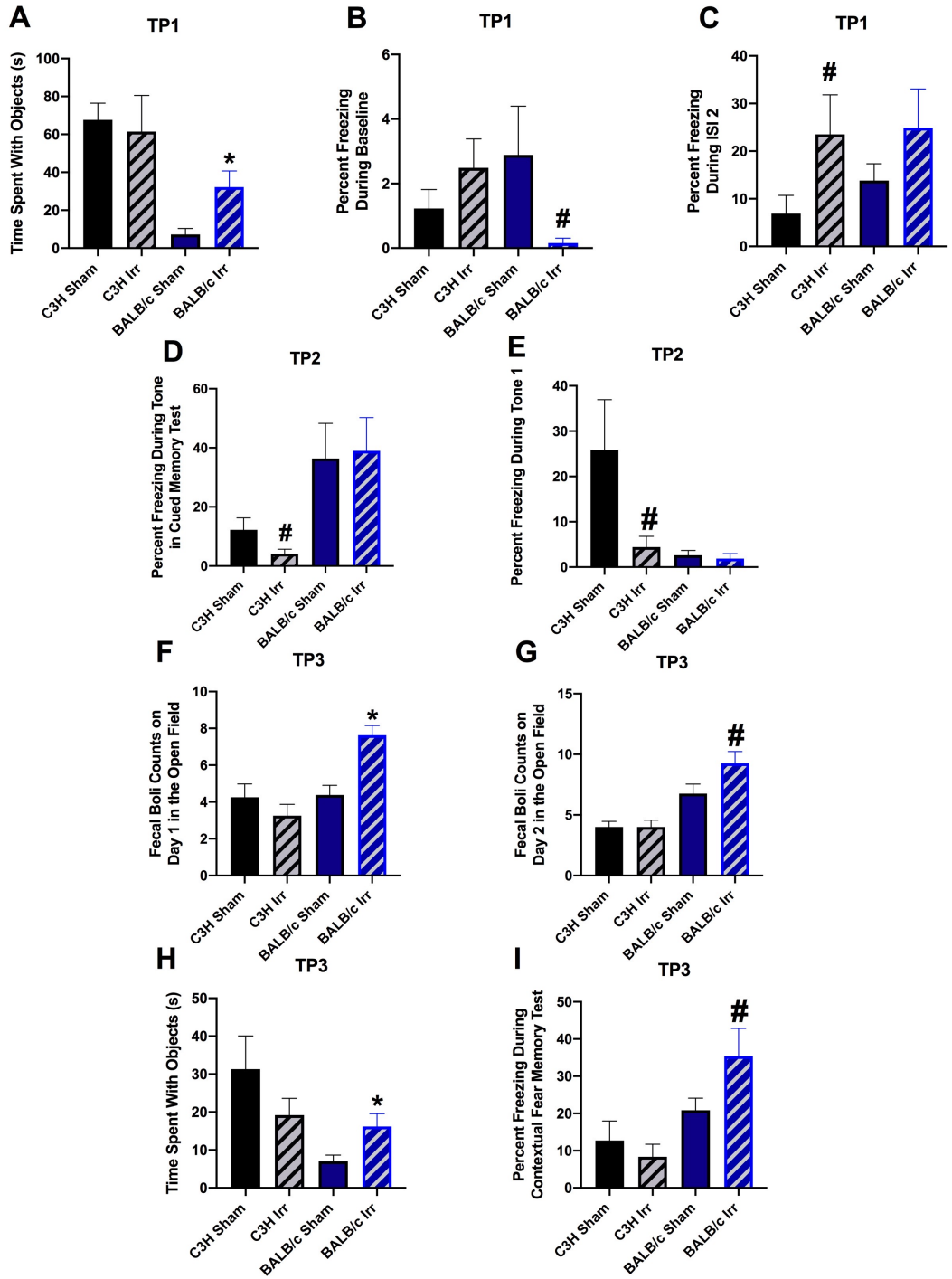
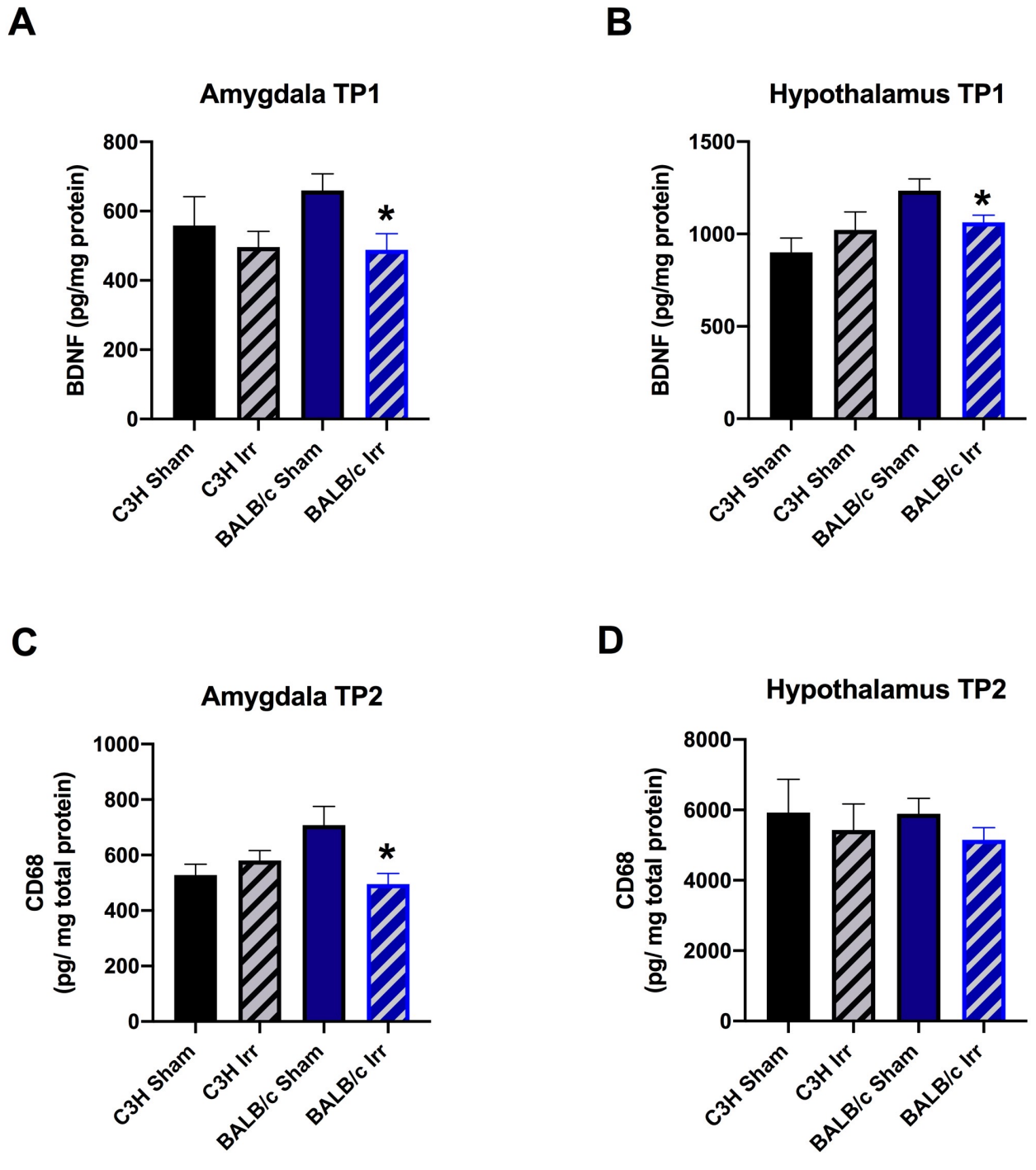
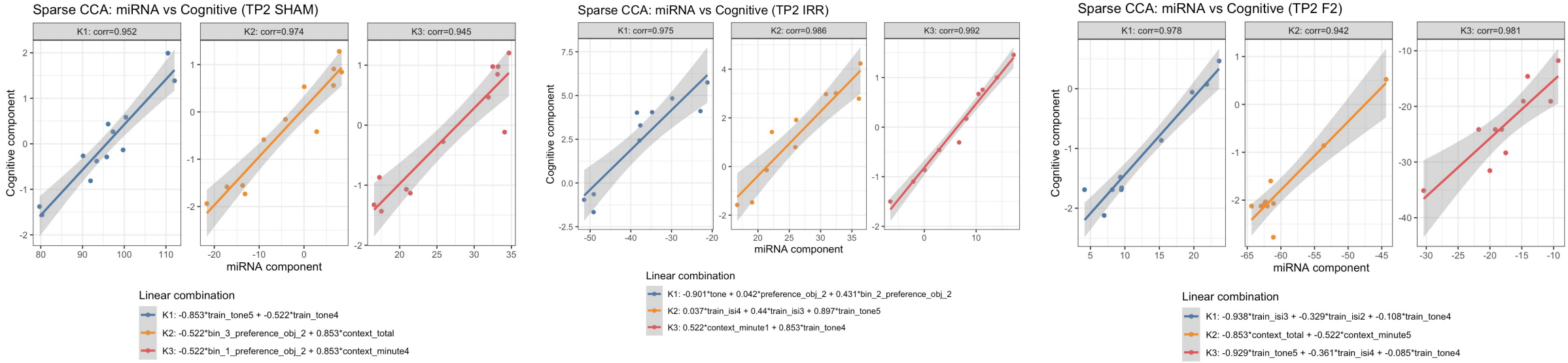
Suppl Fig 1

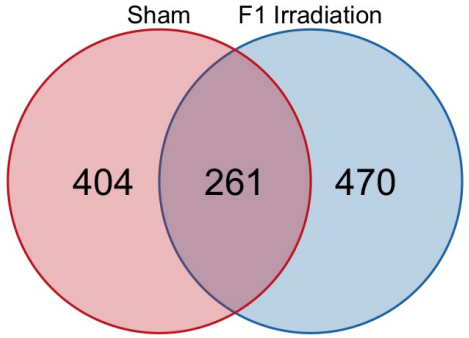

A
TP1
Time Spent With Objects (s)
100
80
60
40
20
0
*
C3H Sham
C3H Irr
BALB/c Sham
BALB/c Irr
B
TP1
Percent Freezing During Baseline
6
4
2
0
#
C3H Sham
C3H Irr
BALB/c Sham
BALB/c Irr
C
TP1
Percent Freezing During ISI 2
40
30
20
10
0
#
C3H Sham
C3H Irr
BALB/c Sham
BALB/c Irr
D
TP2
Percent Freezing During Tone in Cued Memory Test
60
40
20
0
#
C3H Sham
C3H Irr
BALB/c Sham
BALB/c Irr
E
TP2
Percent Freezing During Tone 1
40
30
20
10
0
#
C3H Sham
C3H Irr
BALB/c Sham
BALB/c Irr
F
TP3
Fecal Boli Counts on Day 1 in the Open Field
10
8
6
4
2
0
*
C3H Sham
C3H Irr
BALB/c Sham
BALB/c Irr
G
TP3
Fecal Boli Counts on Day 2 in the Open Field
15
10
5
0
#
C3H Sham
C3H Irr
BALB/c Sham
BALB/c Irr
H
TP3
Time Spent With Objects (s)
50
40
30
20
10
0
*
C3H Sham
C3H Irr
BALB/c Sham
BALB/c Irr
I
TP3
Percent Freezing During Contextual Fear Memory Test
50
40
30
20
10
0
#
C3H Sham
C3H Irr
BALB/c Sham
BALB/c Irr

