

Figure e-1.

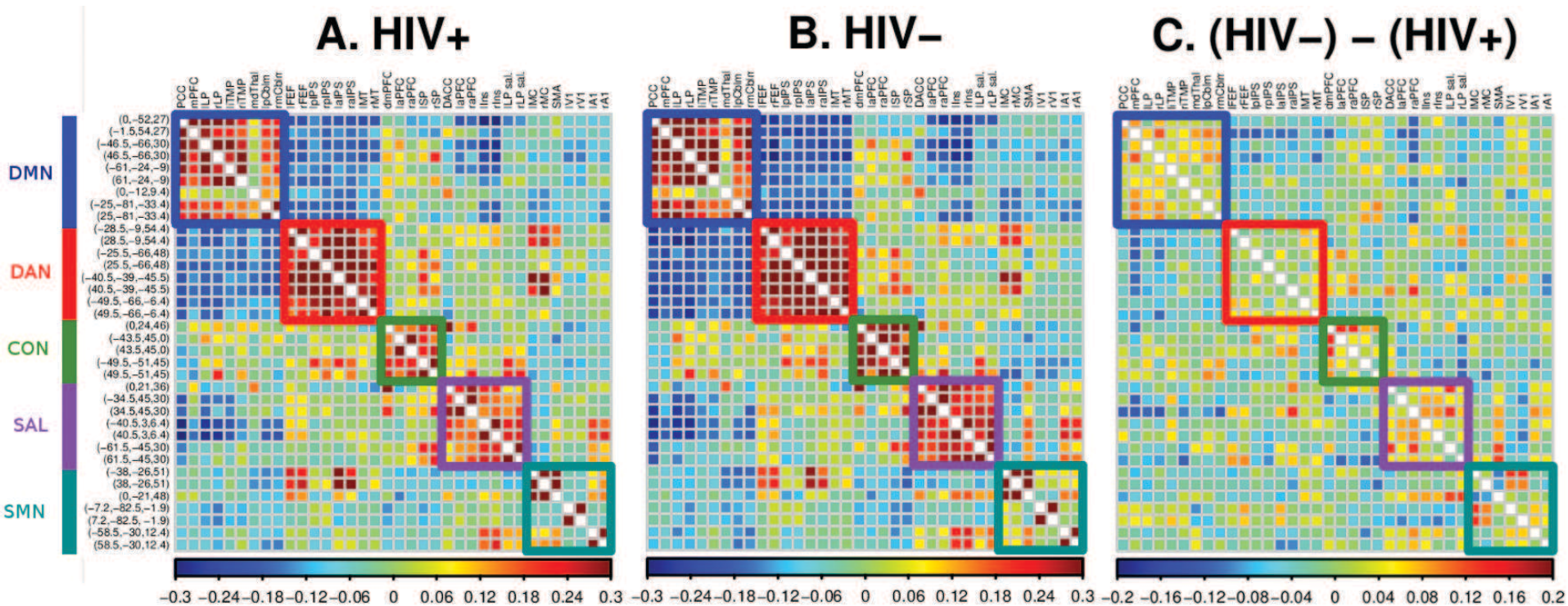


Figure e-1: [Title: Whole-brain correlation-matrix analysis] Functional correlation matrices for 36 canonical regions covering five major networks (blue: default mode network (DMN), red: dorsal attention network (DAN), green: executive-control (CON), purple: salience (SAL), and turquoise: sensory motor network (SMN) for a) HIV-, b) HIV+, and c) difference of HIV- and HIV+ subjects. Decreases in resting state functional connections were seen primarily in intra-network correlations which are situated along the diagonal and demarcated by boxes indicating specific network membership. Certain inter-network correlations (arrayed on the off-diagonal) were also seen to be affected by HIV.

**Table e-1: Changes in HIV-affected rs-fcMRI networks with respect to clinical, laboratory and neuropsychological markers of HIV (N=52)**

Intra-network composites			Inter-network composites		
DMN Composite	F(4,47)	p-value	DMN-DAN Composite	F(4,47)	p-value
HIV Log VL	0.64	0.43	HIV Log VL	0.40	0.53
CD4+ Count	0.02	0.89	CD4+ Count	1.76	0.19
Degree of impairment <sup>1</sup>	0.26	0.62	Degree of impairment <sup>1</sup>	0.10	0.75
Presence of HAART <sup>2</sup>	0.01	0.93	Presence of HAART <sup>2</sup>	0.04	0.84
Substance <sup>3</sup>	1.72	0.20	Substance <sup>3</sup>	2.60	0.11
CON Composite	F(4,47)	p-value	CON-SMN Composite	F(4,47)	p-value
HIV Log VL	0.39	0.53	HIV Log VL	0.19	0.67
CD4+ Count	0.01	0.94	CD4+ Count	0.14	0.71
Degree of impairment <sup>1</sup>	2.64	0.11	Degree of impairment <sup>1</sup>	0.47	0.50
Presence of HAART <sup>2</sup>	0.06	0.82	Presence of HAART <sup>2</sup>	0.97	0.33
Substance <sup>3</sup>	0.12	0.73	Substance <sup>3</sup>	1.40	0.24
SAL Composite	F(4,47)	p-value	CON-SAL Composite	F(4,47)	p-value
HIV Log VL	0.05	0.83	HIV Log VL	2.62	0.11
CD4+ Count	1.56	0.22	CD4+ Count	1.67	0.20
Degree of impairment <sup>1</sup>	0.07	0.79	Degree of impairment <sup>1</sup>	1.05	0.31
Presence of HAART <sup>2</sup>	0.03	0.87	Presence of HAART <sup>2</sup>	0.92	0.34
Substance <sup>3</sup>	0.71	0.40	Substance <sup>3</sup>	0.33	0.57
			DAN-SAL Composite	F(4,47)	p-value
			HIV Log VL	0.34	0.57
			CD4+ Count	0.13	0.72
			Degree of impairment <sup>1</sup>	0.12	0.73
			Presence of HAART <sup>2</sup>	0.04	0.85
			Substance <sup>3</sup>	0.36	0.55

<sup>1</sup> Impaired N=12; Unimpaired N=40

<sup>2</sup> HAART+ N=23; HAART- N=29

<sup>3</sup> Substance+ N=13; Substance-N=35

No effects of neuropsychological or laboratory measures on rs-fcMRI were observed