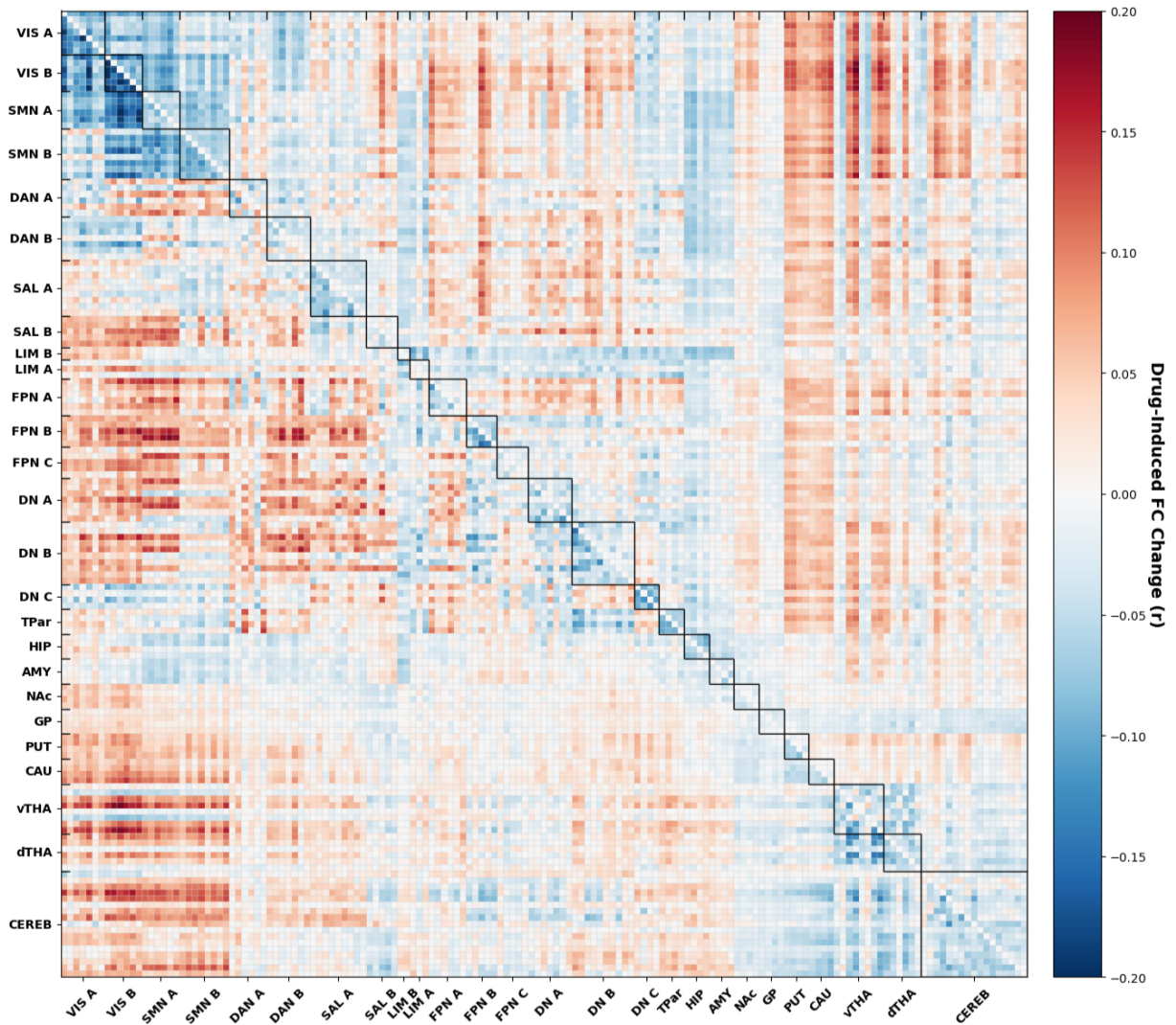


An international mega-analysis of psychedelic drug effects on brain circuit function

