

Supplemental Table 1. Exact p values for all posthoc statistical comparisons

FIGURE #	TEST	COMPARISON	P VALUE
Fig 1b	two-way ANOVA	1WD active vs 45WD active	0.001
		1WD inactive vs 45 WD inactive	0.5304
Fig 1h	t-test	saline 1WD vs cocaine 1WD	0.0412
	one-way ANOVA	saline 45WD vs Cocaine 45WD	1
		saline 45WD vs Cocaine 45WD naspm	0.0168
		Cocaine 45WD vs Cocaine 45WD naspm	0.0023
Fig 1m	one-way ANOVA	Saline re-exp vs. Cocaine 45WD	1
		Saline re-exp vs. Cocaine 45WD naspm	0.023
		Saline re-exp vs. Cocaine re-exp	0.0075
		Saline re-exp vs. Cocaine re-exp naspm	0.0362
		Cocaine 45WD vs. Cocaine 45WD naspm	0.001
		Cocaine 45WD vs. Cocaine re-exp	<0.0001
		Cocaine 45WD vs. Cocaine Re-exp naspm	0.0016
		Cocaine 45WD naspm vs. Cocaine re-exp	1
		Cocaine 45WD naspm vs. Cocaine re-exp naspm	1
		Cocaine re-exp vs. Cocaine Re-exp naspm	1
Fig 1n	two-way RM ANOVA	cocaine vs saline 1-7min for each time	1
		cocaine vs saline 15-24min for each time	<0.0001
		cocaine vs saline 32-41min for each time	1
Fig 1o	two-way RM ANOVA	saline 45WD vs Cocaine 45 WD 1-31 min for each time	1
		saline 45WD vs Cocaine 45 WD 32 min	0.1917
		saline 45WD vs Cocaine 45 WD 33 min	0.2829
		saline 45WD vs Cocaine 45 WD 34-41 min for each time	1
		cocaine 45WD vs cocaine re-exp 1-31 min for each time	1
		cocaine45WD vs Cocaine re-exp WD 32 min	0.177
		cocaine45WD vs Cocaine re-exp WD 33 min	0.2537
		cocaine45WD vs Cocaine re-exp WD 34-41 min for each time	1
		saline 45WD vs cocaine re-exposure 1-41 min for each time	1
		Fig 1q Left	two-way ANOVA
(-) 70mV saline vs cocaine re-exp	1		
(-) 70mV cocaine vs cocaine re-exp	1		
0mV saline vs cocaine	1		
0mV saline vs cocaine re-exp	1		
0mV cocaine vs cocaine re-exp	1		

FIGURE #	TEST	COMPARISON	P VALUE
		50mV saline vs cocaine	<0.0001
		50mV saline vs cocaine re-exp	0.2132
		50mV cocaine vs cocaine re-exp	0.0142
Fig 1q Right	one-way ANOVA	saline vs cocaine	0.0104
		saline vs cocaine re-exp	1
		cocaine vs cocaine re-exp	0.0196
Fig 1v	one-way ANOVA	10 min vs. 2hr	1
		10 min vs. 4hr	1
		10 min vs. 6hr	0.0186
		10 min vs. 6hr naspm	1
		2hr vs. 4hr	1
		2hr vs. 6hr	0.0393
		2hr vs. 6hr naspm	1
		4hr vs. 6hr	0.9214
		4hr vs. 6hr naspm	0.6502
		6hr vs. 6hr naspm	0.0062
Fig 2d	one-way ANOVA	Saline vs. Cocaine 45w/d	0.0065
		Saline vs. Cocaine re-exp	0.0113
		Saline vs. Cocaine 6hr post cue	0.0309
		Cocaine 45w/d vs. Cocaine re-exp	1
		Cocaine 45w/d vs. Cocaine 6hr post cue	1
		Cocaine re-exp vs. Cocaine 6hr post cue	1
Fig 2e	one-way ANOVA	Saline vs. Cocaine 45w/d	0.0009
		Saline vs. Cocaine re-exp	1
		Saline vs. Cocaine 6hr post cue	0.0002
		Cocaine 45w/d vs. Cocaine re-exp	0.0003
		Cocaine 45w/d vs. Cocaine 6hr post cue	0.878
		Cocaine re-exp vs. Cocaine 6hr post cue	<0.0001
Fig 2f	one-way ANOVA	Saline vs. Cocaine 45w/d	0.7114
		Saline vs. Cocaine re-exp	0.0025
		Saline vs. Cocaine 6hr post cue	1
		Cocaine 45w/d vs. Cocaine re-exp	0.0341
		Cocaine 45w/d vs. Cocaine 6hr post cue	1
		Cocaine re-exp vs. Cocaine 6hr post cue	0.0145
Fig 2g	one-way ANOVA	Saline vs. Cocaine 45w/d	0.0057
		Saline vs. Cocaine re-exp	0.0029
		Saline vs. Cocaine 6hr post cue	1
		Cocaine 45w/d vs. Cocaine re-exp	1