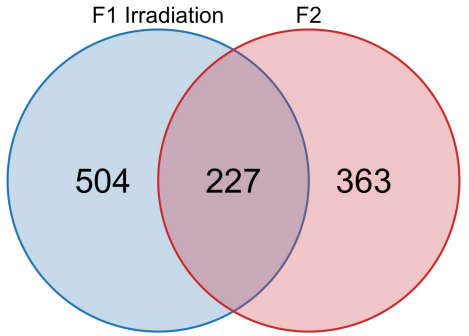
Suppl Fig 2


A
Amygdala TP1
BDNF (pg/mg protein)
800
600
400
200
0
*
C3H Sham
C3H Irr
BALB/c Sham
BALB/c Irr
B
Hypothalamus TP1
BDNF (pg/mg protein)
1500
1000
500
0
*
C3H Sham
C3H Sham
BALB/c Sham
BALB/c Irr
C
Amygdala TP2
CD68
(pg/ mg total protein)
1000
800
600
400
200
0
*
C3H Sham
C3H Irr
BALB/c Sham
BALB/c Irr
D
Hypothalamus TP2
CD68
(pg/ mg total protein)
8000
6000
4000
2000
0
C3H Sham
C3H Irr
BALB/c Sham
BALB/c Irr

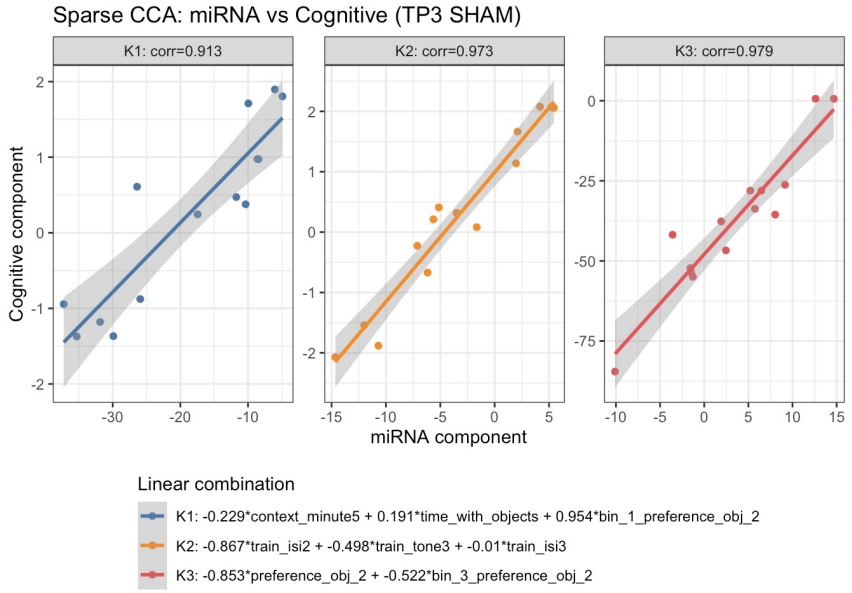
Suppl Fig 3 Cognitive vs miRNA – TP2

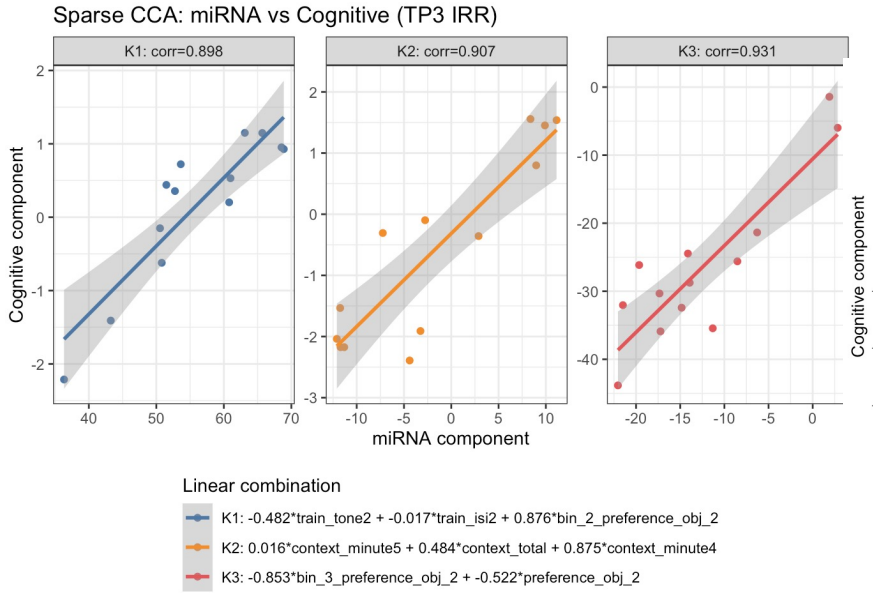


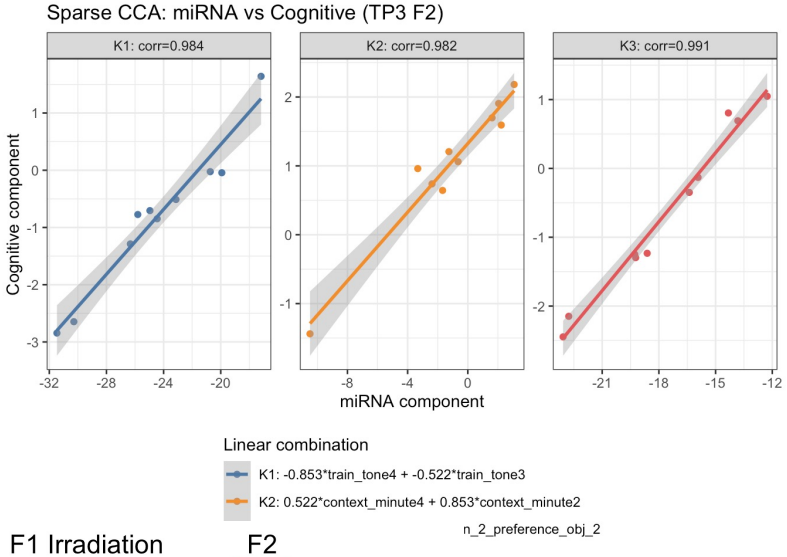


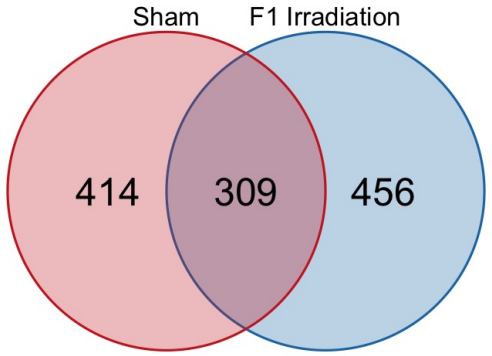


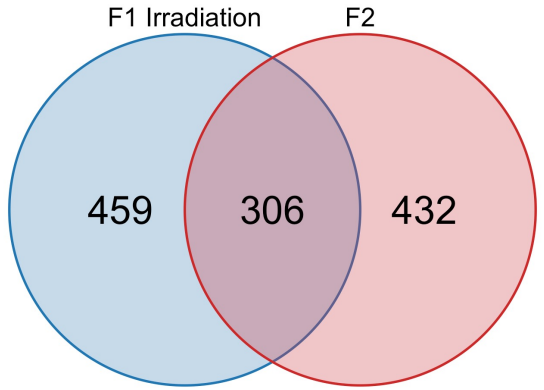