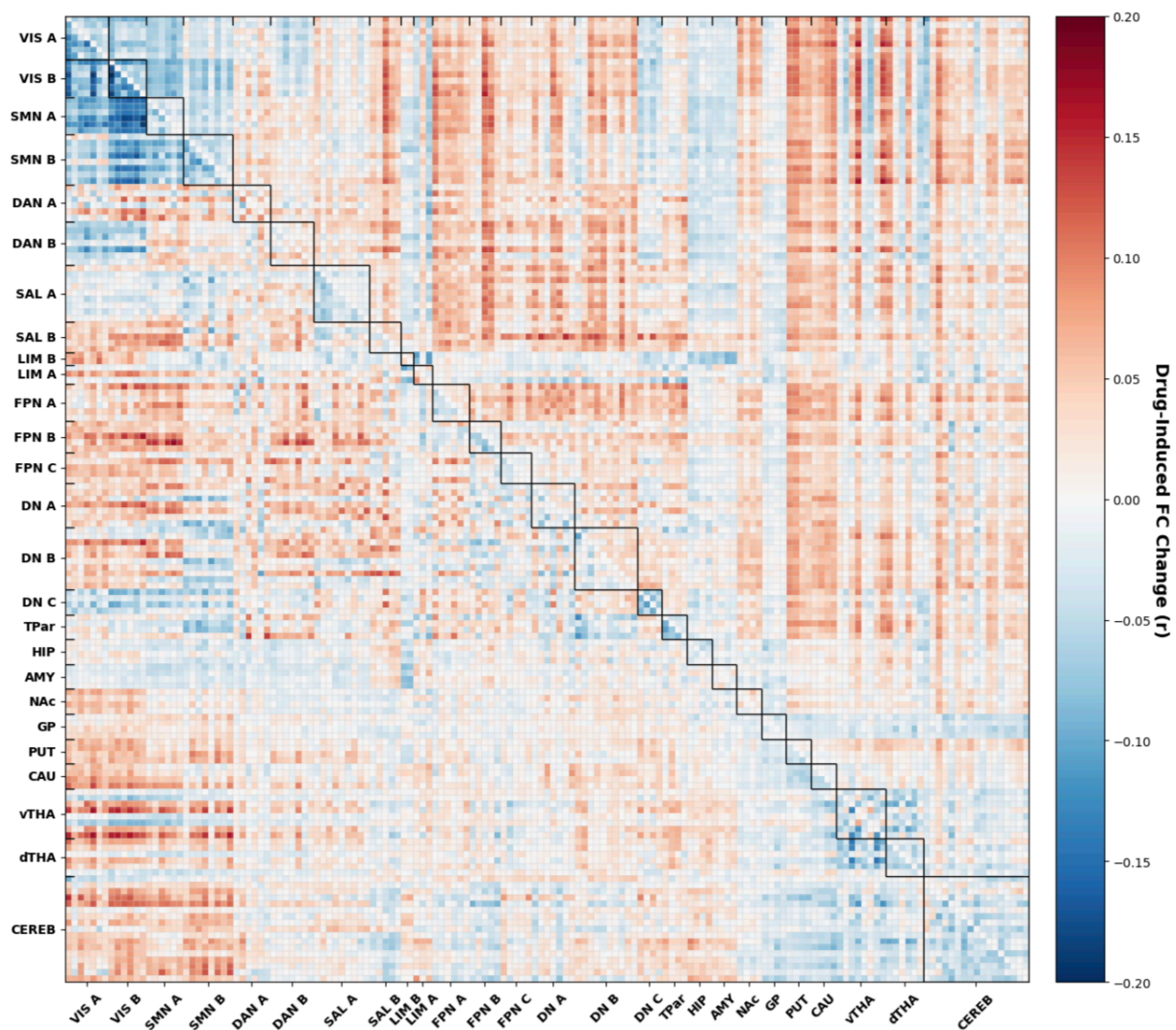
In the format provided by the
authors and unedited

