| GOID     | GOTerm                          | Ontology Source |
|----------|--------------------------------|-----------------|
| KEGG:04080 | Neuroactive ligand-receptor interaction | KEGG_04.09.2018 |
| KEGG:04020 | Calcium signaling pathway       | KEGG_04.09.2018 |
| KEGG:04024 | cAMP signaling pathway         | KEGG_04.09.2018 |
| Term PValue | Term PValue Corrected with Bonferroni step down | Group PValue |
|------------|------------------------------------------------|--------------|
| 0,00       | 0,00                                           | 0,00         |
| 0,00       | 0,00                                           | 0,00         |
| 0,00       | 0,00                                           | 0,00         |

Supplementary Table SVI.

KEGG pathway analysis of targets in module 4
| Group | PValue Corrected with Bonferroni step down | GOLevels | GOGroups |
|-------|------------------------------------------|----------|----------|
| 0,00  | [-1]                                     |          | Group0   |
| 0,00  | [-1]                                     |          | Group1   |
| 0,00  | [-1]                                     |          | Group1   |
| % Associated Genes | Nr. Genes |
|--------------------|-----------|
| 2,89               | 8,00      |
| 2,73               | 5,00      |
| 2,53               | 5,00      |
Associated Genes Found
[ADORA2A, ADORA2B, AVPR2, DRD1, DRD5, HTR4, PTGER2, PTGER4]
[ADORA2A, ADORA2B, DRD1, DRD5, HTR4]
[ADORA2A, DRD1, DRD5, HTR4, PTGER2]