**Supplementary File 3**. Summary of local volumetric changes induced by UPS using voxel based morphometric analysis with minimal cluster size > 25 voxels, FDR < 0.1, *p* < 0.0105. n = 12 mice per condition.

|  |  |  |  |
| --- | --- | --- | --- |
| **Brain region** | **Direction Compared to CTL** | **Outcomes in humans** | **References for human literature** |
| Olfactory Bulb | Increased | Decreased in those that develop PTSD, but only one report | (Nwulia et al., 2017) |
| Nucleus accumbens | Increased | Inconsistent findings | (Teicher and Samson, 2016, Frodl et al., 2017) |
| Cingulate Cortex | Increased | Mostly reduced, but see Zuo 2019 for increased vol. | (Teicher and Samson, 2016, Zuo et al., 2019) |
| Sensory Cortex | Increased | Changes appear to be related to the type of adversity | (Teicher and Samson, 2016) |
| Ventral Hippocampus | Increased | Decreased, but see Frodl 2017 for a failure to replicate in a large cohort. | (Teicher and Samson, 2016, Frodl et al., 2017) |
| Amygdala | Increased | Inconsistent findings | (Teicher and Samson, 2016, VanTieghem and Tottenham, 2018, Frodl et al., 2017) |
| Frontal Cortex | Decreased | Decreased | (Teicher and Samson, 2016) |
| Fimbria | Decreased | Inconsistent findings | (Teicher et al., 2012, Frodl et al., 2017) |
| Striatum | Decreased | Inconsistent findings | (Teicher and Samson, 2016, Frodl et al., 2017) |
| Thalamus | Decreased | Inconsistent findings | (Teicher and Samson, 2016, Frodl et al., 2017) |

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