Supplementary Materials

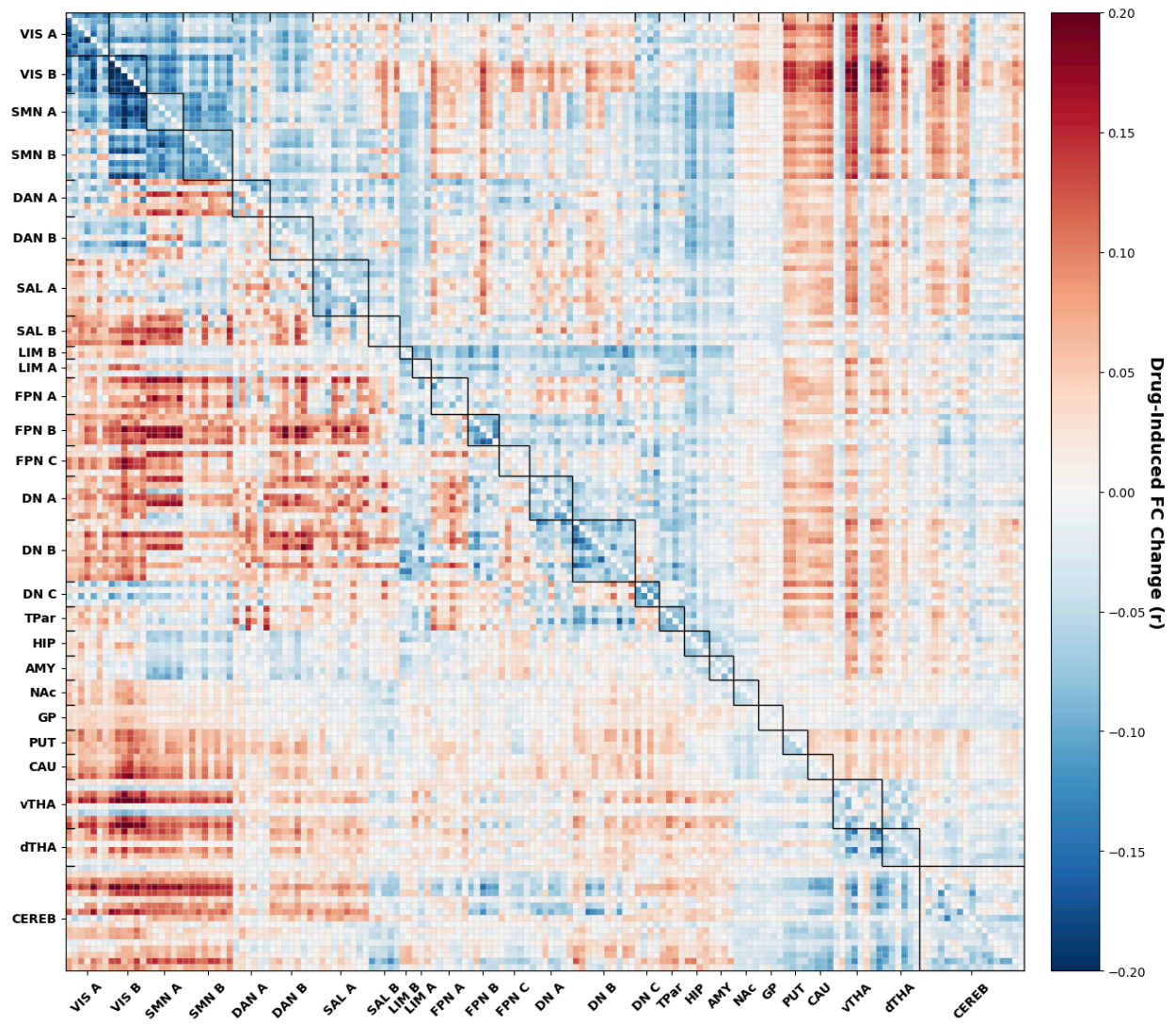


Supplementary Figure 1. Mean drug-placebo FC difference at the region-wise level across all drugs and datasets, using the Schaefer-Yeo 100 parcel cortical atlas (Schaefer et al., 2017), Tian et al, (2020) subcortical atlas, and Buckner et al (2011) cerebellum atlas. Top triangle is without GSR; bottom triangle is with GSR. *Abbreviations: VIS, visual; SMN, somatomotor network; DAN, dorsal attention network; SAL, salience network; LIM, limbic; FPN, frontoparietal network; DN, default network; TPar, temporoparietal network; HIP, hippocampus; AMY, amygdala; NAc, nucleus accumbens; GP, globus pallidus; PUT, putamen; CAU, caudate; vTHA, ventral thalamic nuclei; dTHA, dorsal thalamic nuclei; CEREB, cerebellum.*

