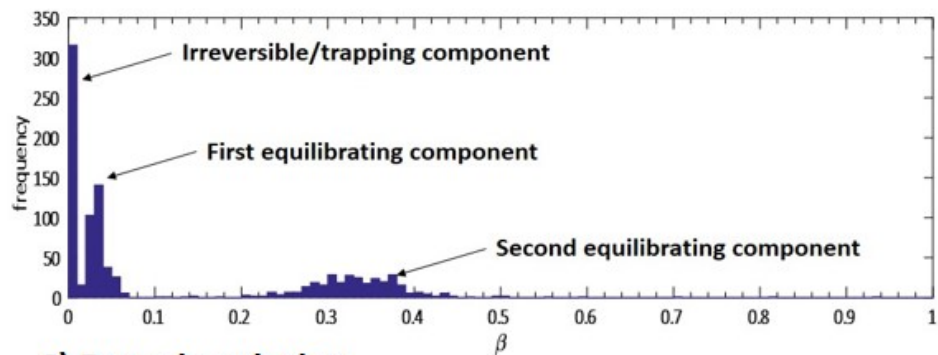
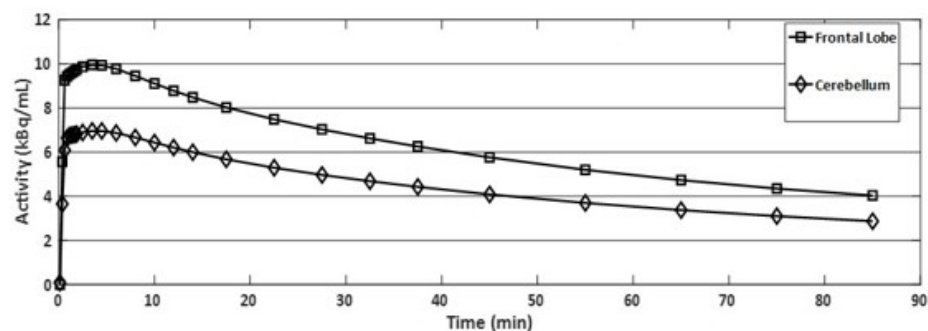