Suppl Fig 4 - Cognitive vs miRNA – TP3





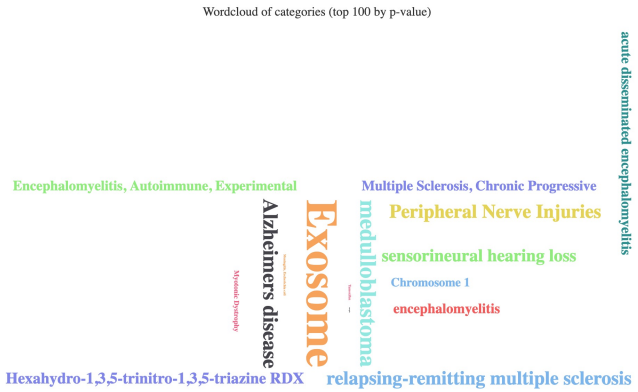




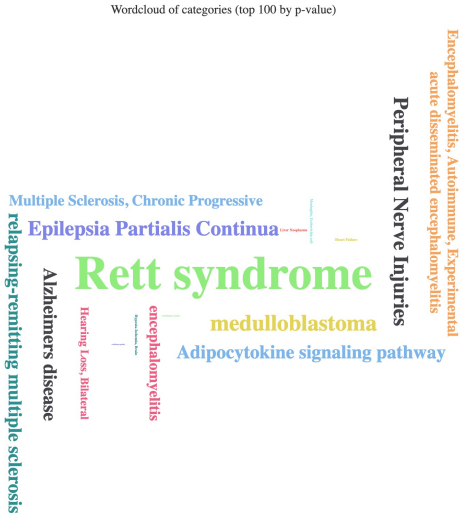


Suppl Fig 5 - Cognitive vs miRNA – TP1

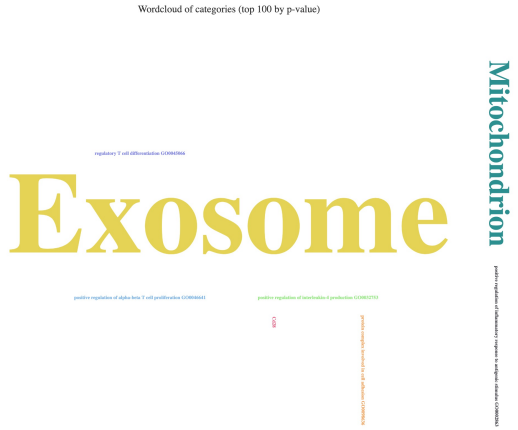
F1 Sham



F1 IRR

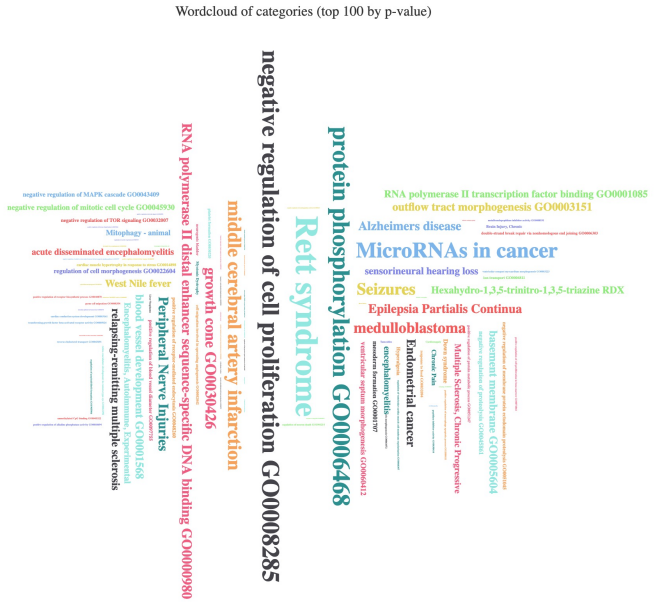


F2 IRR

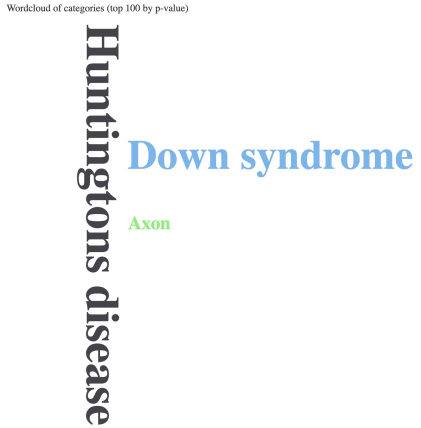


Suppl Fig 6 Cognitive vs miRNA – TP2

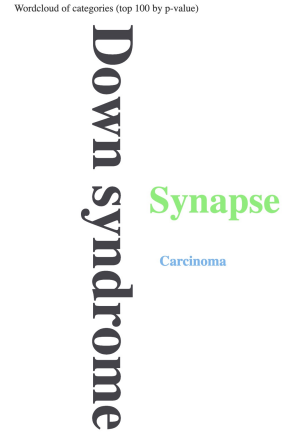
F1 Sham



F1 IRR



F2 IRR

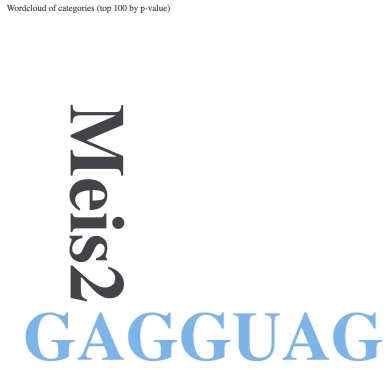


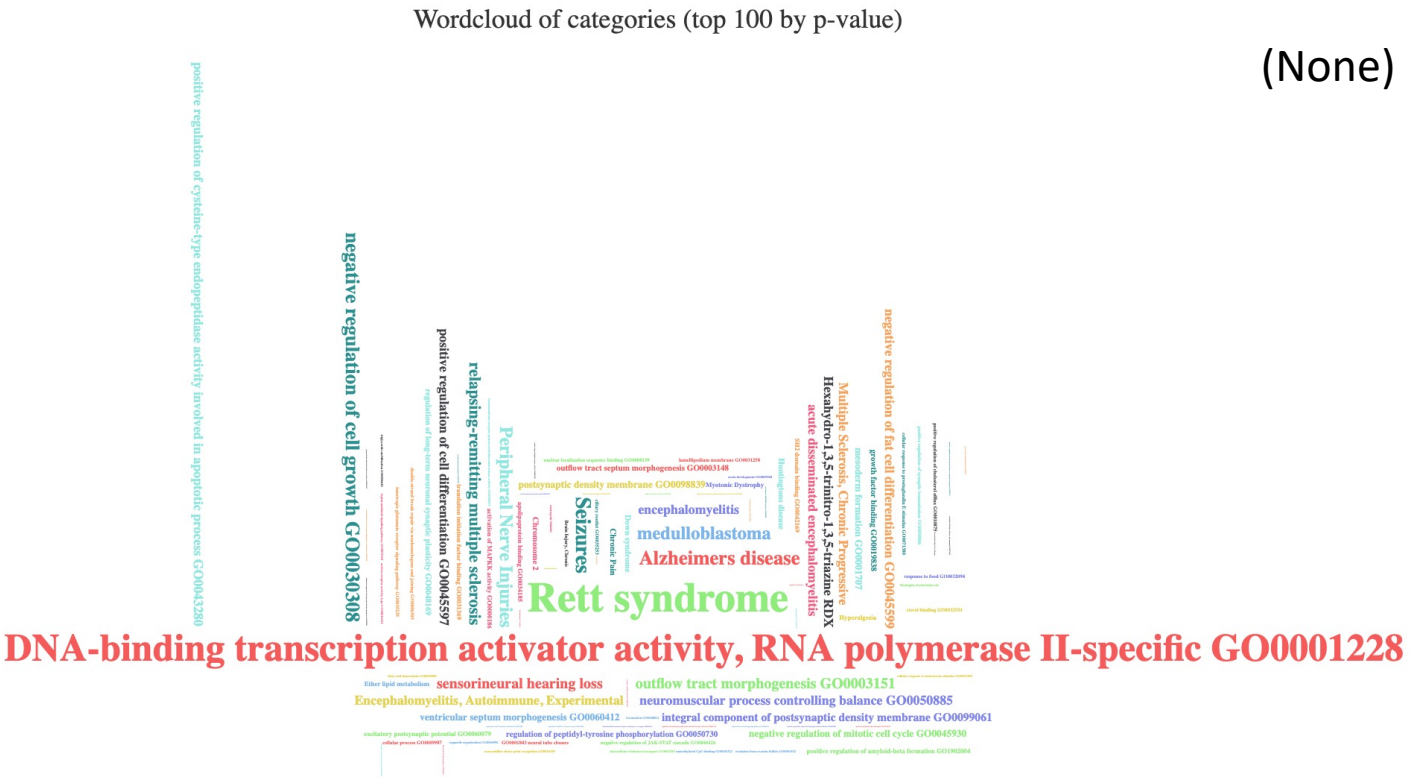
Suppl Fig 7 - Cognitive vs miRNA – TP3

F1 Sham

F1 IRR

F2 IRR

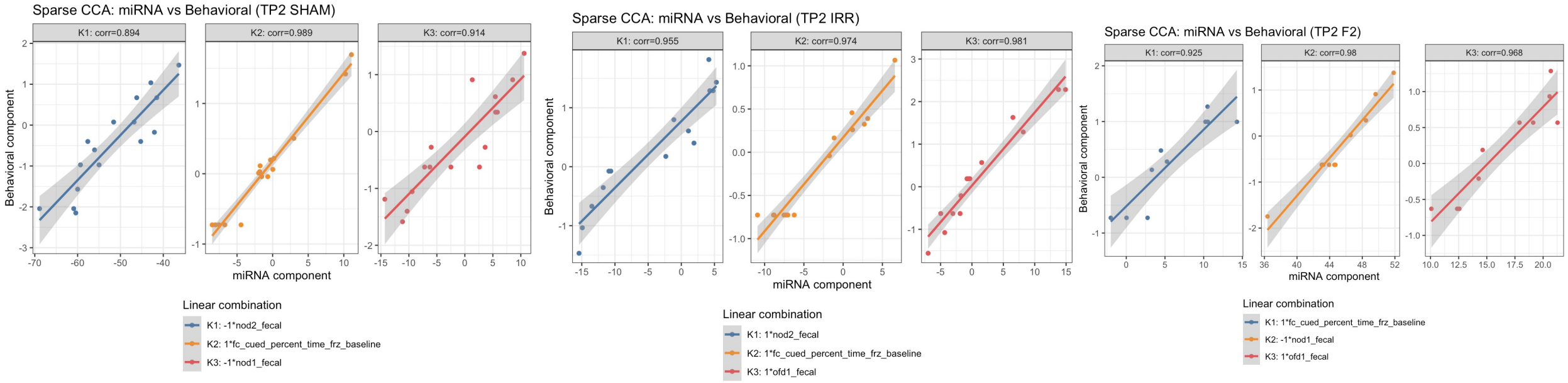


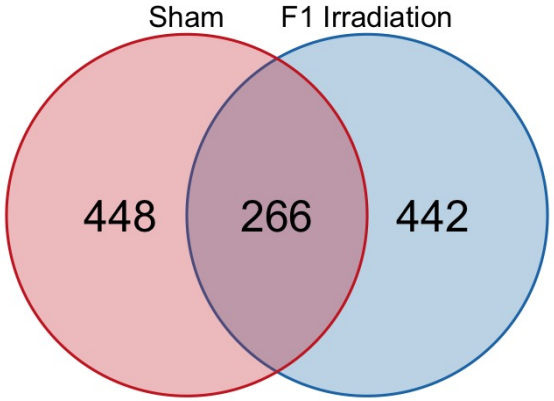


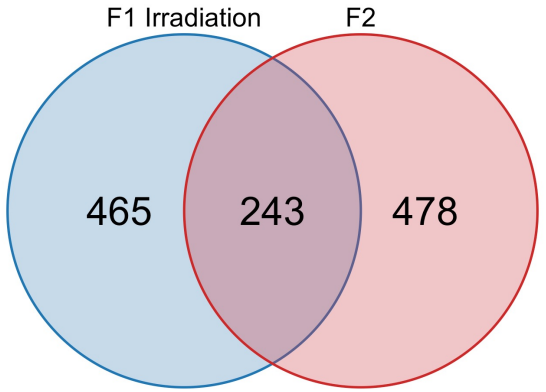
F2 IRR

(None)