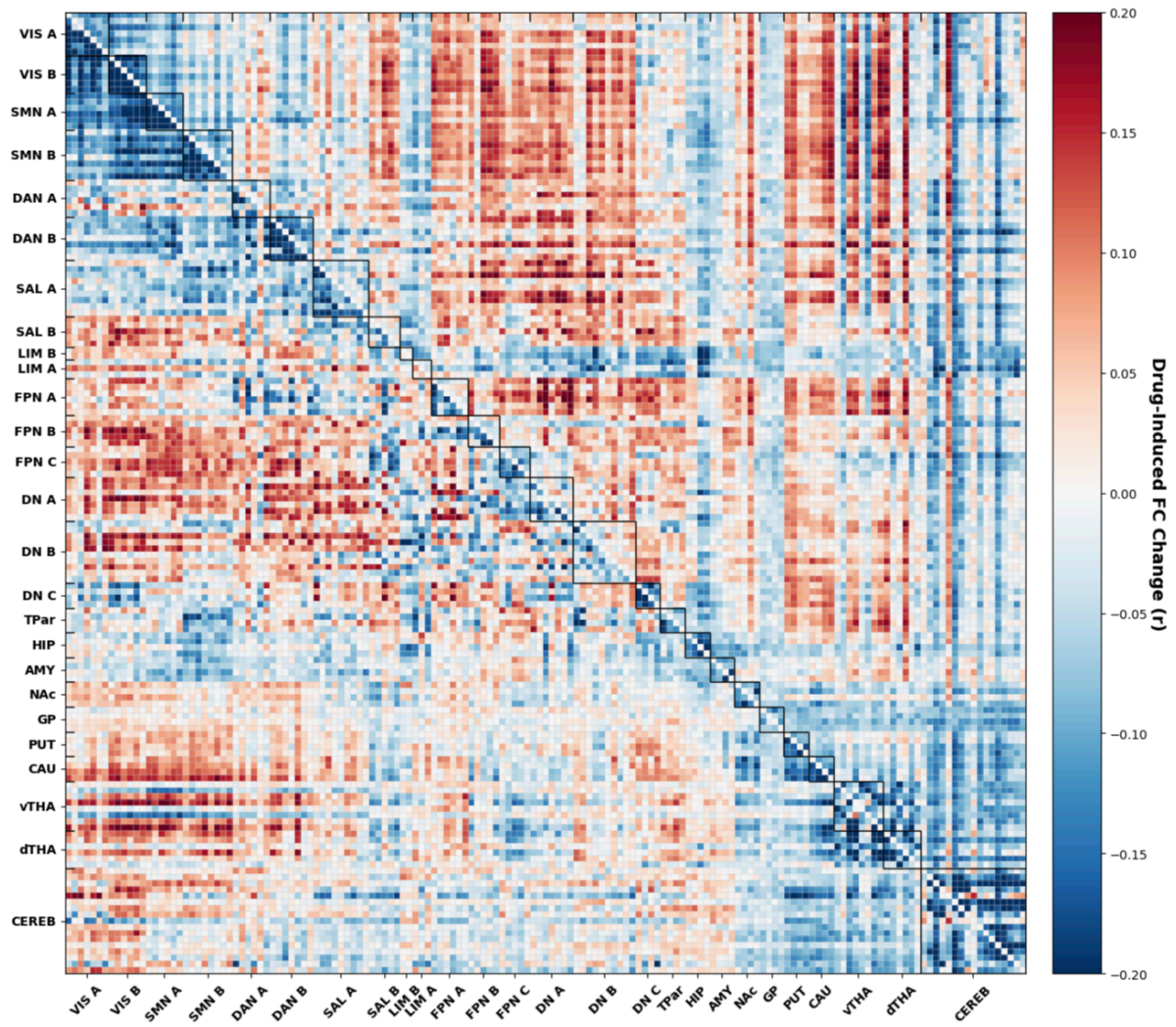
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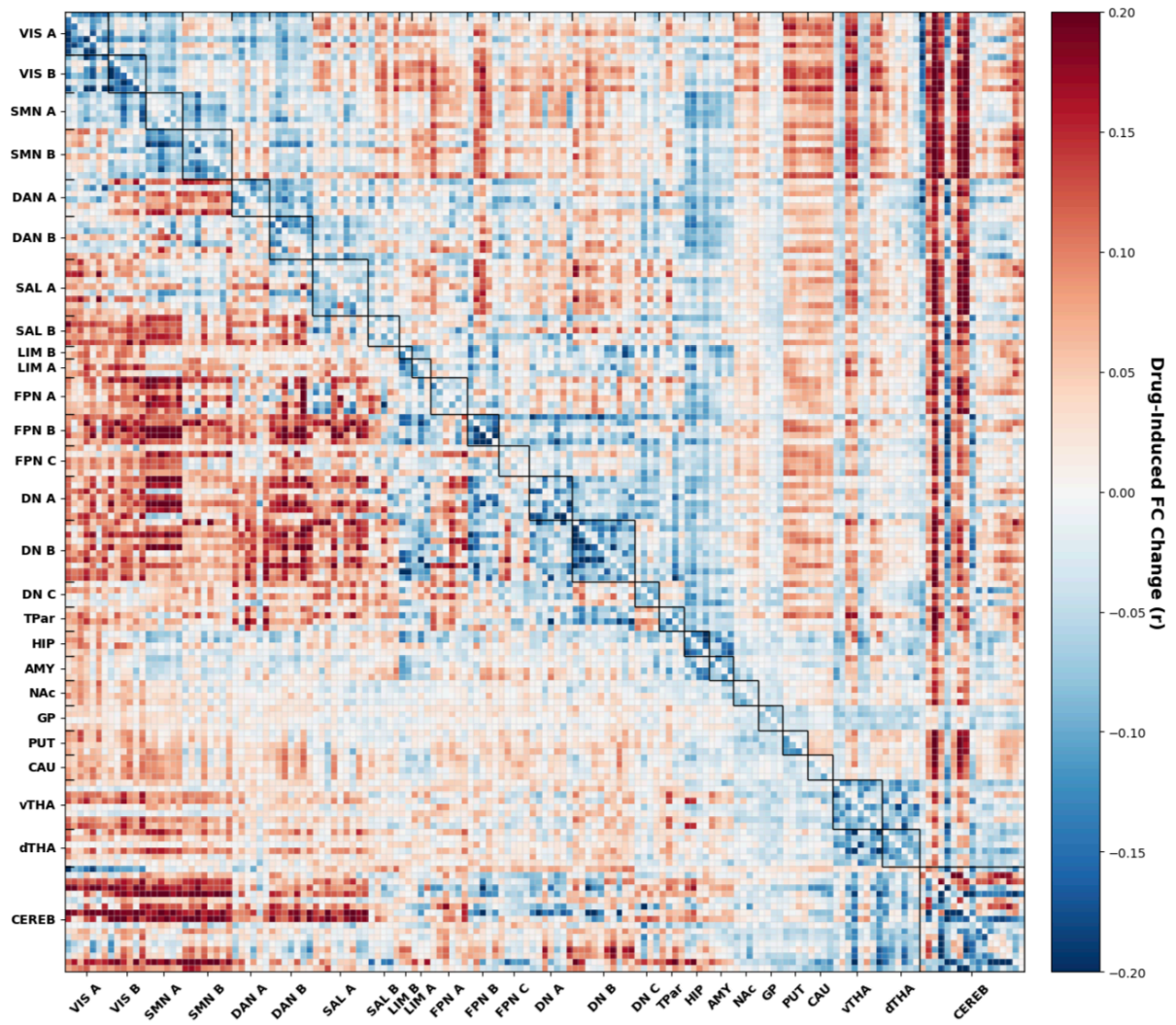
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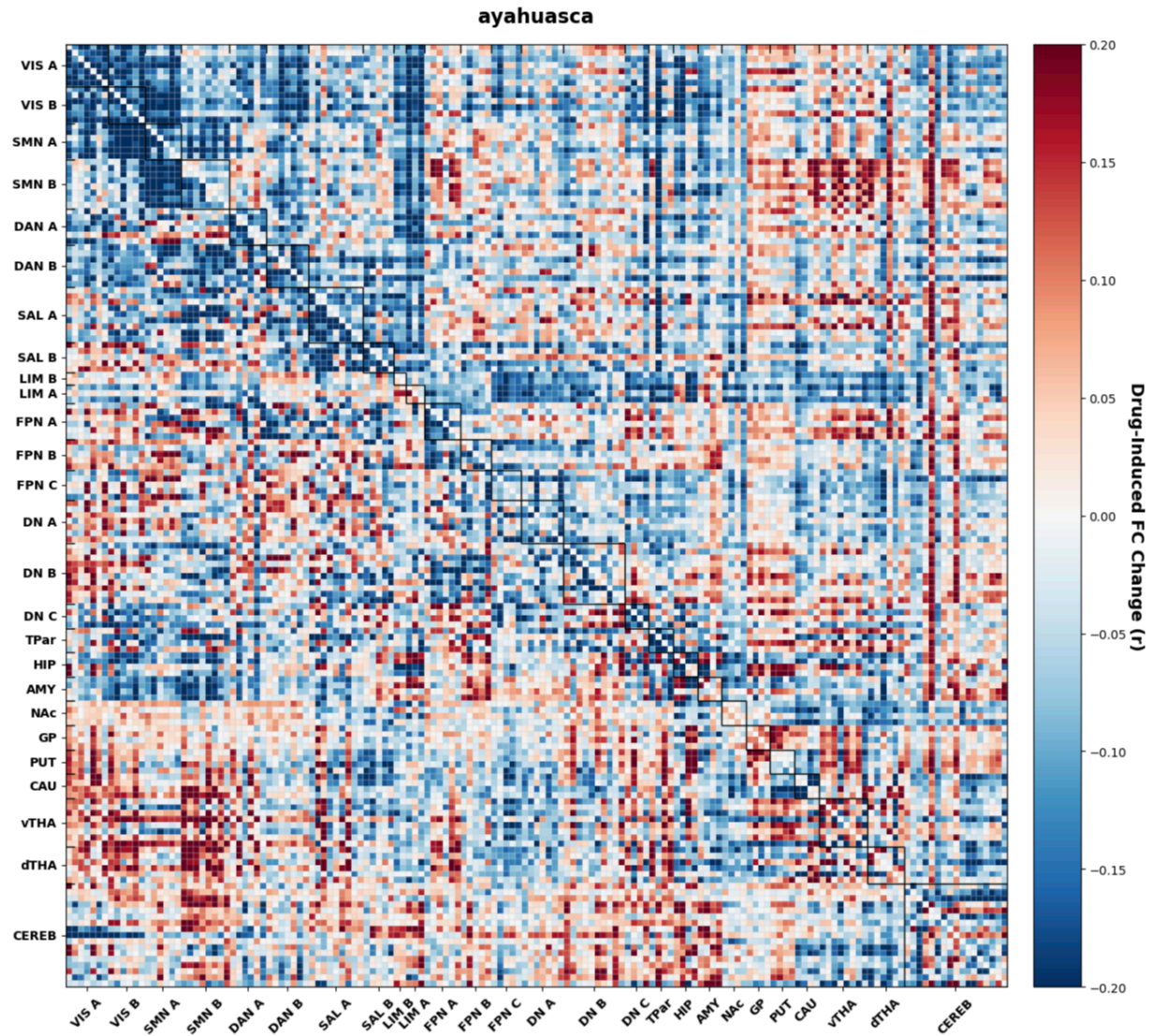