A) Kinetic Spectrum

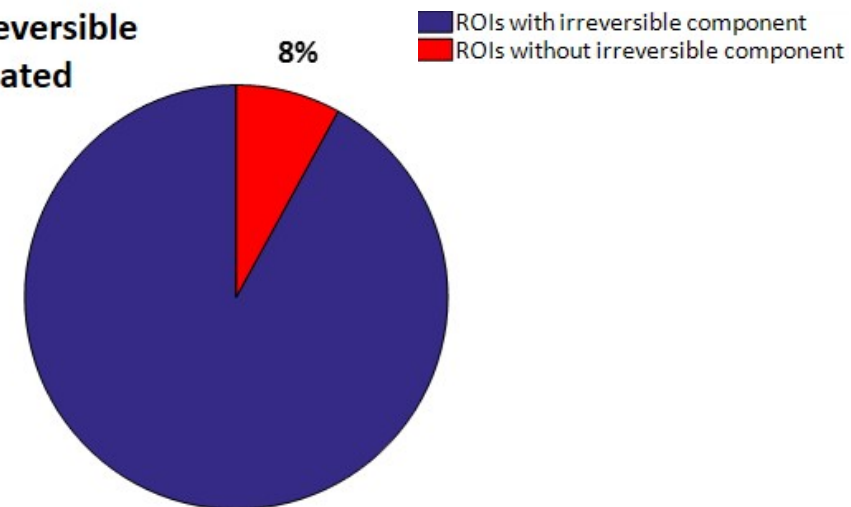


C) Data description

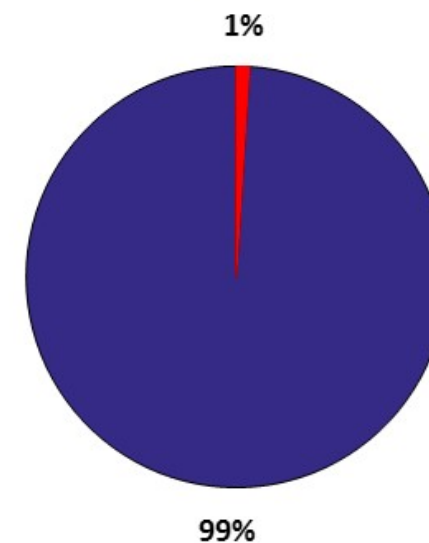


B) Statistics of irreversible components estimated with SA

HABs



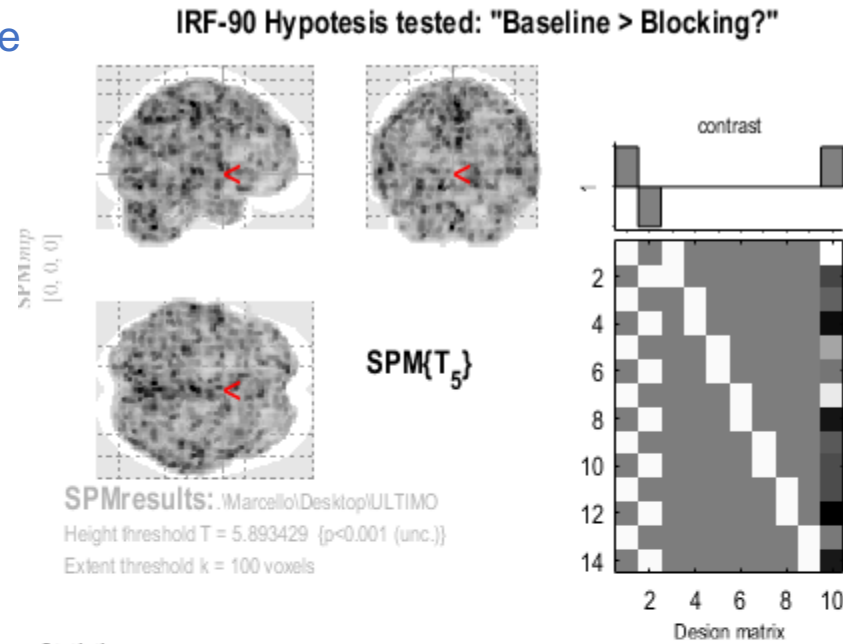
MABs



Parametric mapping for TSPO PET imaging with spectral analysis impulsive response function

Paired t-test to compare [11C]PRB28 PET SA IRF voxel estimates before and after competitive TSPO blockage with XBD173

Hypothesis: SA IRF baseline > SA IRF blocking



Statistics: p-values adjusted for search volume

cluster-level				peak-level					mm mm mm		
$p_{FWE-corr}$	$q_{FDR-corr}$	k_E	p_{uncorr}	$p_{FWE-corr}$	$q_{FDR-corr}$	T	$(Z_{...})$	p_{uncorr}			
0.000	0.000	969120	0.000	0.017	0.217	47.26	5.37	0.000	2	-24	50
				0.018	0.217	46.83	5.36	0.000	-2	-56	-42
				0.018	0.217	46.39	5.35	0.000	-12	-68	-12

table shows 3 local maxima more than 8.0mm apart

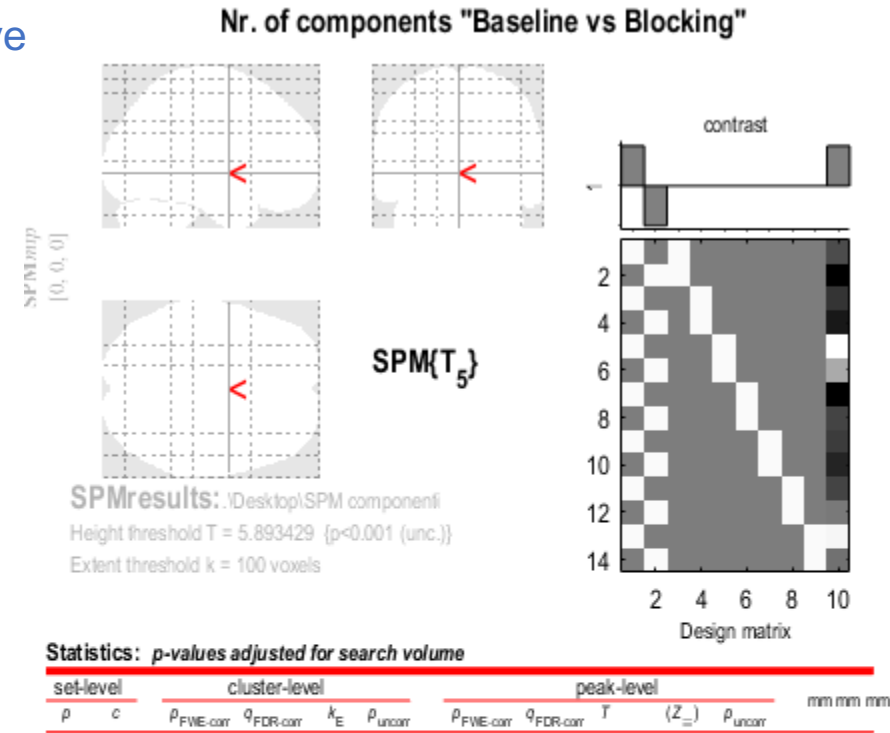
Height threshold: T = 5.89, p = 0.001 (1.000)	Degrees of freedom = (1.0, 5.0)
Extent threshold: k = 100 voxels, p = 0.005 (0.180)	FWHM = 16.4 16.7 15.5 mm mm mm; 8.2 8.4 7.7 (voxels)
Expected voxels per cluster, $\langle k \rangle = 10.680$	Volume: 3345448 = 418181 voxels = 747.4 resels
Expected number of clusters, $\langle c \rangle = 0.20$	Voxel size: 2.0 2.0 2.0 mm mm mm; (resel = 529.80 voxels)
FWEp: 37.957, FDRp: Inf, FWEc: 96912, FDRc: 96912	

