

Supplementary Table SIII. KEGG pathway analysis of targets in module 1

GOID	GOTerm	Ontology Source
KEGG:04024	cAMP signaling pathway	KEGG_04.09.2018
KEGG:04080	Neuroactive ligand-receptor interaction	KEGG_04.09.2018
KEGG:04725	Cholinergic synapse	KEGG_04.09.2018
KEGG:04810	Regulation of actin cytoskeleton	KEGG_04.09.2018
KEGG:04540	Gap junction	KEGG_04.09.2018
KEGG:04726	Serotonergic synapse	KEGG_04.09.2018
KEGG:04750	Inflammatory mediator regulation of TRP channels	KEGG_04.09.2018
KEGG:04020	Calcium signaling pathway	KEGG_04.09.2018
KEGG:04022	cGMP-PKG signaling pathway	KEGG_04.09.2018
KEGG:04261	Adrenergic signaling in cardiomyocytes	KEGG_04.09.2018
KEGG:04270	Vascular smooth muscle contraction	KEGG_04.09.2018
KEGG:04970	Salivary secretion	KEGG_04.09.2018

[illegible]

Group PValue Corrected with Bonferroni step down	GOLevels	GOGroups
	0,00 [-1]	Group0
	0,00 [-1]	Group1
	0,00 [-1]	Group2
	0,00 [-1]	Group2
	0,00 [-1]	Group3
	0,00 [-1]	Group3
	0,00 [-1]	Group3
	0,00 [-1]	Group4
	0,00 [-1]	Group4
	0,00 [-1]	Group4
	0,00 [-1]	Group4
	0,00 [-1]	Group4

% Associated Genes	Nr. Genes
5,05	10,00
9,75	27,00
4,46	5,00
2,35	5,00
5,68	5,00
5,22	6,00
6,06	6,00
7,65	14,00
5,52	9,00
4,17	6,00
4,96	6,00
5,56	5,00

Associated Genes Found

[ADCY1, ADORA1, CHRM1, CHRM2, DRD2, HTR1A, HTR1B, HTR1D, PIK3CA, PTGER3]

[ADORA1, ADRA1A, ADRA1B, ADRA1D, ADRA2A, ADRA2B, ADRA2C, AGTR1, AGTR2, AVPR1A, CHRM1,

[ADCY1, CHRM1, CHRM2, CHRM3, PIK3CA]

[CHRM1, CHRM2, CHRM3, F2, PIK3CA]

[ADCY1, DRD2, HTR2A, HTR2B, HTR2C]

[HTR1A, HTR1B, HTR1D, HTR2A, HTR2B, HTR2C]

[ADCY1, HRH1, HTR2A, HTR2B, HTR2C, PIK3CA]

[ADCY1, ADORA1, ADRA1A, ADRA1B, ADRA1D, AGTR1, AVPR1A, CHRM1, CHRM2, CHRM3, HRH1, HTR2A, HTR2E

[ADCY1, ADORA1, ADRA1A, ADRA1B, ADRA1D, ADRA2A, ADRA2B, ADRA2C, AGTR1]

[ADCY1, ADRA1A, ADRA1B, ADRA1D, AGTR1, AGTR2]

[ADCY1, ADRA1A, ADRA1B, ADRA1D, AGTR1, AVPR1A]

[ADCY1, ADRA1A, ADRA1B, ADRA1D, CHRM3]

CHRM2, CHRM3, DRD2, DRD3, DRD4, F2, HRH1, HTR1A, HTR1B, HTR1D, HTR2A, HTR2B, HTR2C

, HTR2C, PTGER3]

, OPRK1, OPRM1, PTGER3]