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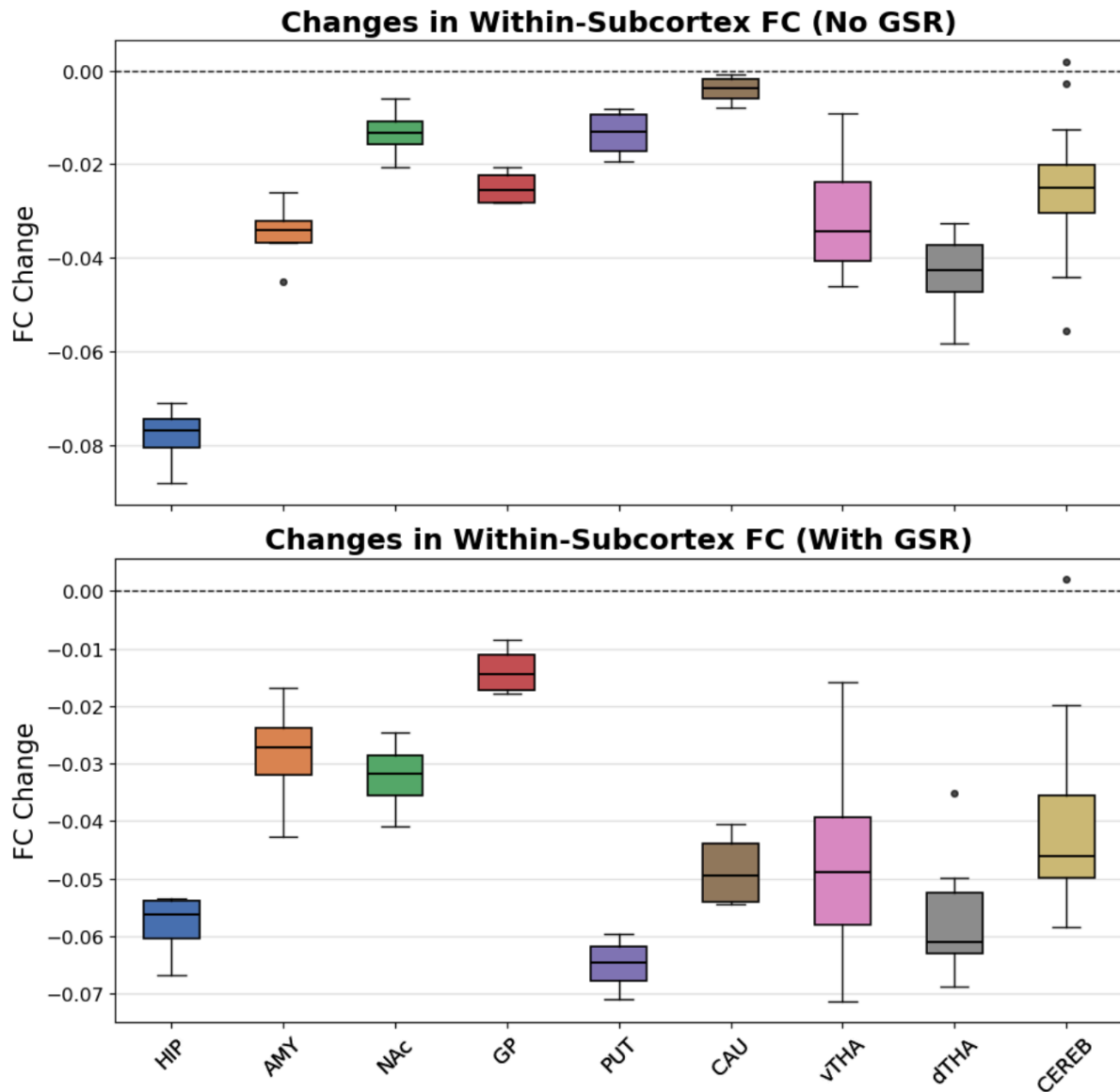


