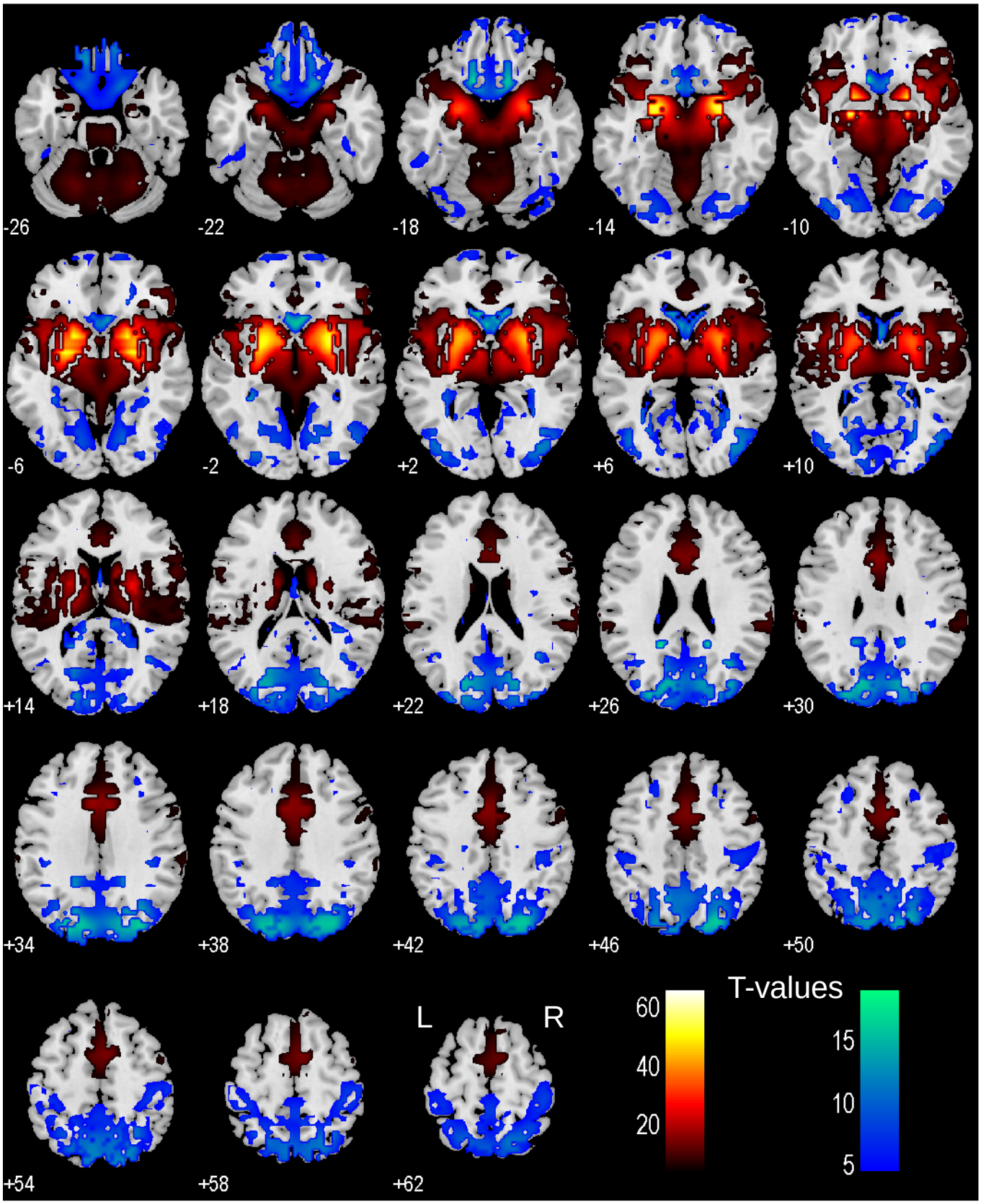
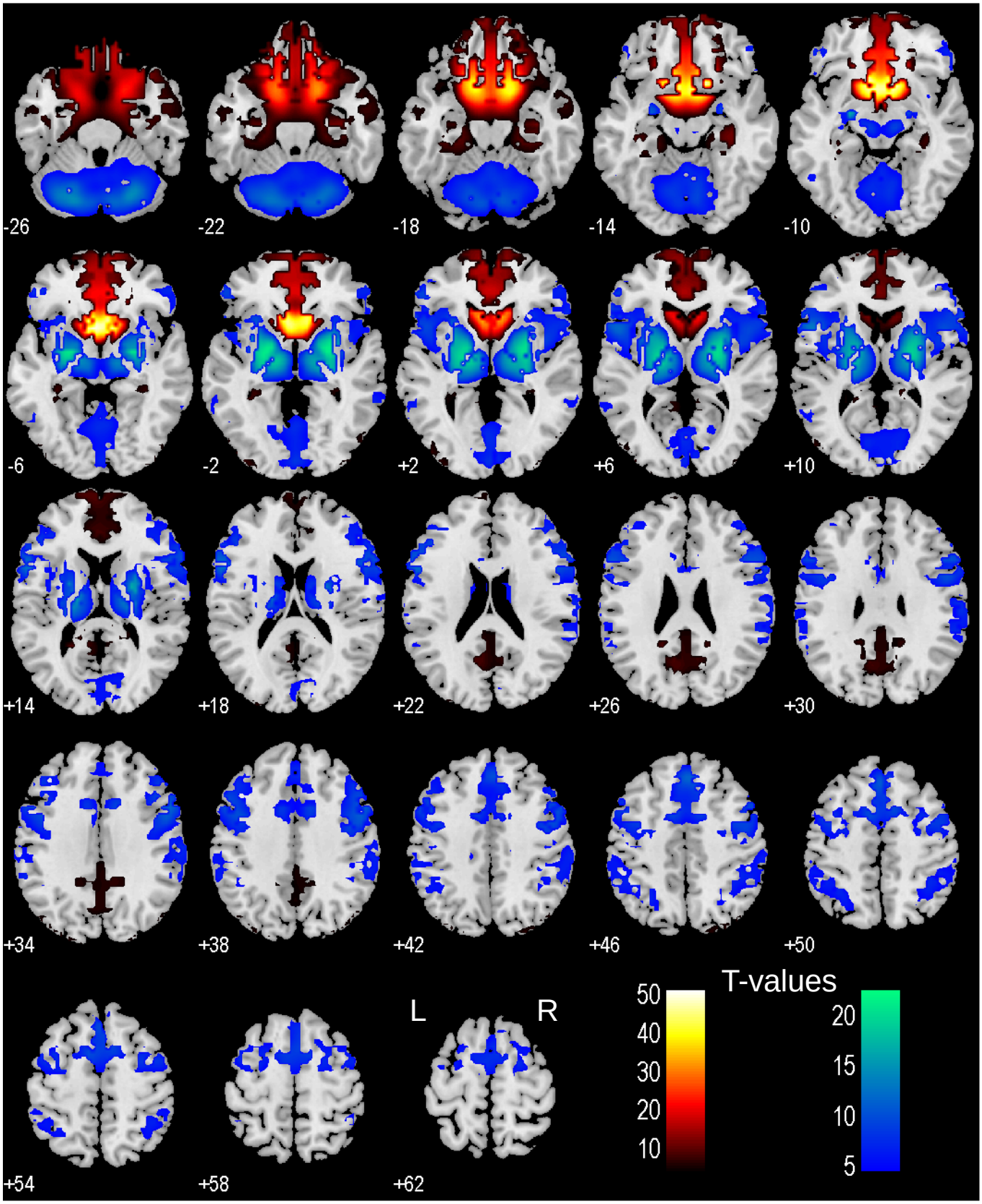
