Supplementary Information

Supplementary Method 1. Assignment expressions of subdivided white matter fascicles of the olfactory pathway

Supplementary Table 1. Relationship between streamlines of subdivided olfactory fascicles and olfactory ratings

Supplementary Table 2. Relationship between olfactory fascicle streamlines and olfactory ratings for five odorants

Supplementary Method 1. Assignment expressions of subdivided white matter fascicles of the olfactory pathway

Left olfactory amygdala fascicle = endpoints_in(Left piriform cortex) and Left amygdala not in Right hemisphere not in Left medial parietal cortex not in Left frontal motor cortex not in Left occipital cortex not in Left visuotemporal cortex not in Left auditory cortex not in Left cingulate cortex
Left olfactory hippocampus fascicle = endpoints_in(Left piriform cortex) and Left hippocampus not in Right hemisphere not in Left medial parietal cortex not in Left frontal motor cortex not in Left occipital cortex not in Left visuotemporal cortex not in Left auditory cortex not in Left cingulate cortex
Left olfactory thalamus fascicle = endpoints_in(Left piriform cortex) and Left thalamus not in Right hemisphere not in Left medial parietal cortex not in Left frontal motor cortex not in Left occipital cortex not in Left visuotemporal cortex not in Left auditory cortex not in Left cingulate cortex
Left olfactory insula fascicle = endpoints_in(Left piriform cortex) and Left insula not in Right hemisphere not in Left medial parietal cortex not in Left frontal motor cortex not in Left occipital cortex not in Left visuotemporal cortex not in Left auditory cortex not in Left cingulate cortex
Left olfactory OFC fascicle = endpoints_in(Left piriform cortex) and Left OFC not in Right hemisphere not in Left medial parietal cortex not in Left frontal motor cortex not in Left occipital cortex not in Left visuotemporal cortex not in Left auditory cortex not in Left cingulate cortex

Right Olfactory amygdala fascicle = endpoints_in(Right piriform cortex) and Right amygdala not in Left hemisphere not in Right medial parietal cortex not in Right frontal motor cortex not in Right occipital cortex not in Right visuotemporal cortex not in Right auditory cortex not in Right cingulate cortex
Right Olfactory hippocampus fascicle = endpoints_in(Right piriform cortex) and Right hippocampus not in Left hemisphere not in Right medial parietal cortex not in Right frontal motor cortex not in Right occipital cortex not in Right visuotemporal cortex not in Right auditory cortex not in Right cingulate cortex
Right olfactory thalamus fascicle = endpoints_in(Right piriform cortex) and Right thalamus not in Left hemisphere not in Right medial parietal cortex not in Right frontal motor cortex not in Right occipital cortex not in Right visuotemporal cortex not in Right auditory cortex not in Right cingulate cortex
Right olfactory insula fascicle = endpoints_in(Right piriform cortex) and Right insula not in Left hemisphere not in Right medial parietal cortex not in Right frontal motor cortex not in Right occipital cortex not in Right visuotemporal cortex not in Right auditory cortex not in Right cingulate cortex

Right olfactory OFC fascicle = endpoints_in(Right piriform cortex) and Right OFC not in Left hemisphere not in Right medial parietal cortex not in Right frontal motor cortex not in Right occipital cortex not in Right visuotemporal cortex not in Right auditory cortex not in Right cingulate cortex

Supplementary Table 1. Relationship between streamlines of subdivided olfactory fascicles and olfactory ratings

	LI of olfactory amygdala fascicle		LI of olfactory hippocampus fascicle		LI of olfactory thalamus fascicle		LI of olfactory insula fascicle		LI of olfactory OFC fascicle	
	r	*p*	*r*	*p*	*r*	*p*	*r*	*p*	*r*	*p*
Mean recognition threshold	-0.075	0.603	0.237	0.147	0.183	0.393	-0.399	0.002*	-0.218	0.097

Abbreviation: LI, Laterality Index

* denotes statistical significance (after Bonferroni correction in Post-hoc analyses)

Supplementary Table 2. Relationship between olfactory fascicle streamlines and olfactory ratings for five odorants

	LI of total olfactory fascicle	
	r	*p*
Odor A (rose) recognition threshold	-0.127	0.337
Odor B (caramel) recognition threshold	-0.272	0.037
Odor C (rotten food or sweaty clothes) recognition threshold	-0.184	0.163
Odor D (sweet fruit) recognition threshold	-0.256	0.050
Odor E (fecal material) recognition threshold	-0.344	0.008*

Abbreviation: LI, Laterality Index

* denotes statistical significance (after Bonferroni correction in Post-hoc analyses)