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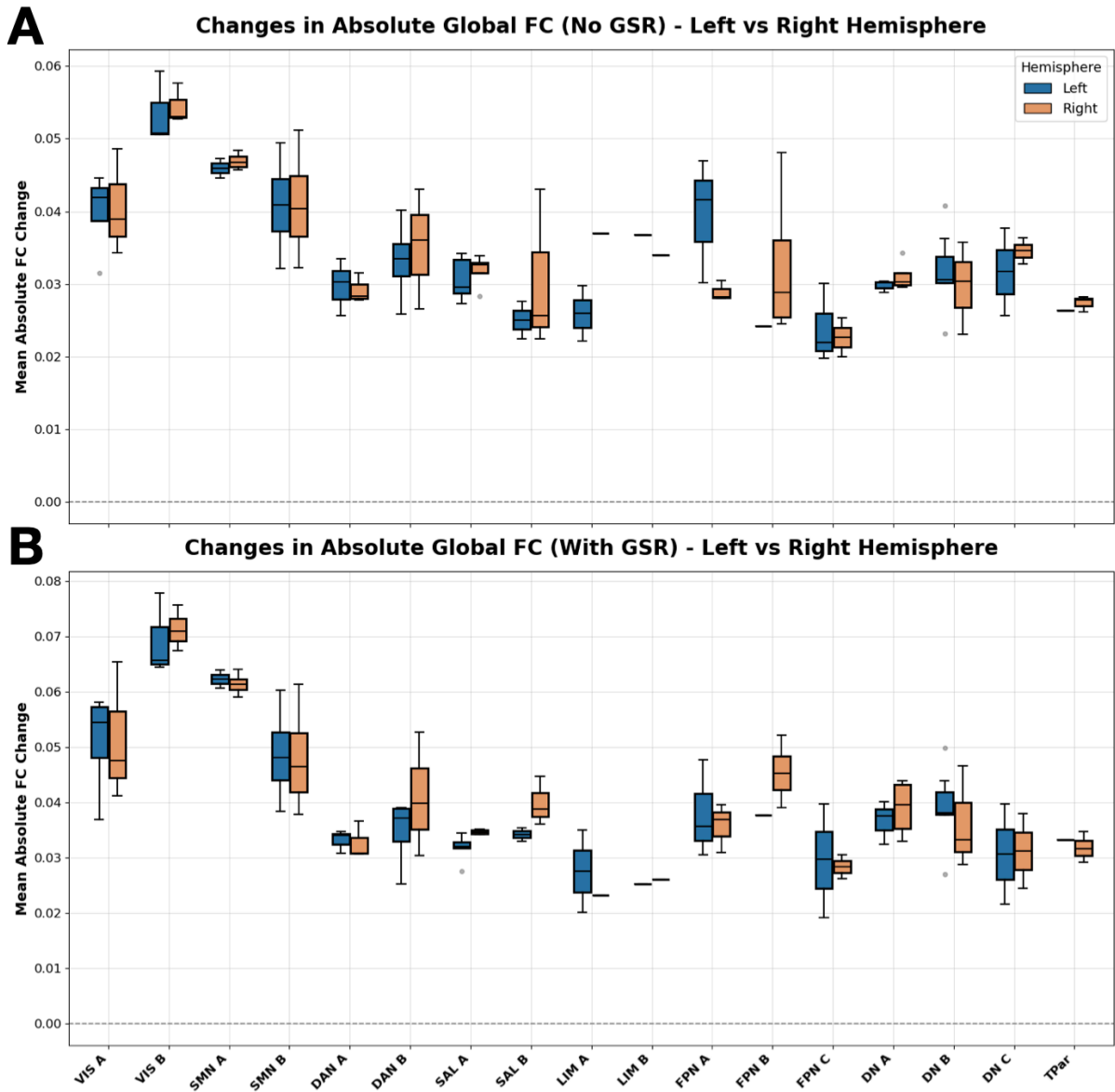