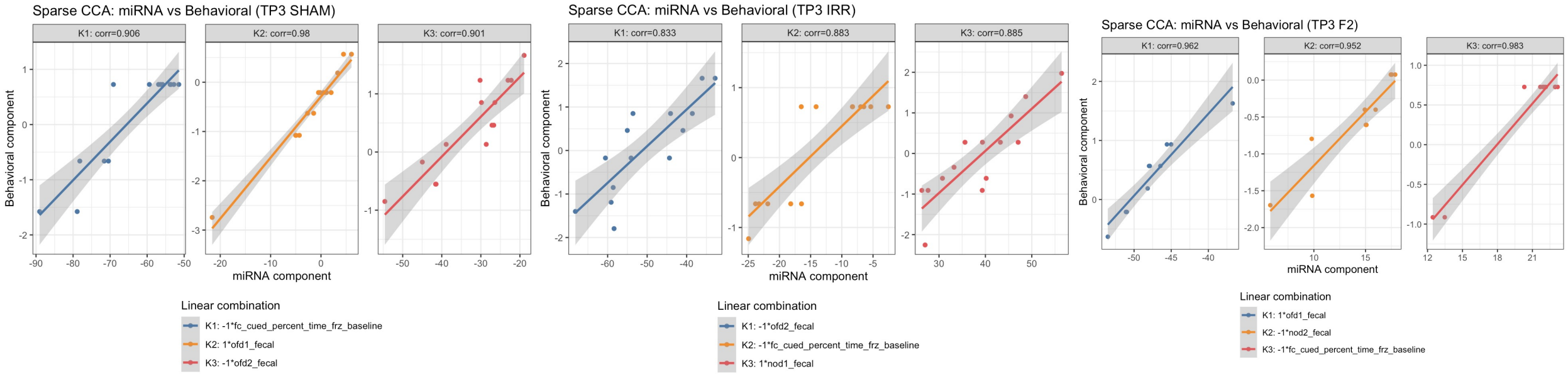
Suppl Fig 8 – Behavioral vs miRNA – TP2

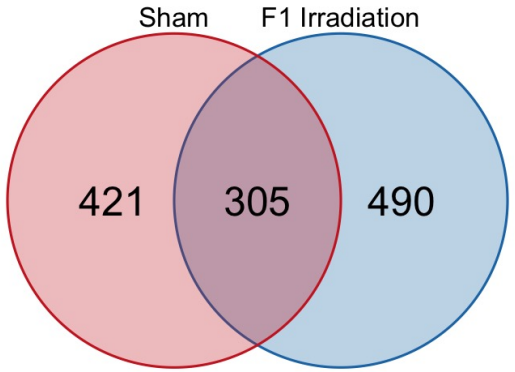


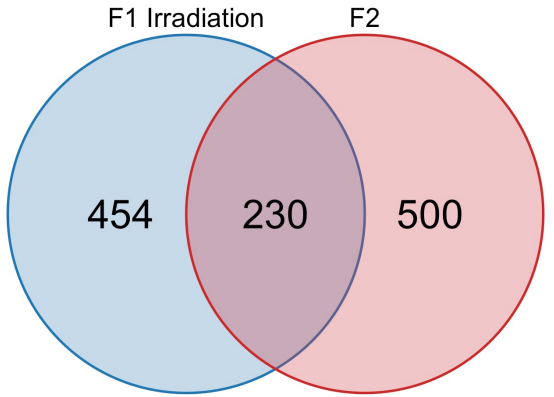




Suppl Fig 9 - Behavioral vs miRNA – TP3

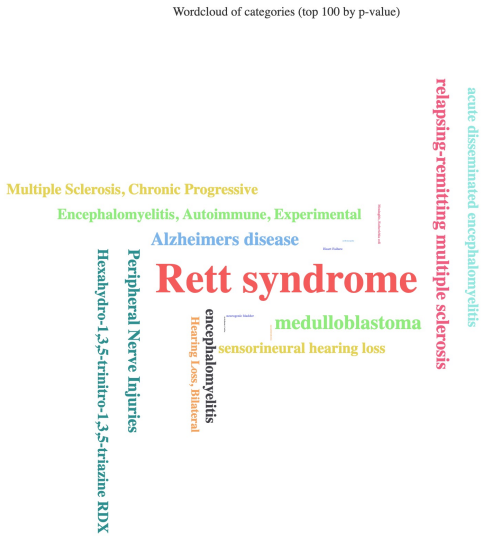




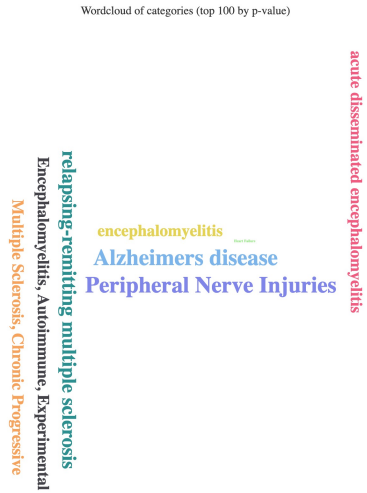


Suppl Fig 10 Behavioral vs miRNA – TP1

F1 Sham



F1 IRR



F2 IRR

Suppl Fig 11 – Behavioral vs miRNA – TP2

F1 Sham

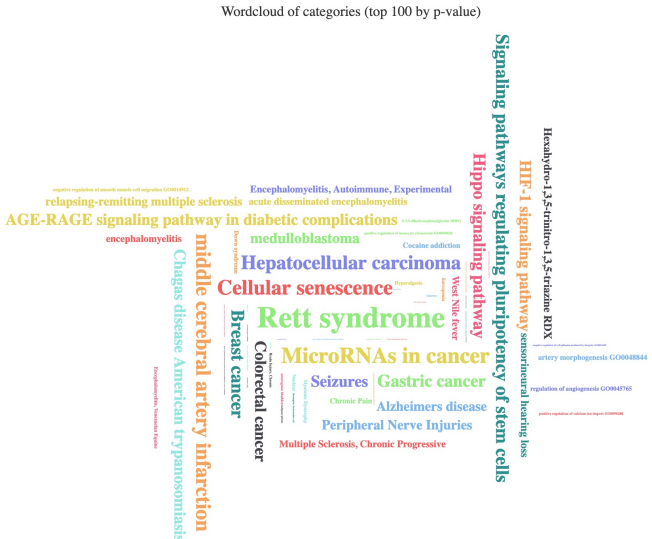
(None)

F1 IRR

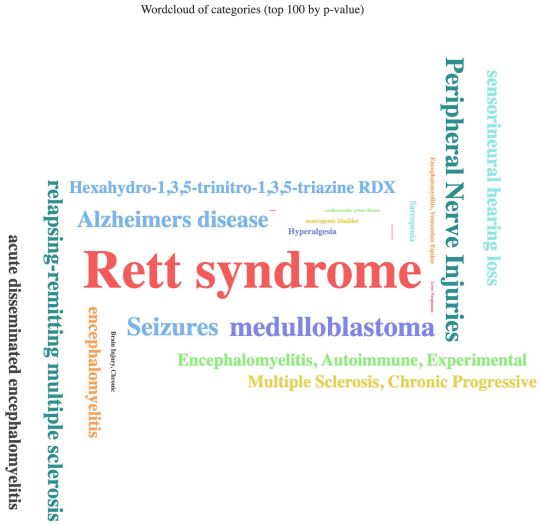
F2 IRR

Suppl Fig 12 - Behavioral vs miRNA – TP3

F1 Sham



F1 IRR

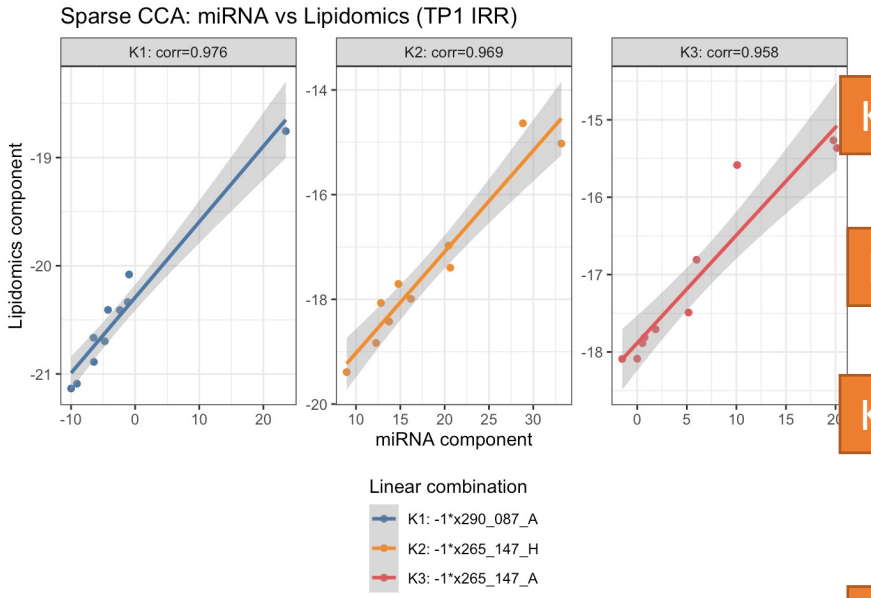


F2 IRR

5-aminoimidazole-4-carboxamide-1-β-d-ribofuranoside AICAR

Suppl Fig 13 Lipidomics vs miRNA – TP1

LIPIDS



K1

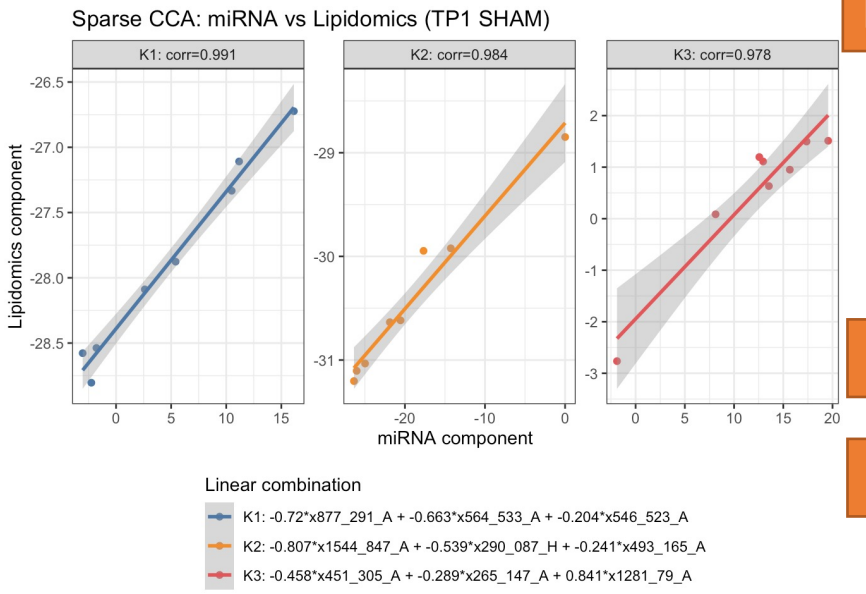
290.087 A = fatty acid which can be of multiple carbon length and/or number of double bonds

K2

265.147 H = Micropine (sphingoid base analogue)

K3

265.147 A = Micropine (sphingoid base analogue)



K1

877.291 A = no identification,
564.533 A = three biological possibilities: a large 34-35 carbon oxidized unsaturated fatty acid, an oxidized diacylglycerol or a branched fatty acid esters of hydroxy fatty acids (FAHFA 18:1 18:0, Delta of 0.0212) are endogenous lipids found in adipose tissue and serum that correlate with insulin sensitivity and are reduced in insulin-resistant humans,
546.523 A = Most-likely a large 34-35 carbon oxidized unsaturated fatty acid or an oxidized diacylglycerol

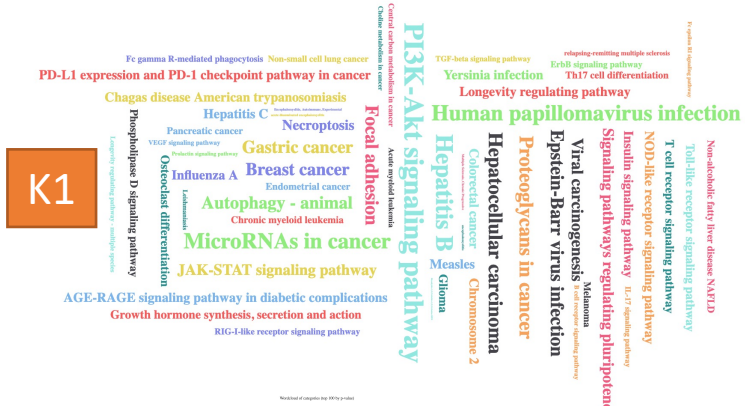
K2

1544.847 A = no ID, 290.087 H = fatty acid which can be of multiple carbon length and/or number of double bonds, 493.164 A = no ID

K3

451.305 A = matched mass 451.2699, Delta 0.0351, lysophosphatidylethanolamine (16:0) or Lysophosphatidylcholine (O-14:1) delta 0.0013. LPC is a signal of mitochondrial stress. Both compounds are derived from their precursors by the enzymatic action of phospholipase A2 , 265.147A = Micropine (sphingoid base analogue) , 1281.790 A = No ID

miRNA enrichment



K1

K2

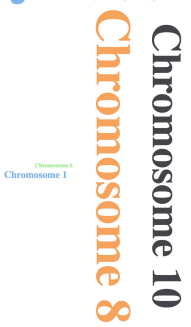
Chromosome X

K3 (None)

K1 (None)

