

**Table S1.** Significant differences in seed-based resting-state functional connectivity (RSFC) for meal timing (Nm vs. Lm), sleep timing (Ns vs. Ls), and sleep-by-meal interactions. Reported effects are significant controlling for family-wise error (FWE) rate at  $\alpha=0.05$ , except for L amygdala and R amygdala (denoted with \*) where effects are significant controlling for FWE rate at  $\alpha=0.005$ , a threshold equivalent to Bonferroni correction for the number of seeds examined.

	Seed center (MNI)		Cluster					
			# voxels	Center of gravity (MNI)			p-value	Major structures associated with the cluster
				x	y	z		
Contrast								
Main effect of sleep: late > normal								
	L Insula (-42, -10, 4)		27	5.2	-36.8	67.4	0.038	R somatosensory cortex, post-central gyrus, precuneus
	L Central opercular cortex (-52, 6, -2)		26	-38.1	-21.5	51.2	0.030	L somatosensory cortex, pre-/post-central gyrus
Main effect of meal: normal > late								
	L Central opercular cortex (-52, 6, -2)		7	13.7	-43.1	58.9	0.037	R post-central gyrus, precuneus
Main effect of meal: late > normal								
	Midcingulate cortex (4, -8, 42)		103	-40.2	18.8	47.6	0.030	L middle frontal gyrus
			40	-10.4	29.3	41.6	0.041	L superior frontal gyrus, paracingulate gyrus
			30	-20.7	36.7	47.4	0.045	L superior frontal gyrus
			24	-40.9	8.9	20.9	0.043	L inferior frontal gyrus
			6	-15.3	37.0	52.7	0.049	L frontal pole
	L Amygdala* (-23, -4, -19)		400	-0.1	40.4	-3.2	0.002	L frontal medial cortex, paracingulate gyrus
			320	-48.6	7.9	-28.2	0.001	L temporal pole
			191	27.3	-11.5	-21.6	0.002	R hippocampus, temporal fusiform cortex (posterior)
			139	28.5	-30.5	-15.6	0.003	R parahippocampal gyrus, hippocampus

			91	-26.0	8.9	-11.0	0.003	L putamen
			71	61.6	-19.4	-19.1	0.003	R inferior temporal gyrus (posterior)
			39	-5.7	-17.0	0.2	0.004	L thalamus
			35	-22.4	-20.1	-20.2	0.004	L parahippocampal gyrus
			13	30.0	15.1	-18.2	0.004	R frontal orbital cortex, insula
			13	48.6	3.7	-23.4	0.004	R superior temporal gyrus
	Precuneus, posterior cingulate cortex (-5, -49, 40)		84	-33.0	-2.5	0.6	0.029	L putamen
			15	-48.1	-9.9	14.7	0.044	L central opercular cortex
	Pons (-10, -18, -28)		41	9.9	-46.1	-17.3	0.044	R cerebellum
			4	-3.0	-43.5	-18.5	0.048	L brainstem
	R Amygdala* (23, -4, -19)		55	21.0	-10.5	-22.7	0.004	R hippocampus, parahippocampal gyrus
			48	16.1	-36.6	-5.8	0.004	R parahippocampal gyrus, lingual gyrus
			39	-6.56	-64.3	-13.8	0.004	L cerebellum
			33	-23.7	-11.5	-21.2	0.004	L hippocampus
			26	10.1	-59.4	-14.2	0.004	R cerebellum
			19	-46.6	2.2	-27.1	0.004	L temporal lobe
			18	25.4	-48.9	-0.9	0.004	R lingual gyrus
			15	29.2	-30	-12.5	0.004	R parahippocampal gyrus, temporal fusiform cortex
	R Superior temporal gyrus (56, -32, 2)		654	-5.8	-15.5	7.9	0.026	L thalamus
			24	22.2	-30.7	-7.1	0.044	R hippocampus
			6	4.7	34.7	-18.3	0.049	R frontal medial cortex
			4	-2.5	35.5	-19.5	0.049	L frontal medial cortex
	L ventral striatum (inferior) (-9, 9, -8)		208	34.7	-63.2	-3.6	0.025	R temporal occipital fusiform gyrus
			4	50.5	-68.5	-1.0	0.049	R lateral occipital cortex
Sleep-by-meal interaction								
	Frontal pole (10, 62, -8)		382	32.2	-71.5	-12.8	0.030	R temporal occipital fusiform gyrus
			209	18.4	-53.8	-6.9	0.031	R lingual gyrus
			204	61.6	-30.5	10.7	0.033	R superior temporal gyrus, middle temporal gyrus
			160	44.9	-77.0	2.3	0.039	R lateral occipital cortex
			72	47.5	-47.7	11.6	0.044	R middle temporal gyrus
			23	64.0	-15.7	7.9	0.046	R planum temporale
			5	55.6	-16.8	2.0	0.049	R planum temporale
			3	-30.0	-72.0	-12.0	0.048	L occipital fusiform gyrus
	R Superior temporal gyrus (56, -32, 2)		454	54.0	-56.2	-0.9	0.023	R occipital fusiform gyrus
			7	60.9	-52.3	-10.3	0.049	R interior temporal gyrus

L, left hemisphere; MNI, Montreal Neurological Institute; R, right hemisphere