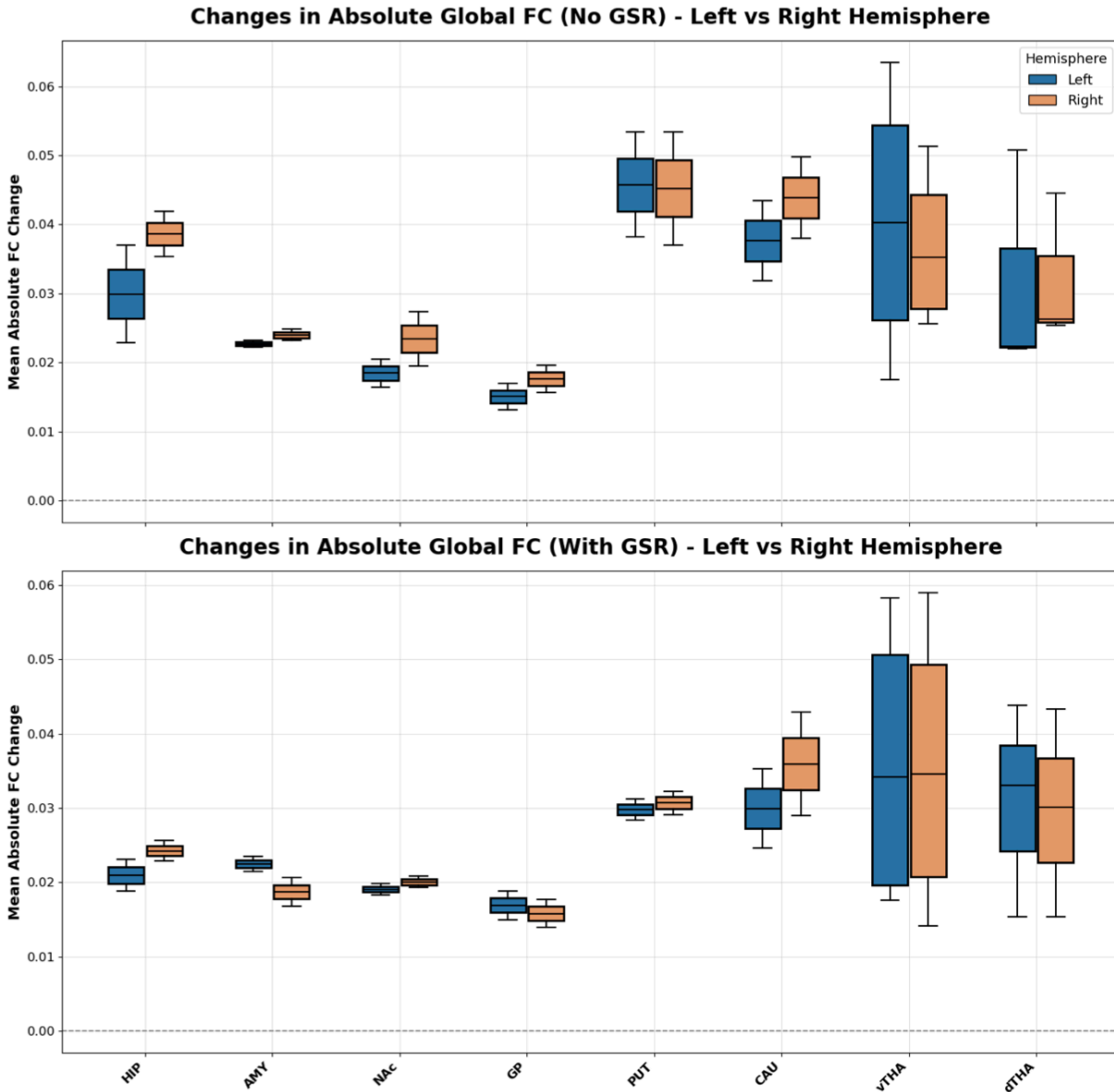
Supplementary Figure 2. Mean drug-placebo FC difference at the region-wise level for each drug separately, using the Schaefer-Yeo 100 parcel cortical atlas (Schaefer et al., 2017), Tian et al, (2020) subcortical atlas, and Buckner et al (2011) cerebellum atlas. Top triangle is without GSR; bottom triangle is with GSR. *Abbreviations: VIS, visual; SMN, somatomotor network; DAN, dorsal attention network; SAL, salience network; LIM, limbic; FPN, frontoparietal network; DN, default network; TPar, temporoparietal network; HIP, hippocampus; AMY, amygdala; NAc, nucleus accumbens; GP, globus pallidus; PUT, putamen; CAU, caudate; vTHA, ventral thalamic nuclei; dTHA, dorsal thalamic nuclei; CEREB, cerebellum.*