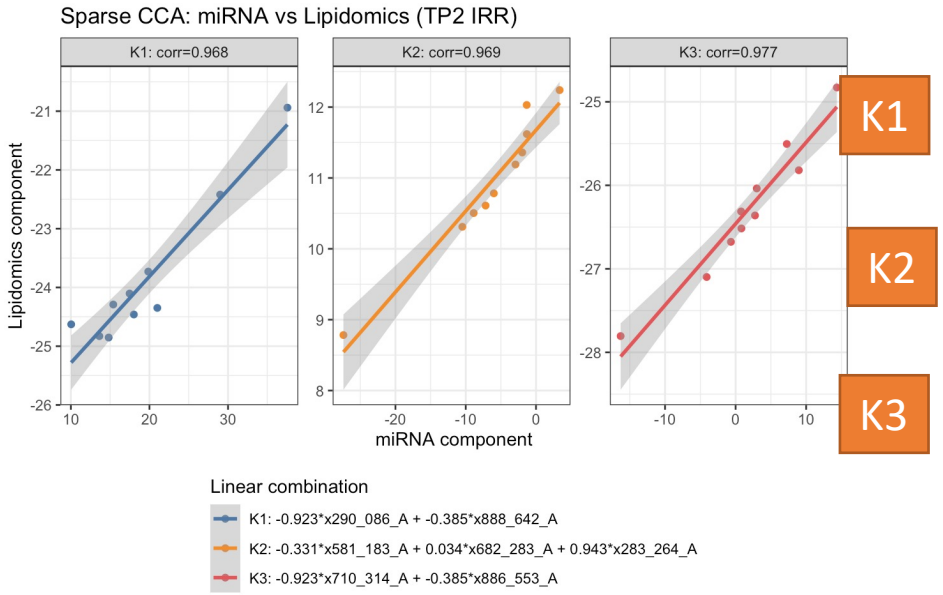
K2

K3



Suppl Fig 14 Lipidomics vs miRNA – TP2

LIPIDS



K1

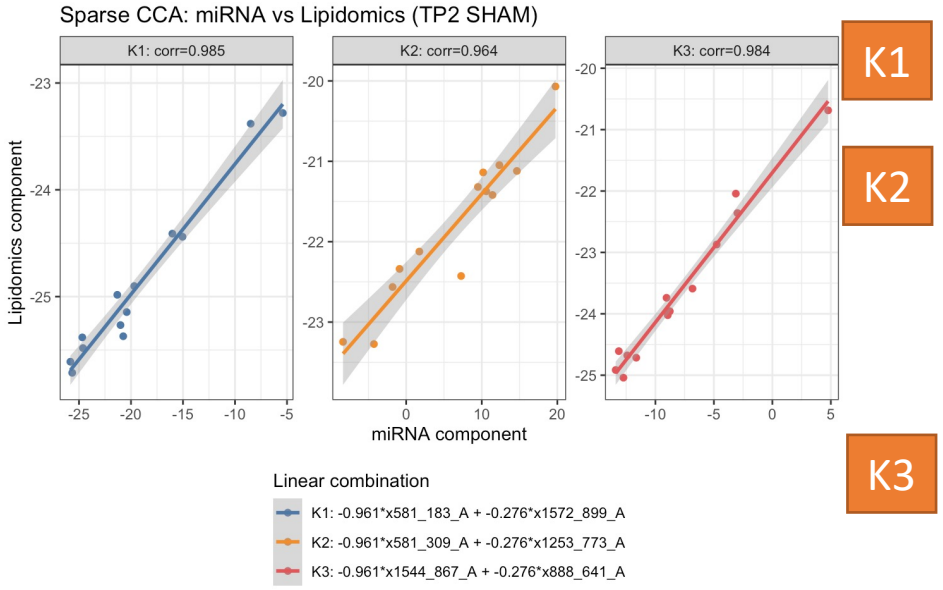
290.086 A = fatty acid which can be of multiple carbon length and/or number of double bonds , 888.642 A = Isobars for unsaturated Phosphatidylinositol with 38 carbons in its tail or an unsaturated triacylglycerol (TG) with 55 carbons composing its three fatty acid tails.

K2

581.183 A = no ID , 682.283 A = no ID, 283.264 A = n-acylethanolamine (15:1), (induction of inflammation, precursor of eicosanoids or Delta 0.0235, sphingolipid (m18:1), sphingolipid base analog

K3

710.314 A = isobars corresponding to either an oxidized Phosphatidylglycerol or oxidized Phosphatidylinositol, 886.553 A = Most hits are for an unsaturated Phosphatidylinositol with 38 carbons in its tail



K1

581.183 A = no ID, 1572.899 A = several possible isomers of a sulfated globoside

K2

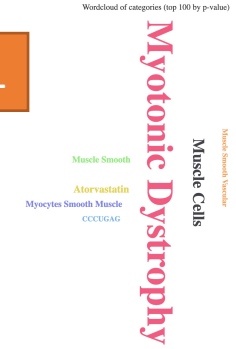
581.309 A = either lysophosphatidylethanolamine (26:6) delta 0.0391 or Lysophosphatidylserine (22:0) delta 0.0603. Both compounds are derived from their precursors by the enzymatic action of phospholipase A2. The lysophospholipids lead to increase eicosanoid production (leukotrienes and prostaglandins) , 1253.773 A = no ID

K3

1544.867 A = possibly Ganglioside SB1a (t18:0/26:0), matched mass1544.83069, another sulfated globoside.
888.641 A = Isobars for unsaturated Phosphatidylinositol with 38 carbons in its tail or an unsaturated triacylglycerol (TG) with 55 carbons composing its three fatty acid tails.

miRNA enrichment

K1

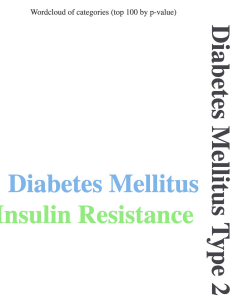


K2

Glrx2

K3

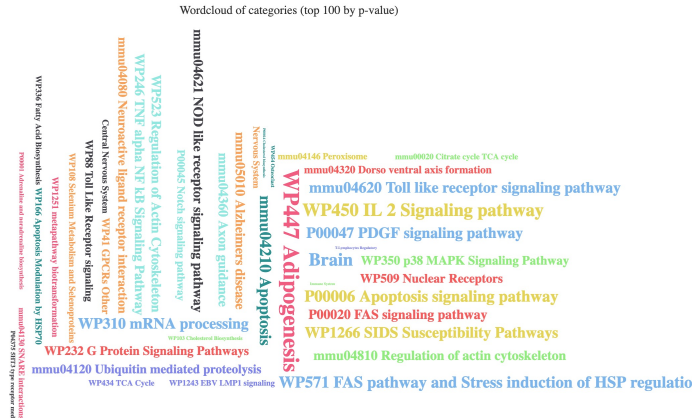
(None)



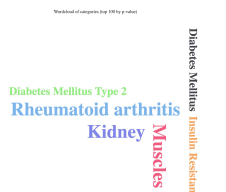
K1

Diabetes Mellitus
Insulin Resistance

K2

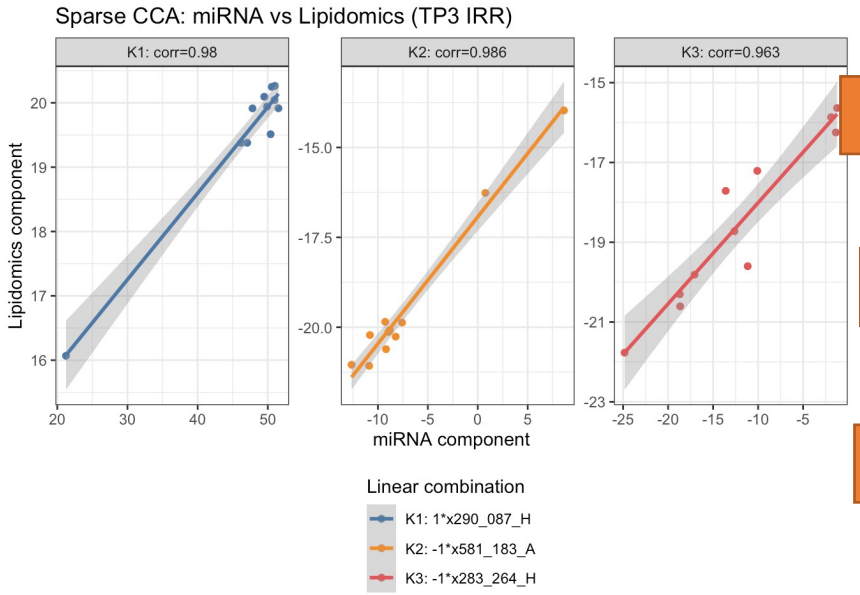


K3



Suppl Fig 15 Lipidomics vs miRNA – TP3

LIPIDS



K1

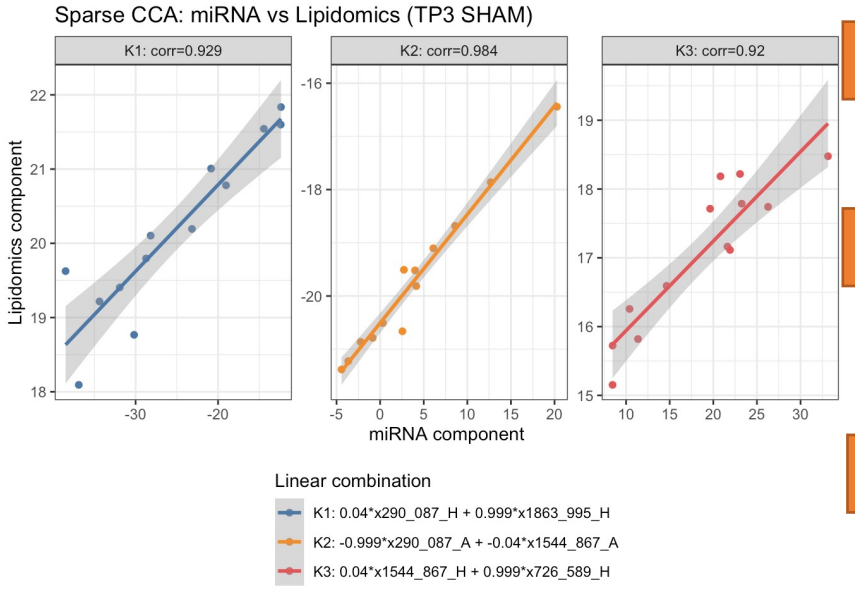
290.087 H = a fatty acid which can be of multiple carbon length and/or number of double bonds

K2

581.183 A = no ID

K3

283.264 H = n-acylethanolamine (15:1), (induction of inflammation, precursor of eicosanoids or Delta 0.0235, sphingolipid (m18:1), sphingolipid base analog



K1

290.087 H = fatty acid which can be of multiple carbon length and/or number of double bonds.
1863.995 H = no ID

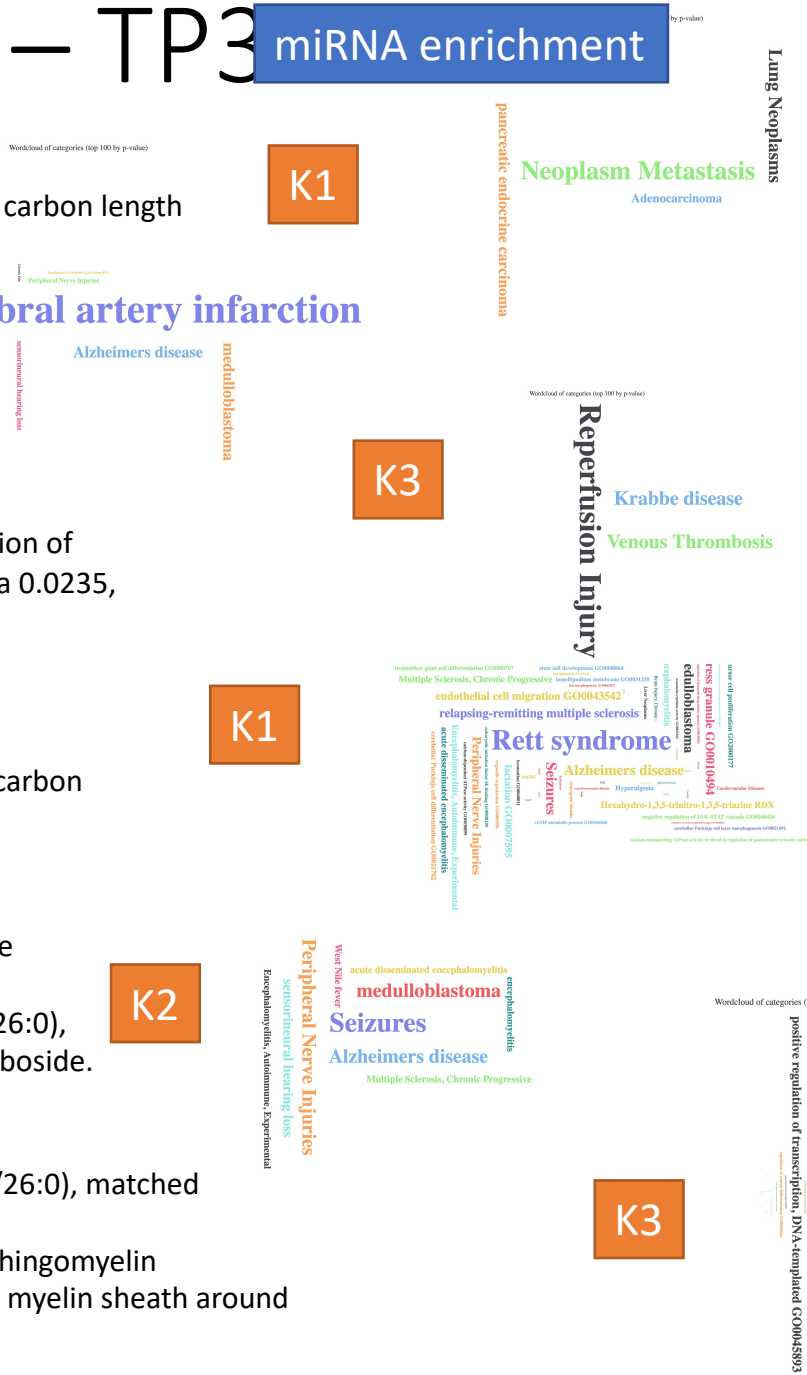
K2

290.087 H = = fatty acid which can be of multiple carbon length and/or number of double bonds
1544.867 A = possibly Ganglioside SB1a (t18:0/26:0), matched mass1544.83069, another sulfated globoside.