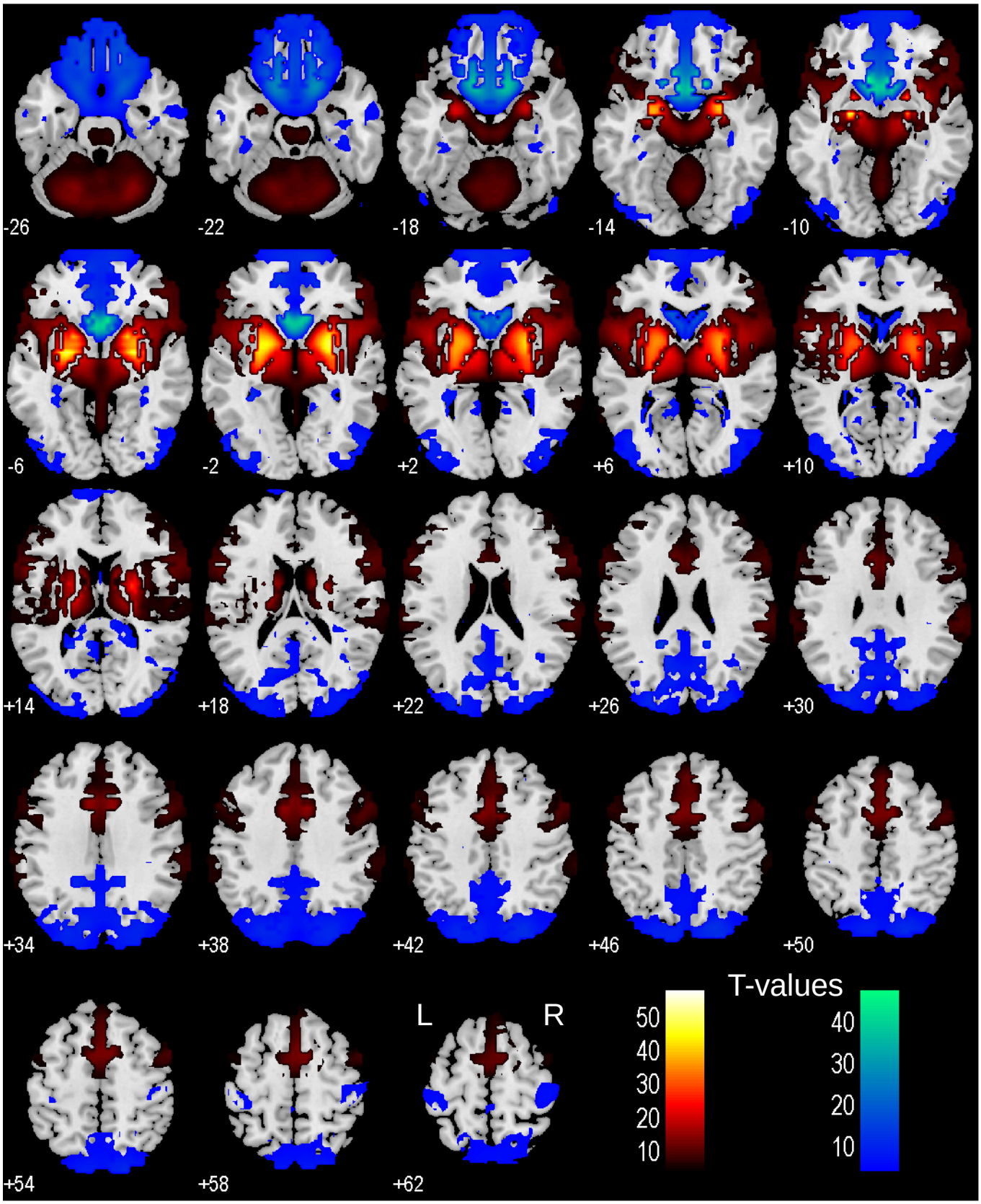