Supplementary Figure 3. Drug-induced changes in within-region FC for subcortical regions across all drugs and datasets, both without GSR (A) and with GSR (B). Box plot values pertain to the mean within-network FC of each network's constituent regions. *Abbreviations: HIP, hippocampus; AMY, amygdala; NAc, nucleus accumbens; GP, globus pallidus; PUT, putamen; CAU, caudate; vTHA, ventral thalamic nuclei; dTHA, dorsal thalamic nuclei; CEREB, cerebellum.*



Supplementary Figure 4. Hemispheric asymmetries in global FC changes across all drugs and datasets. Absolute mean drug-placebo difference in global FC across all drugs and datasets, averaged for each (sub)network, both without GSR (**A**) and with GSR (**B**). Visualized values represent individual brain regions (Schaefer-Yeo 100 parcels). Blue indicates left hemisphere; orange indicates right hemisphere.



Supplementary Figure 5. Subcortical hemispheric asymmetries in global FC changes across all drugs and datasets, both without GSR (A) and with GSR (B). Blue indicates left hemisphere; orange indicates right hemisphere. *Abbreviations: HIP, hippocampus; AMY, amygdala; NAc, nucleus accumbens; GP, globus pallidus; PUT, putamen; CAU, caudate; vTHA, ventral thalamic nuclei; dTHA, dorsal thalamic nuclei; CEREB, cerebellum.*

Additional figures can be found in this manuscript's associated GitHub repository, found here: https://github.com/banilo/BOLD_psychedelics_consortium

Supplementary References

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