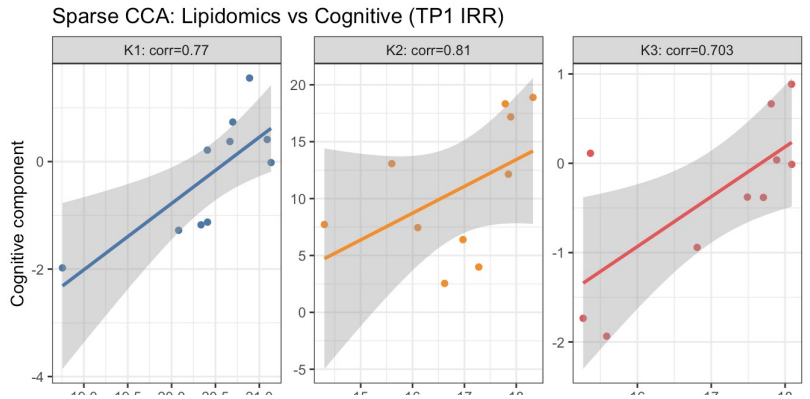
K3

1544.867 A = possibly Ganglioside SB1a (t18:0/26:0), matched mass1544.83069, another sulfated globoside.
726.589 H = isobars corresponding to either sphingomyelin (d18:2/18:1, delta 0.0214) which makes up the myelin sheath around neurons, diacylglycerol or phosphatidic acid

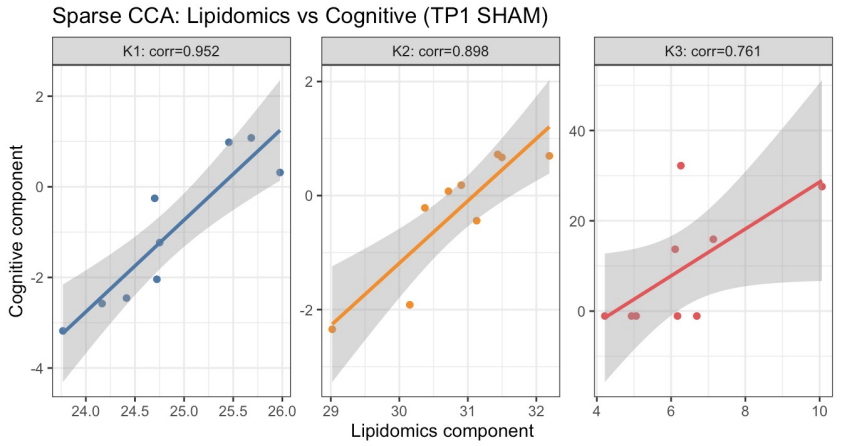
miRNA enrichment



Suppl Fig 16 Cognitive vs lipidomics – TP1



K	form_out	form_lipid	corr
V1	K1: -0.959*bin_2_preference_obj_2* + -0.243tone + -0.139*context_minute4* + -0.033context_minute5	1 x290_087_A	0.7697754
V2	K2: -0.972*train_tone1* + 0.054train_isi3 + 0.068*train_tone5* + 0.077train_tone4 + 0.204*train_isi4	1 x290_086_H	0.8096856
V3	K3: -0.974*bin_1_preference_obj_2* + -0.076train_tone2 + -0.009*train_tone5* + 0.021context_minute1 + 0.122*context_minute4* + 0.173train_tone1	1 x265_147_A	0.7025606



K	form_out	form_lipid	corr
V1	K1: -0.959*bin_2_preference_obj_2* + -0.243tone + -0.139*context_minute4* + -0.033context_minute5	1 x290_087_A	0.7697754
V2	K2: -0.972*train_tone1* + 0.054train_isi3 + 0.068*train_tone5* + 0.077train_tone4 + 0.204*train_isi4	1 x290_086_H	0.8096856
V3	K3: -0.974*bin_1_preference_obj_2* + -0.076train_tone2 + -0.009*train_tone5* + 0.021context_minute1 + 0.122*context_minute4* + 0.173train_tone1	1 x265_147_A	0.7025606

LIPIDS

K1

290.087 A = a fatty acid which can be of multiple carbon length and/or number of double bonds

K2

290.086 H = a fatty acid which can be of multiple carbon length and/or number of double bonds

K3

265.147 A = Micropine (sphingoid base analogue)

K1

451.305 A = lysophosphatidylethanolamine (16:0) or Lysophosphatidylcholine (O-14:1) delta 0.0013. LPC is a signal of mitochondrial stress. Both compounds are derived from their precursors by the enzymatic action of phospholipase A2
1281.79 A = no ID
1544.847 A = possibly Ganglioside SB1a (t18:0/26:0)
290.087 H = a fatty acid which can be of multiple carbon length and/or number of double bonds

K2

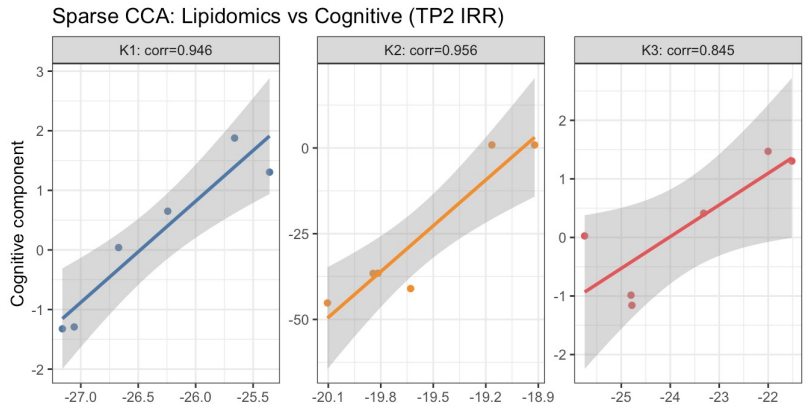
1544.847 A = possibly Ganglioside SB1a (t18:0/26:0)
419.255 A = N-Arachidonoyl Taurine (NAT (18:0)), an arachidonyl aminoacid, N-Arachidonoyl Taurine is increased after the administration of cannabinoid agonists
886.546 A = Most hits are for an unsaturated Phosphatidylinositol with 38 carbons in its tail

K3

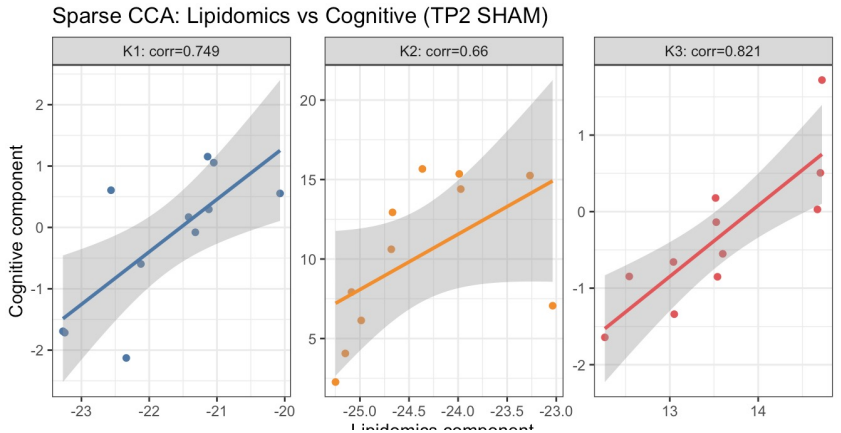
493.165 A = no ID, 581.180 A = no ID
708.574 A = Several isobaric possibilities. The largest number of hits corresponds to a Phosphatidylglycerol (PG) of various carbon chain lengths totaling 31 carbons, next would be a diacylglycerol (20:0/22:0 or 21:0/21:0)
1544.849 A = possibly Ganglioside SB1a (t18:0/26:0)

Suppl Fig 17 Cognitive vs lipidomics – TP2

LIPIDS



K	form_out	form_lipid	corr
V1	K1: 0.164*context_minute5* + *0.259*context_minute3 + 0.952*context_total	-0.385 x291_091_A + -0.923 x581_184_A	0.9456560
V2	K2: -0.853*bin_2_preference_obj_2* + *-0.522*preference_obj_2	-0.971 x290_088_A + -0.153 x581_183_A + 0.184 x886_553_A	0.9557277
V3	K3: -0.227*bin_3_preference_obj_2* + *0.193*train_tone3 + 0.955*train_isi2	-0.385 x1544_867_A + -0.923 x835_283_A	0.8446590



K	form_out	form_lipid	corr
V1	K1: 0.067*context_minute2* + *0.39*context_minute3 + 0.919*context_total	-0.276 x1253_773_A + -0.961 x581_309_A	0.7493977
V2	K2: 0.191*train_isi4* + *0.23*context_minute1 + 0.954*context_minute2	-0.276 x291_091_A + -0.961 x581_183_A	0.6596294
V3	K3: 0.094*context_minute4* + *0.146*tone + 0.165*context_minute5* + *0.97*train_tone3	0.961 x290_087_A + -0.276 x419_256_A	0.8207900

K1

291.091 A = no ID
581.184 A = no ID

K2

290.088 H = a fatty acid which can be of multiple carbon length and/or number of double bonds
581.183 A = no ID

K3

1544.867 A = possibly Ganglioside SB1a (t18:0/26:0)
835.283 A = CDP-1-hexanoyl-2-(6Z,9Z,12Zoctadecatrienoyl)-sn-glycerol CP1 (cytodine diphosphate lipid), I cannot find any biological activity

K1

1253.773 A = no ID
581.309 A = either lysophosphatidylethanolamine (26:6) delta 0.0391 or Lysophosphatidylserine (22:0) delta 0.0603. Both compounds are derived from their precursors by the enzymatic action of phospholipase A2. The lysophospholipids lead to increase eicosanoid production (leukotrienes and prostaglandins)

