

Table S1. Group-differences in [¹¹C]carfentanil BP_{ND} and [¹⁸F]fluorodopa K_i values (ROI-analysis). All regions included in the primary ROI analysis are presented. Regions with a significance level of $P < 0.01$ are presented in Table 3.

Tracer	Region	HC	PG	BED	F-value	P-value
					One-way ANOVA	One-way ANOVA
[¹¹ C]carfentanil	Fusiform gyrus	0.499 (0.099)	0.464 (0.103)	0.361 (0.073)	5.0	0.012
	Caudal anterior cingulate cortex	1.16 (0.19)	1.08 (0.20)	0.884 (0.176)	5.0	0.012
	Rostral middle frontal gyrus	0.858 (0.158)	0.874 (0.195)	0.649 (0.145)	4.6	0.017
	Pars triangularis of VPC	0.783 (0.140)	0.765 (0.199)	0.579 (0.090)	4.3	0.022
	Medial temporal lobe ¹	0.490 (0.093)	0.463 (0.109)	0.359 (0.092)	4.3	0.022
	Temporal pole	0.799 (0.140)	0.817 (0.168)	0.617 (0.173)	4.2	0.023
	Pars opercularis of VPC	0.884 (0.154)	0.837 (0.182)	0.685 (0.111)	3.8	0.031
	Inferior temporal gyrus	0.768 (0.108)	0.737 (0.144)	0.614 (0.123)	3.7	0.035
	Orbitofrontal cortex ²	0.860 (0.142)	0.863 (0.189)	0.681 (0.129)	3.6	0.038
	Lateral temporal lobe ³	0.726 (0.095)	0.709 (0.133)	0.590 (0.108)	3.6	0.037
	Insula	0.904 (0.126)	0.850 (0.144)	0.760 (0.097)	3.1	0.060
	Middle temporal gyrus	0.791 (0.108)	0.774 (0.146)	0.656 (0.129)	2.9	0.070
	Superior temporal gyrus	0.655 (0.099)	0.654 (0.128)	0.545 (0.109)	2.7	0.084
	Precuneus	0.507 (0.100)	0.490 (0.108)	0.401 (0.103)	2.6	0.085
	Superior frontal gyrus	0.828 (0.175)	0.836 (0.196)	0.658 (0.162)	2.6	0.087
	Transverse temporal cortex	0.354 (0.147)	0.327 (0.137)	1.06 (2.24)	1.7	0.20
	Medial orbitofrontal cortex	0.847 (0.174)	0.880 (0.205)	0.731 (0.148)	1.6	0.22
	Precentral gyrus	0.543 (0.107)	0.538 (0.129)	0.452 (0.109)	1.6	0.21

	Rostral anterior cingulate cortex	1.05 (0.22)	1.03 (0.19)	0.887 (0.208)	1.6	0.21
	Banks of superior temporal sulcus	0.721 (0.0965)	0.714 (0.141)	0.628 (0.114)	1.6	0.21
	Putamen	1.19 (0.15)	1.15 (0.23)	1.05 (0.17)	1.4	0.25
	Amygdala	1.34 (0.32)	1.32 (0.29)	1.16 (0.17)	1.1	0.35
	Nucleus caudatus	1.17 (0.21)	1.05 (0.29)	1.12 (0.21)	1.0	0.38
	Caudal middle frontal gyrus	0.733 (0.135)	0.738 (0.172)	0.657 (0.155)	0.74	0.48
	Postcentral gyrus	0.334 (0.097)	0.339 (0.109)	0.288 (0.055)	0.74	0.49
	Globus pallidus	0.517 (0.240)	0.469 (0.229)	0.588 (0.109)	0.72	0.49
	Paracentral gyrus	0.423 (0.116)	0.427 (0.115)	0.378 (0.126)	0.45	0.64
	Supramarginal gyrus	0.740 (0.111)	0.747 (0.156)	0.697 (0.144)	0.35	0.71
	Superior parietal cortex	0.288 (0.084)	0.311 (0.106)	0.291 (0.086)	0.26	0.77
	Entorhinal cortex	0.371 (0.157)	0.359 (0.185)	0.375 (0.192)	0.029	0.97
	Inferior parietal cortex	0.553 (0.080)	0.561 (0.127)	0.554 (0.135)	0.021	0.98
¹⁸ F]fluorodopa	Putamen	0.0133 (0.0015)	0.0137 (0.0019)	0.0113 (0.0032)	3.4	0.044
	Nucleus caudatus	0.0119 (0.0013)	0.0120 (0.0020)	0.0102 (0.0032)	2.0	0.15
	Globus pallidus	0.00601 (0.0013)	0.00630 (0.0015)	0.00537 (0.0011)	1.0	0.36
	Thalamus	0.00180 (0.00038)	0.00162 (0.00041)	0.00167 (0.00027)	0.9	0.42
	Hippocampus	0.00264 (0.00081)	0.00277 (0.00045)	0.00238 (0.00053)	0.79	0.46
	Amygdala	0.00510 (0.00088)	0.00501 (0.00090)	0.00486 (0.00134)	0.14	0.87

¹. ROI formed by fusing entorhinal cortex, fusiform gyrus, parahippocampal gyrus and temporal pole.

². ROI formed by fusing lateral orbitofrontal cortex and medial orbitofrontal cortex.

³. ROI formed by fusing banks of superior temporal sulcus, inferior temporal gyrus, middle temporal gyrus, superior temporal gyrus and transverse temporal cortex.

VPC = ventrolateral prefrontal cortex