

S10 Table

| | Term | # Genes | % Genes | Adjusted p-value |
|--------------------------|---|----------------|----------------|-------------------------|
| CpA (3,412 genes) | 1. Topological domain: extracellular | 587 | 17.2 | 1.9×10^{-5} |
| | 2. G-protein coupled receptor signaling pathway | 213 | 6.2 | 1.8×10^{-4} |
| | 3. Olfactory receptor activity | 112 | 3.3 | 7.5×10^{-5} |
| | 4. GPCR, rhodopsin-like, 7TM | 174 | 5.1 | 1.5×10^{-4} |
| | 5. G-protein coupled receptor, rhodopsin-like | 170 | 5.0 | 1.0×10^{-4} |
| | 6. Olfactory receptor | 112 | 3.3 | 7.4×10^{-5} |
| | 7. Detection of chemical stimulus involved in sensory perception of smell | 111 | 3.3 | 2.5×10^{-4} |
| | 8. Olfaction | 114 | 3.3 | 5.4×10^{-5} |
| | 9. Topological domain: cytoplasmic | 701 | 20.5 | 3.7×10^{-4} |
| | 10. Transmembrane region | 981 | 28.8 | 2.5×10^{-4} |
| | 11. Transducer | 207 | 6.1 | 5.3×10^{-5} |
| | 12. G-protein coupled receptor | 194 | 5.7 | 5.4×10^{-5} |
| | 13. Glycosylation site: N-linked (GlcNAc...) | 844 | 24.7 | 8.1×10^{-4} |
| | 14. Olfactory transduction | 112 | 3.3 | 2.5×10^{-4} |
| | 15. Integral component of membrane | 989 | 29.0 | 1.0×10^{-3} |
| | 16. Glycoprotein | 906 | 26.6 | 1.9×10^{-4} |
| | 17. Sensory transduction | 146 | 4.3 | 1.9×10^{-4} |
| | 18. G-protein coupled receptor activity | 163 | 4.8 | 1.7×10^{-3} |
| | 19. Transmembrane | 1076 | 31.5 | 2.5×10^{-4} |
| | 20. Transmembrane helix | 1072 | 31.4 | 2.4×10^{-4} |
| | 21. Cell membrane | 635 | 18.6 | 4.1×10^{-4} |
| | 22. Receptor | 350 | 10.3 | 6.8×10^{-4} |
| | 23. Nucleosome core | 31 | 0.9 | 1.6×10^{-3} |
| | 24. Sensory perception of smell | 44 | 1.3 | 8.6×10^{-2} |
| | 25. Histone-fold | 35 | 1.0 | 4.0×10^{-2} |
| | 26. Keratin-associated matrix | 11 | 0.3 | 3.6×10^{-2} |
| | 27. Disulfide bond | 670 | 19.6 | 3.6×10^{-3} |
| | 28. TAF | 10 | 0.3 | 4.1×10^{-2} |
| | 29. H4 | 10 | 0.3 | 4.1×10^{-2} |
| | 30. TATA box binding protein associated factor (TAF) | 10 | 0.3 | 3.9×10^{-2} |
| | 31. Histone H4 | 10 | 0.3 | 3.9×10^{-2} |
| CpC (1,289 genes) | 1. Mitochondrion | 119 | 9.2 | 3.6×10^{-1} |
| | 2. Neuron projection | 30 | 2.3 | 5.0×10^{-1} |
| CpG (2,136 genes) | see Table 2 in the main manuscript | | | |
| CpT (625 genes) | 1. Signal | 153 | 24.5 | 7.1×10^{-1} |
| | 2. Secreted | 84 | 13.4 | 4.8×10^{-1} |