K2

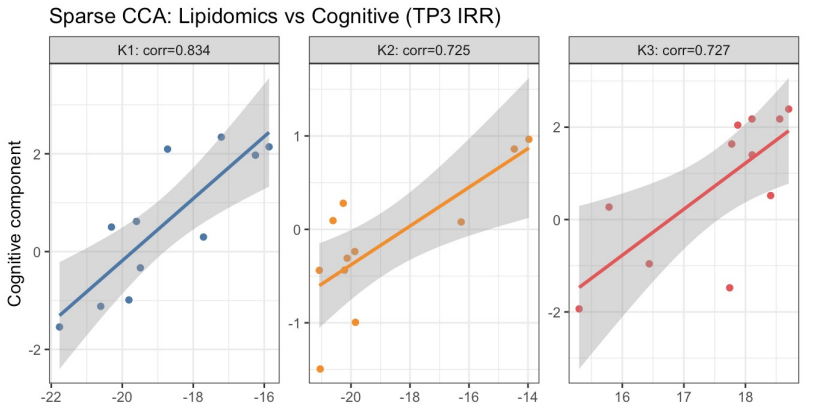
291.091 A = no ID
581.183 A = no ID

K3

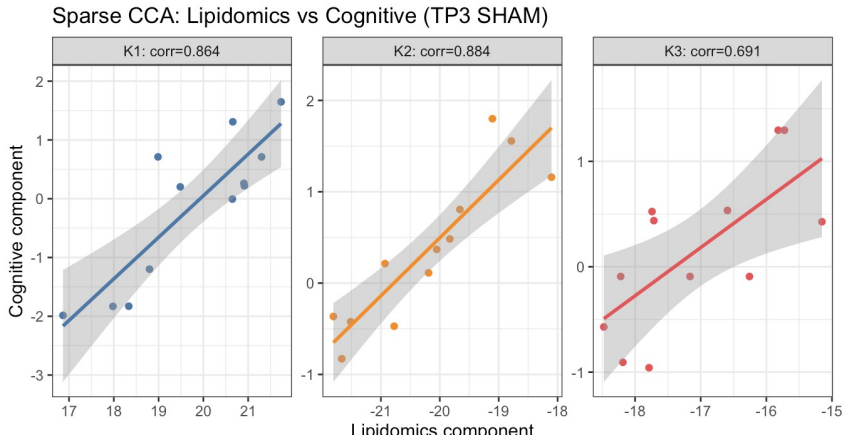
290.087 A = a fatty acid which can be of multiple carbon length and/or number of double bonds
419.256 A = either an acyl carnitine (18:4) matched mass 419.3036, delta 0.0486 or an acyl taurine (20:0) matched mass of 419.3069, delta 0.0519

Suppl Fig 18 Cognitive vs lipidomics – TP3

LIPIDS



K	form_out	form_lipid	corr
V1	K1: -0.896*context_minute5* + *-0.442*context_total + -0.036*context_minute3	-1 x283_264_H	0.8338296
V2	K2: -0.081*train_tone3* + *-0.021*train_isi1 + 0.035*bin_1_preference_obj_2* + *0.283*bin_2_preference_obj_2 + 0.955*time_with_objects	-1 x581_183_A	0.7248504
V3	K3: -0.879*context_minute1* + *-0.476*context_total + -0.019*context_minute4	1 x888_641_H	0.7268940



K	form_out	form_lipid	corr
V1	K1: 0.156*context_minute2* + *0.268*train_isi3 + 0.951*context_minute1	0.04 x290_087_A + 0.999 x581_183_A	0.8644827
V2	K2: -0.853*train_isi1* + *-0.522*train_isi2	-0.04 x1604_89_H + -0.999 x1863_995_H	0.8844297
V3	K3: -0.853*train_tone1* + *0.522*bin_2_preference_obj_2	-0.04 x1544_867_H + -0.999 x726_589_H	0.6908343

K1

283.264 H = Delta0.0129, n-acylethanolamine (15:1), (induction of inflammation, precursor of eicosanoids or Delta 0.0235, sphingolipid (m18:1), sphingolipid base analog

K2

581.183 A = no ID

K3

888.641 H = Isobars for unsaturated Phosphatidylinositol with 38 carbons in its tail or an unsaturated triacylglycerol (TG) with 55 carbons composing its three fatty acid tails.

K1

290.087 A = a fatty acid which can be of multiple carbon length and/or number of double bonds
581.183 A = no ID

K2

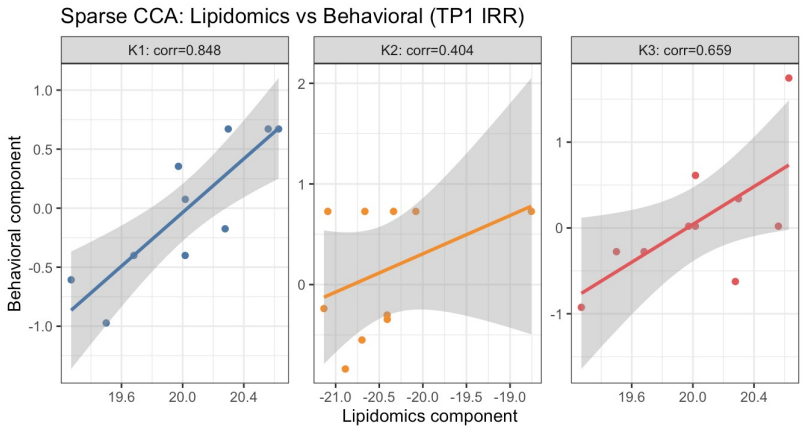
1604.89 H = several possible isomers of a sulfated globoside
1863.995 H = no ID

K3

1544.867 H = possibly Ganglioside SB1a (t18:0/26:0)
726.589 H = isobars corresponding to either sphingomyelin (d18:2/18:1, delta 0.0214) which makes up the myelin sheath around neurons, diacylglycerol or phosphatidic acid

Suppl Fig 19 Behavioral vs lipidomics – TP1

LIPIDS

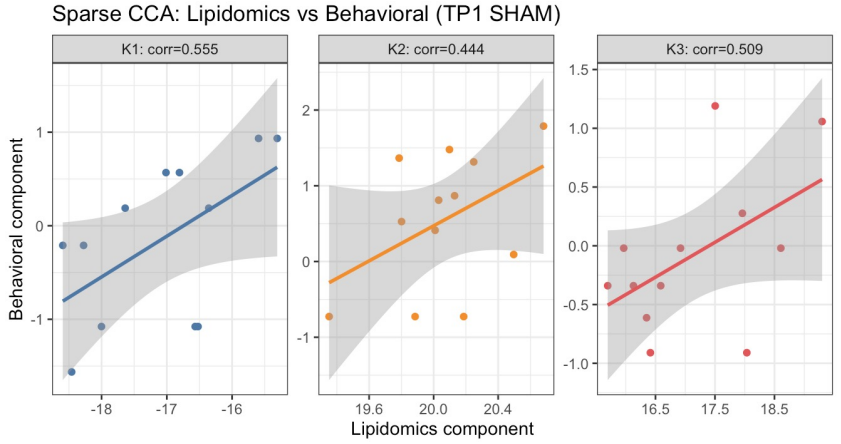


K	form_out	form_lipid	corr
V1	K1: -1*nod2_fecal	1 x290_087_H	0.8482406
V2	K2: -1*fc_cued_percent_time_frz_baseline	-1 x290_087_A	0.4035642
V3	K3: -1*nod1_fecal	1 x290_087_H	0.6593617

K1 290.087 H = a fatty acid which can be of multiple carbon length and/or number of double bonds

K2 290.087 A = a fatty acid which can be of multiple carbon length and/or number of double bonds

K3 290.087 H = a fatty acid which can be of multiple carbon length and/or number of double bonds



K	form_out	form_lipid	corr
V1	K1: 1*ofd1_fecal	-1 x290_086_H	0.5554043
V2	K2: 1*fc_cued_percent_time_frz_baseline	1 x290_087_H	0.4440140
V3	K3: 1*nod1_fecal	1 x265_147_A	0.5085519

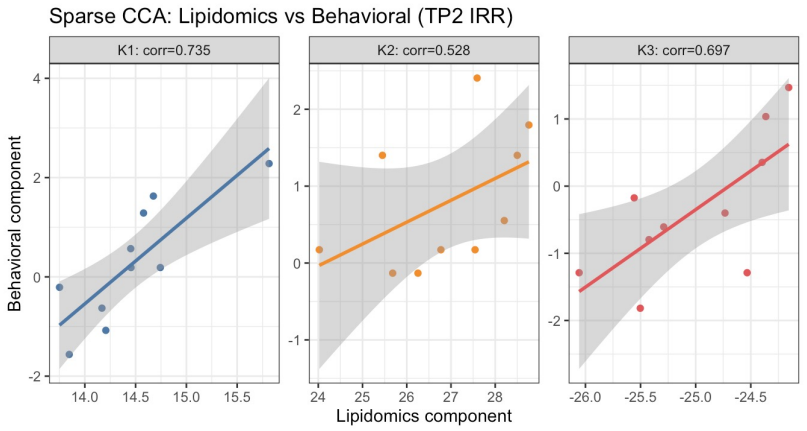
K1 290.086 H= a fatty acid which can be of multiple carbon length and/or number of double bonds

K2 290.087 H = a fatty acid which can be of multiple carbon length and/or number of double bonds

K3 265.147 A = Delta0.0572, Micropine (sphingoid base analogue)

Suppl Fig 20 Behavioral vs lipidomics – TP2

LIPIDS



K	form_out	form_lipid	corr
V1	K1: 1*ofd1_fecal	-0.152 x1544_867_A + 0.971 x1863_996_A + -0.185 x888_642_A	0.7354057
V2	K2: 1*ofd2_fecal	0.385 x1544_87_A + 0.923 x2127_061_A	0.5280724
V3	K3: -1*nod2_fecal	0.0159 x581_184_A + -0.933 x682_283_A + -0.358 x710_314_A	0.6965808

K1

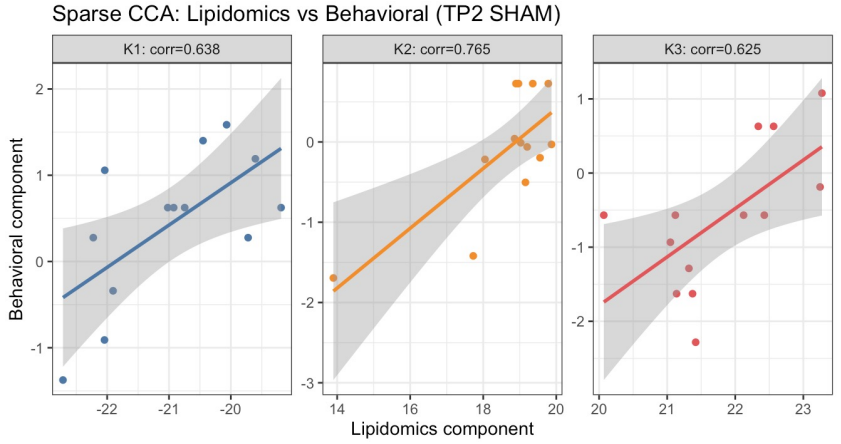
1544.867 A = possibly Ganglioside SB1a (t18:0/26:0)
1863.996 A = no ID

K2

1544.870 A = possibly Ganglioside SB1a (t18:0/26:0)
2127.061 A = Matched mass, 2127.16016 Ganglioside GD1a(NeuGc/NeuGc) (t18:0/36:6(18Z,21Z,24Z,27Z,30Z,33Z), brain ganglioside and it shows the correct mouse sialyation of NeuGc.

