

Supplementary Information

Evaluation of the effects of developmental trauma on neurotransmitter systems using functional molecular imaging

Namhun Lee¹, Se Jong Oh¹, Jang Woo Park², Kyung Rok Nam¹, Kyung Jun Kang¹, Kyo Chul Lee¹, Yong Jin Lee¹, June-Seek Choi³, Jeong-Ho Seok^{4*} and Jae Yong Choi^{1,5*}

¹Division of Applied RI, Korea Institute of Radiological and Medical Sciences, Seoul, Korea

²Radiological & Medico-Oncological Sciences, University of Science and Technology, Daejeon, Korea

³Medical Device-Bio Research institute, Korea Testing & Research Institute, Gyeonggi-do, Korea

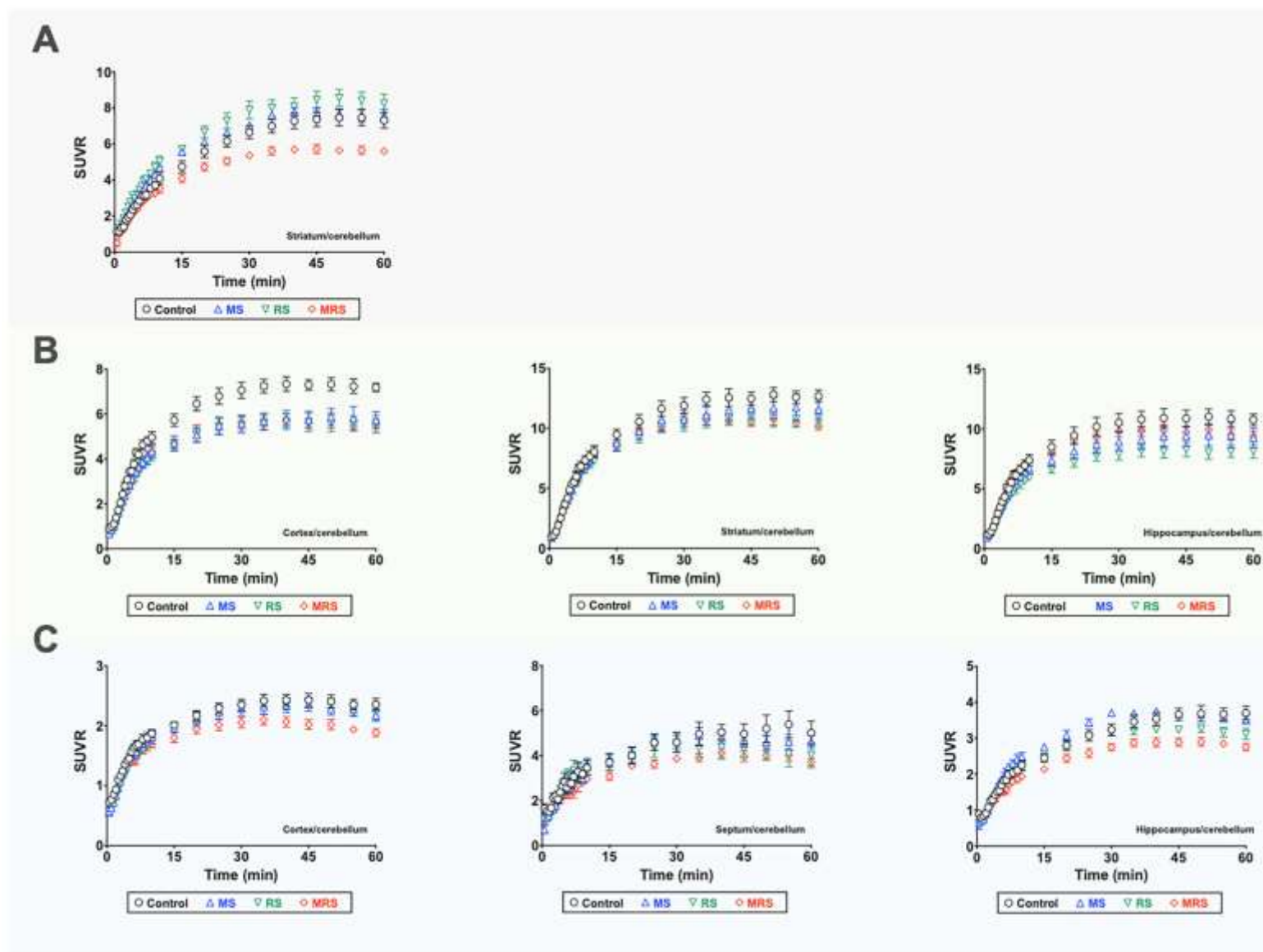


Figure S1. TACs for the cerebellum of the ^{18}F -FP-CIT (A) and ^{18}F -FPEB (B). Data were expressed as the mean $\pm$ the SD (n = 5).

Table S1. Comparison of the regional brain uptake value ratios in neuroPET

Radiotracers	Group	Brain uptake value ratio (SUVr)			
		Cortex/ cerebellum	Striatum/ cerebellum	Hippocampus/ cerebellum	Septum/ Cerebellum
^[18 F] fallypride for D2R	Con	–	7.35 ± 0.33	–	–
	MS	–	7.56 ± 0.97	–	–
	RS	–	8.24 ± 0.38	–	–
	MRS	–	5.66 ± 0.27	–	–
^[18 F] FPEB for mGluR5	Con	7.46 ± 0.31	13.10 ± 0.61	11.26 ± 0.69	–
	MS	5.94 ± 0.44*	11.58 ± 0.90	9.46 ± 0.58	–
	RS	5.53 ± 0.22***	10.90 ± 0.44*	8.43 ± 0.38**	–
	MRS	5.47 ± 0.31***	10.00 ± 0.56**	9.27 ± 0.26*	–
^[18 F] Mefway for 5-HT _{1A} R	Con	2.62 ± 0.08	–	5.09 ± 0.17	3.76 ± 0.33
	MS	2.37 ± 0.03*	–	4.75 ± 0.16	3.33 ± 0.12
	RS	2.39 ± 0.05*	–	4.44 ± 0.15*	3.16 ± 0.31
	MRS	2.03 ± 0.09***	–	3.71 ± 0.19***	2.81 ± 0.17*

Data are presented as mean ± SEM (n = 5). * $p < 0.05$, ** $p < 0.01$, *** $p < 0.01$ compared to the control group.