Supplementary Figure S1: Connectivity of the BNM; time series orthogonalized with respect to VS.



Supplementary Figure S2: Connectivity of the VS; time series orthogonalized with respect to the BNM.



Supplementary Figure S3: Differences in Connectivity: BNM > VS (warm); VS > BNM (cool); time series orthogonalized.

Supplementary Table S1: Regions showing greater connectivity with basal nucleus of Meynert (BNM) as compared to ventral striatum (VS); paired t-test, n=223. Time series of seed regions were orthogonalized with respect to each other.

volume (mm^3)	peak voxel (Z)	MNI coordinate x	y	z	side	identified brain region	connectivity BNM	VS
446823	inf	24	-1	-8	R	Putamen/Pallidum/Thalamus/Insula/TP/lOFC	++/+	−−/−
	inf	-21	-1	-8	L	Putamen/Pallidum/Thalamus/Insula/TP/lOFC	++/+	−−/−
	inf	12	-7	1	R/L	Amygdala/Midbrain/Parahippocampal G	++/+	+/−
	inf	9	14	37	R	ACC/SMA/pre-SMA	+	−
	inf	-9	14	37	L	ACC/SMA/pre-SMA	+	−
	inf	-63	-28	25	L	Temporo-parietal junction	+	−
1404	6.60	-60	-55	1	L	Middle temporal G	+	−
1890	6.05	63	-46	1	R	Middle temporal G	+	−
702	6.04	-27	-10	-41	L	Cerebellum	+	−
135	5.04	27	-13	-41	R	Cerebellum	+	−

Note: inf: infinity; R: right; L: left; TP: temporal pole; lOFC: lateral orbitofrontal cortex; G: gyrus; ACC: anterior cingulate cortex; SMA: supplementary motor area; DLPFC: dorsolateral prefrontal cortex; +/- indicates positive and negative connectivity (with ++/-- for stronger connectivity), and ~ indicates no significant connectivity at one-sample t test, $p<0.05$, FWE corrected.

Supplementary Table S2. Regions showing greater connectivity with ventral striatum (VS) as compared to the basal nucleus of Meynert (BNM); paired t-test, n=223. Time series of seed regions were orthogonalized with respect to each other.

volume	peak voxel	MNI coordinate			side	identified brain region	connectivity	
mm^3	Z	x	y	z			BNM	VS
401868	inf	6	14	-5	R	ventral Caudate/mOFC/Subcallosal G/Rectus G/Olfactory S	—	++/+
	inf	-6	14	-5	L	ventral Caudate/mOFC/Subcallosal G/Rectus G/Olfactory S	—	++/+
	inf	-18	-49	22	L	Posterior Cingulate G/Cuneus/Precuneus	--/-	~/+
	inf	18	-46	25	R	Posterior Cingulate G/Cuneus/Precuneus	--/-	~/+
4104	6.84	42	-28	64	R	Postcentral G	—	+/~
3510	6.07	-36	-31	64	L	Postcentral G	—	+/~

Note: inf: infinity; R: right; L: left; mOFC: medial orbitofrontal cortex; G: gyrus; S: sulcus; pCG: posterior cingulate gyrus; +/- indicates positive and negative connectivity (with ++/-- indicating stronger connectivity), and ~ indicates no significant connectivity at one-sample t test, $p<0.05$ FWE corrected.