K3

581.184 A = no ID
682.283 A = no ID
710.314 A = isobars corresponding to either an oxidized Phosphatidylglycerol or oxidized Phosphatidylinositol



K	form_out	form_lipid	corr
V1	K1: 1*nod1_fecal	-0.978 x1253_773_A + -0.0592 x1544_867_A + -0.2 x581_309_A	0.6383476
V2	K2: -1*fc_cued_percent_time_frz_baseline	-0.157 x888_641_A + 0.0975 x1544_867_H + 0.983 x581_183_H	0.7651704
V3	K3: -1*ofd1_fecal	0.276 x1253_773_A + 0.961 x581_309_A	0.6251693

K1

1253.773 A = no ID
1544.867 A = possibly Ganglioside SB1a (t18:0/26:0)
581.309 A = either lysophosphatidylethanolamine (26:6) delta 0.0391 or Lysophosphatidylserine (22:0) delta 0.0603. Both compounds are derived from their precursors by the enzymatic action of phospholipase A2. The lysophospholipids lead to increase eicosanoid production (leukotrienes and prostaglandins)

K2

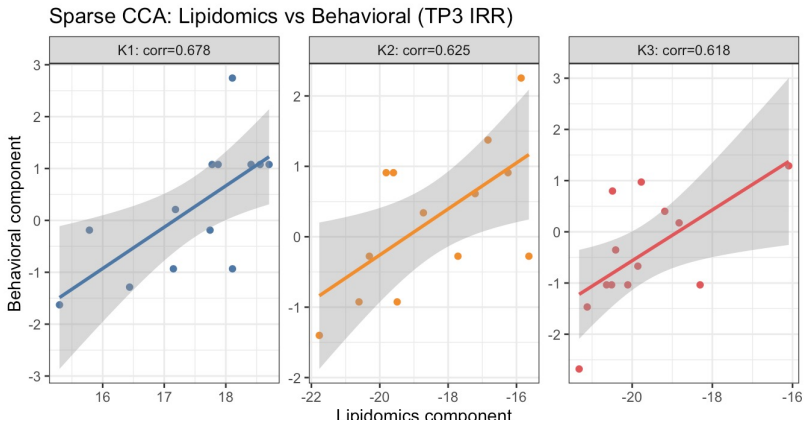
888.641 A = Isobars for unsaturated Phosphatidylinositol with 38 carbons in its tail or an unsaturated triacylglycerol (TG) with 55 carbons composing its three fatty acid tails.
1544.867 H = possibly Ganglioside SB1a (t18:0/26:0)
581.183 H = no ID

K3

1253.773 A = no ID
581.309 A = either lysophosphatidylethanolamine (26:6) delta 0.0391 or Lysophosphatidylserine (22:0) delta 0.0603. Both compounds are derived from their precursors by the enzymatic action of phospholipase A2. The lysophospholipids lead to increase eicosanoid production (leukotrienes and prostaglandins)

Suppl Fig 21 Behavioral vs lipidomics – TP3

LIPIDS



K	form_out	form_lipid	corr
V1	K1: -1*ofd1_fecal	1 x888_641_H	0.6780741
V2	K2: -1*nod1_fecal	-1 x283_264_H	0.6246149
V3	K3: 1*nod2_fecal	-1 x581_183_H	0.6177454

K1

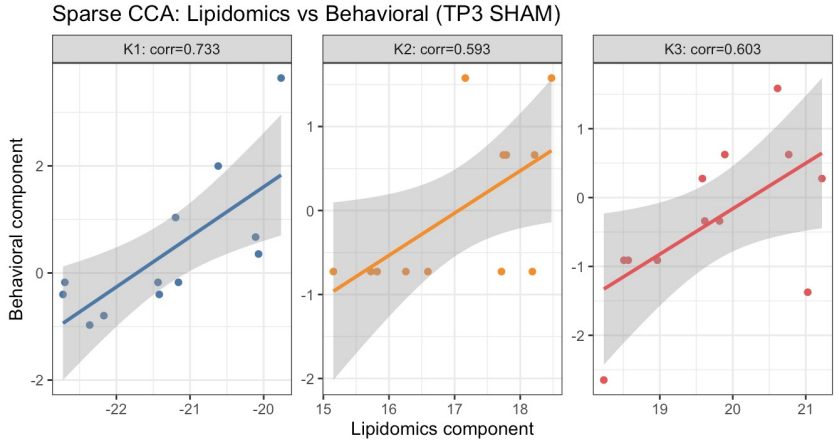
888.641 H = Isobars for unsaturated Phosphatidylinositol with 38 carbons in its tail or an unsaturated triacylglycerol (TG) with 55 carbons composing its three fatty acid tails.

K2

283.264 H = Delta0.0129, n-acylethanolamine (15:1), (induction of inflammation, precursor of eicosanoids or Delta 0.0235, sphingolipid (m18:1), sphingolipid base analog

K3

581.183 H = no ID



K	form_out	form_lipid	corr
V1	K1: -1*nod2_fecal	-0.04 x1544_867_A + -0.999 x1835_964_A	0.7329386
V2	K2: 1*fc_cued_percent_time_frz_baseline	0.04 x1544_867_H + 0.999 x726_589_H	0.5932461
V3	K3: 1*nod1_fecal	0.999 x1835_964_A + -0.04 x1863_995_H	0.6027099

K1

1544.867 A = possibly Ganglioside SB1a (t18:0/26:0)
1835.964 A = no ID

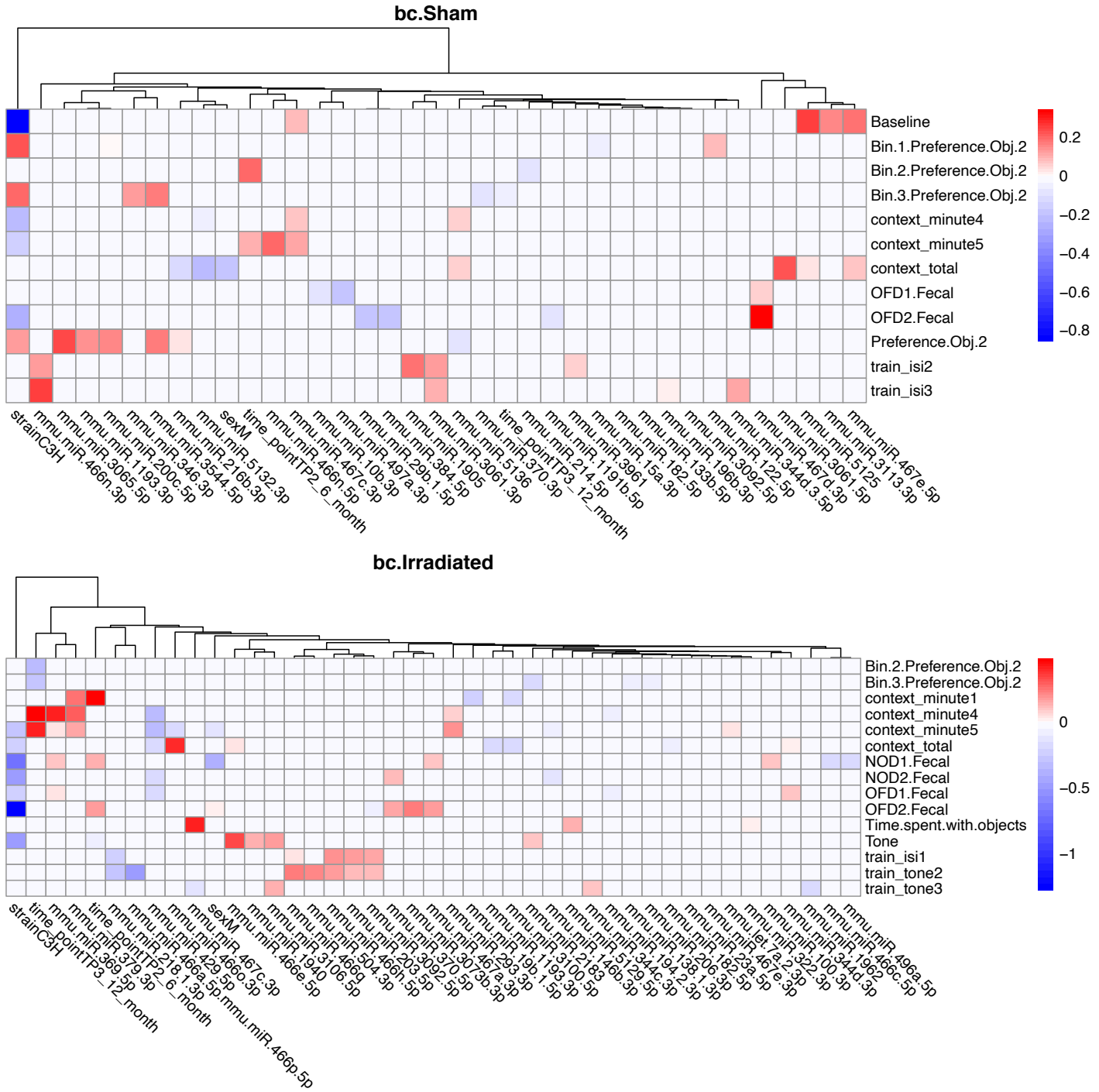
K2

1544.867 H = possibly Ganglioside SB1a (t18:0/26:0)
726.589 H = isobars corresponding to either sphingomyelin (d18:2/18:1, delta 0.0214) which makes up the myelin sheath around neurons, diacylglycerol or phosphatidic acid

K3

1835.964 A = no ID
1863.995 H = no ID

Suppl. Fig 22


bc.Sham
Baseline
Bin.1.Preference.Obj.2
Bin.2.Preference.Obj.2
Bin.3.Preference.Obj.2
context_minute4
context_minute5
context_total
OFD1.Fecal
OFD2.Fecal
Preference.Obj.2
train_isi2
train_isi3
0.2
0
−0.2
−0.4
−0.6
−0.8
strainC3H
mmu.miR.466n.3p
mmu.miR.3065.5p
mmu.miR.1193.3p
mmu.miR.200c.5p
mmu.miR.346.3p
mmu.miR.3544.5p
mmu.miR.216b.3p
sexM
mmu.miR.5132.3p
time_pointTP2_6_month
mmu.miR.466n.5p
mmu.miR.467c.3p
mmu.miR.10b.3p
mmu.miR.497a.3p
mmu.miR.29b.1.5p
mmu.miR.384.5p
mmu.miR.1905
mmu.miR.3061.3p
mmu.miR.5136
time_pointTP3_12_month
mmu.miR.370.3p
mmu.miR.214.5p
mmu.miR.1191b.5p
mmu.miR.3961
mmu.miR.15a.3p
mmu.miR.182.5p
mmu.miR.133b.5p
mmu.miR.196b.3p
mmu.miR.3092.5p
mmu.miR.122.5p
mmu.miR.344d.3.5p
mmu.miR.467d.3p
mmu.miR.3061.5p
mmu.miR.3113.3p
mmu.miR.467e.5p
bc.Irradiated
Bin.2.Preference.Obj.2
Bin.3.Preference.Obj.2
context_minute1
context_minute4
context_minute5
context_total
NOD1.Fecal
NOD2.Fecal
OFD1.Fecal
OFD2.Fecal
Time.spent.with.objects
Tone
train_isi1
train_tone2
train_tone3
0
−0.5
−1
strainC3H
time_pointTP3_12_month
mmu.miR.369.5p
mmu.miR.379.3p
time_pointTP2_6_month
mmu.miR.218.1.3p
mmu.miR.466a.5p
mmu.miR.429.5p
mmu.miR.466o.3p
sexM
mmu.miR.467c.3p
mmu.miR.466e.5p
mmu.miR.1940
mmu.miR.3106.5p
mmu.miR.466q
mmu.miR.504.3p
mmu.miR.466n.5p
mmu.miR.203.5p
mmu.miR.3092.5p
mmu.miR.370.5p
mmu.miR.3073b.3p
mmu.miR.467a.3p
mmu.miR.293.3p
mmu.miR.190.1.5p
mmu.miR.193.3p
mmu.miR.3100.5p
mmu.miR.2183
mmu.miR.146b.3p
mmu.miR.5129.5p
mmu.miR.344c.3p
mmu.miR.194.2.3p
mmu.miR.138.1.3p
mmu.miR.206.3p
mmu.miR.182.5p
mmu.miR.23a.5p
let.7a.2.3p
mmu.miR.467e.3p
mmu.miR.322.3p
mmu.miR.100.3p
mmu.miR.344d.3p
mmu.miR.1962
mmu.miR.466c.5p
mmu.miR.496a.5p