#WHICH STRUCTURES ARE ACTIVATED?

**#1) STLD: Lateral Dorsal Striatum (putamen): dorsal striatum is involved in cognitive functions (motor functions, certain executive functions and stimulus-response learning) motor (what actions to take?)**

wilcox.test(a3h, a5h) #p-value = 0.2772

wilcox.test(a3sh, a5sh) #p-value = 0.0388

#2) STMD = Medial Dorsal Striatum

t.test(b3h, b5h) #p-value:0.1386

t.test(b3sh, b5sh) #p-value:0.9806

**#3)AMBASLAT => Baso-lateral Amygdala**

t.test(c3h, c5h) #p-value = 0.7433

t.test(c3sh, c5sh) #p-value = 0.8254

**#4)AMLAT => Lateral Amygdala**

t.test(d3h, d5h) #p-value =0.4211

t.test(d3sh, d5sh) #p-value = 0.0098

**#5)ENTORH => Entorhinal cortex**

t.test(e3h, e5h) #p-value = 0.3518

t.test(e3sh, e5sh) #p-value = 0.009218

**#6)PERIRH => Perirhinal cortex**

t.test(g3h, g5h) #p-value = 0.6135

wilcox.test(g3sh, g5sh) #p-value = 0.001358

**#7)CA1 => CA1 of the dorsal hippocampus**

t.test(h3sh, h5sh) #p-value = 3.537e-05

**#8)CA3 => CA3 of the dorsal hippocampus**

t.test(i3sh, i5sh) #p-value = 1.027e-05

**#9)DG => Dentate Gyrus, dorsal area**

t.test(j3sh, j5sh) #p-value = 0.2454

**#10)CINGULAR => Cingular cortex**

t.test(k3h, k5h) #p-value = 0.004389

wilcox.test(k3sh, k5sh) #p-value = 0.5375

**#11)PRELIMB => Prelimbic cortex**

t.test(l3h, l5h) #p-value = 0.4819

t.test(l3sh, l5sh) #p-value = 0.6627

**#12)SOMSENS => Somatosensorial cortex**

t.test(m3h, m5h) #p-value = 0.1

wilcox.test(m3sh, m5sh) #p-value = 0.9299

**#13)SUBICULUM => Subiculum**

wilcox.test(n3h, n5h) #p-value = 0.7054

t.test(n3sh, n5sh) #p-value = 0.08971

**#14)ACCCORE => Core of the Accumbens**

t.test(o3h, o5h) #p-value = 0.9762

wilcox.test(o3sh, o5sh) #p-value =0.07718

**#15) ACCSHELL => Shell of the Accumbens**

wilcox.test(p3h, p5h) #p-value = 0.2638

t.test(p3sh, p5sh) #p-value = 0.3694

**#16) VISUAL => Visual cortex**

t.test(q3h, q5h) # p-value = 0.919

t.test(q3sh, q5sh) #p-value = 0.02098

**#17)PIRIFORM => Piriform cortex**

t.test(r3h, r5h) #p-value = 0.44

t.test(r3sh, r5sh) #p-value = 0.8562

**#18)PARIETAL => Parietal cortex**

wilcox.test(s3h, s5h) #p-value = 0.01062

t.test(s3sh, s5sh) #p-value = 0.09512

**#19) RETROSPLEN => Retrosplenial cortex**

wilcox.test(s3h, s5h) #p-value 0.01062

t.test(s3sh, s5sh) #p-value = 0.09512

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| SH-ACTIVATED | | H-ACTIVATED | |
| Structure | p-value | Structure | p-value |
| Lateral Dorsal Straitum | 0.0388 | Cingular Cortex | 0.004389 |
| Lateral Amygdala | 0.0098 | Visual Cortex | 0.02098 |
| Entorhinal cortex | 0.009218 | Parietal Cortex | 0.01062 |
| Perirhinal cortex | 0.001358 | Retrosplineal cortex | 0.01062 |
| CA1 | 3.537e-05 |  |  |
| CA3 | 1.027e-05 |  |  |