Parametric mapping for TSPO PET imaging with spectral analysis impulsive response function

Paired t-test to compare [11C]PRB28 PET SA number of spectral components before and after competitive TSPO blockage with XBD173

Hypothesis: no difference between two conditions

Supplementary Figure 4



no suprathreshold clusters

table shows 3 local maxima more than 8.0mm apart

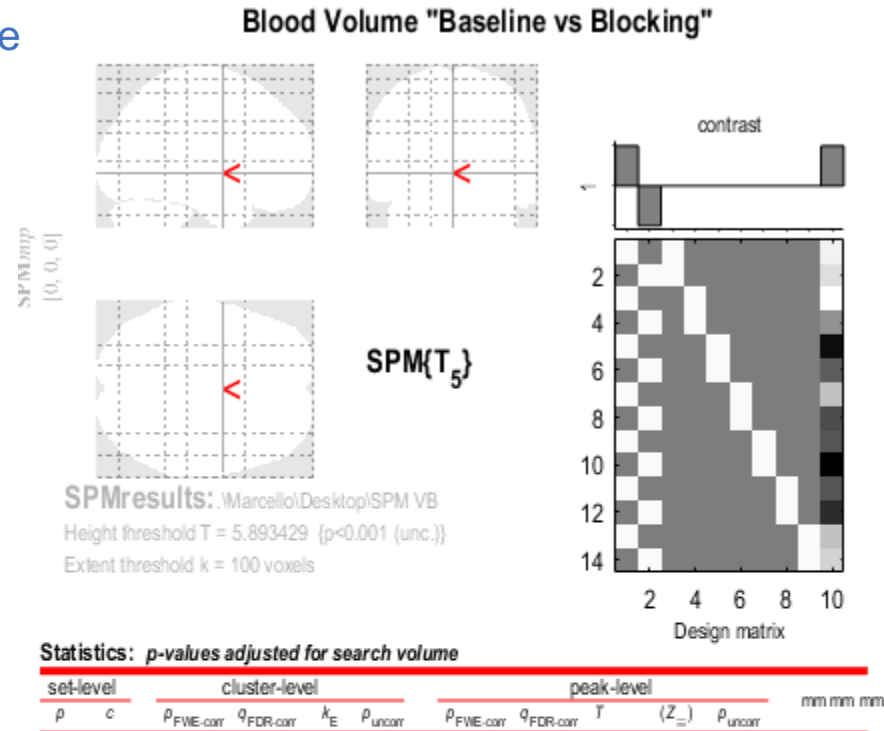
Height threshold: T = 5.89, p = 0.001 (1.000)	Degrees of freedom = (1.0, 5.0)
Extent threshold: k = 100 voxels, p = 0.000 (0.000)	FWHM = 4.3 4.4 4.6 mm mm mm; 2.1 2.2 2.3 {voxels}
Expected voxels per cluster, $\langle k \rangle = 0.217$	Volume: 1535640 = 191955 voxels = 15722.3 reals
Expected number of clusters, $\langle c \rangle = 0.00$	Voxel size: 2.0 2.0 2.0 mm mm mm; (resel = 10.78 voxels)
FWEp: 32.465, FDRp: Inf, FWEc: 8, FDRc: 1	

Parametric mapping for TSPO PET imaging with spectral analysis impulsive response function

Paired t-test to compare [11C]PRB28 PET blood volume before and after competitive TSPO blockage with XBD173

Hypothesis: no difference between two conditions

Supplementary Figure 5



no suprathreshold clusters

table shows 3 local maxima more than 8.0mm apart

Height threshold: T = 5.89, p = 0.001 (1.000)	Degrees of freedom = (1.0, 5.0)
Extent threshold: k = 100 voxels, p = 0.000 (0.000)	FWHM = 5.4 5.7 5.8 mm mm mm; 2.7 2.9 2.9 (voxels)
Expected voxels per cluster, $\langle k \rangle = 0.449$	Volume: 266200 = 33275 voxels = 43.2 resels
Expected number of clusters, $\langle c \rangle = 0.00$	Voxel size: 2.0 2.0 2.0 mm mm mm; (resel = 22.26 voxels)
FWEp: 22.819, FDRp: Inf, FWEc: Inf, FDRc: Inf	