FIGURE #	TEST	COMPARISON	P VALUE
		Cocaine 45w/d vs. Cocaine 6hr post cue	0.1154
		Cocaine re-exp vs. Cocaine 6hr post cue	0.0614
Fig 2h Right	one-way ANOVA	Saline vs. Cocaine 45w/d	0.0199
		Saline vs. Cocaine re-exp	1
		Saline vs. Cocaine 6hr post cue	0.0092
		Cocaine 45w/d vs. Cocaine re-exp	0.0003
		Cocaine 45w/d vs. Cocaine 6hr post cue	1
		Cocaine re-exp vs. Cocaine 6hr post cue	0.0003
Fig 3f	one-way ANOVA	saline AGL vs. saline TGL	1
		saline AGL vs. cocaine AGL	1
		saline AGL vs. cocaine AGL nasm	0.0002
		saline AGL vs. cocaine TGL	0.0002
		saline AGL vs. cocaine TGL nasm	0.0106
		saline TGL vs. cocaine AGL	1
		saline TGL vs. cocaine AGL nasm	0.0003
		saline TGL vs. cocaine TGL	0.0002
		saline TGL vs. cocaine TGL nasm	0.0139
		cocaine AGL vs. cocaine AGL nasm	0.001
		cocaine AGL vs. cocaine TGL	0.0007
		cocaine AGL vs. cocaine TGL nasm	0.0406
		cocaine AGL nasm vs. cocaine TGL	1
		cocaine AGL nasm vs. cocaine TGL nasm	1
cocaine TGL vs. cocaine TGL nasm	1		
Fig 3h	one-way ANOVA	Saline AGL vs. Saline TGL	1
		Saline AGL vs. Cocaine AGL	0.0003
		Saline AGL vs. Cocaine TGL	0.0002
		Saline TGL vs. Cocaine AGL	0.0001
		Saline TGL vs. Cocaine TGL	<0.0001
		Cocaine AGL vs. Cocaine TGL	1
Fig 3i	one-way ANOVA	Saline AGL vs. Saline TGL	1
		Saline AGL vs. Cocaine AGL	<0.0001
		Saline AGL vs. Cocaine TGL	1
		Saline TGL vs. Cocaine AGL	<0.0001
		Saline TGL vs. Cocaine TGL	0.5263
		Cocaine AGL vs. Cocaine TGL	<0.0001
Fig 3j	one-way ANOVA	Saline AGL vs. Saline TGL	1
		Saline AGL vs. Cocaine AGL	0.6523
		Saline AGL vs. Cocaine TGL	<0.0001

FIGURE #	TEST	COMPARISON	P VALUE
		Saline TGL vs. Cocaine AGL	0.5058
		Saline TGL vs. Cocaine TGL	<0.0001
		Cocaine AGL vs. Cocaine TGL	<0.0001
Fig 3k	one-way ANOVA	Saline AGL vs. Saline TGL	1
		Saline AGL vs. Cocaine AGL	0.0787
		Saline AGL vs. Cocaine TGL	1
		Saline TGL vs. Cocaine AGL	0.0125
		Saline TGL vs. Cocaine TGL	0.6761
		Cocaine AGL vs. Cocaine TGL	0.1673
Fig 3l	one-way ANOVA	Saline AGL vs. Saline TGL	1
		Saline AGL vs. Cocaine AGL	0.0042
		Saline AGL vs. Cocaine TGL	1
		Saline TGL vs. Cocaine AGL	0.0035
		Saline TGL vs. Cocaine TGL	1
		Cocaine AGL vs. Cocaine TGL	0.0005
Fig 3m	two-way RM ANOVA	AGL active vs TGL active	<0.0001
		AGL inactive vs TGL inactive	0.1648
Fig 3n	two-way RM ANOVA	AGL active vs TGL active	1
		AGL inactive vs TGL inactive	1
Fig 4a	one-way ANOVA	saline withdrawal vs. saline reactivated	1
		saline withdrawal vs. cocaine withdrawal	1
		saline withdrawal vs. cocaine reactivated-10 min	0.0123
		saline withdrawal vs. cocaine 75 post react	0.0021
		saline withdrawal vs. cocaine reactivated 6 hr	1
		saline withdrawal vs. cocaine reactivated 24 hr	1
		saline reactivated vs. cocaine withdrawal	1
		saline reactivated vs. cocaine reactivated-10 min	0.0383
		saline reactivated vs. cocaine 75 post react	0.0075
		saline reactivated vs. cocaine reactivated 6 hr	1
		saline reactivated vs. cocaine reactivated 24 hr	1
		cocaine withdrawal vs. cocaine reactivated-10 min	0.0136
		cocaine withdrawal vs. cocaine 75 post react	0.0021
		cocaine withdrawal vs. cocaine reactivated 6 hr	1
		cocaine withdrawal vs. cocaine reactivated 24 hr	1
		cocaine reactivated-10 min vs. cocaine 75 post react	1
cocaine reactivated-10 min vs. cocaine reactivated 6 hr	0.0004		
cocaine reactivated-10 min vs. cocaine reactivated 24 hr	0.0179		

FIGURE #	TEST	COMPARISON	P VALUE
		cocaine 75 post react vs. cocaine reactivated 6 hr	<0.0001
		cocaine 75 post react vs. cocaine reactivated 24 hr	0.0032
		cocaine reactivated 6 hr vs. cocaine reactivated 24 hr	1
Fig 4h	one-way ANOVA	saline dnRac1 vs. cocaine non-trans	1
		saline dnRac vs. cocaine non-trans naspm	0.0006
		saline dnRac1 vs. cocaine dnRac1	<0.0001
		saline dnRac1 vs. cocaine dnRac1 naspm	0.0013
		cocaine non-trans vs. cocaine non-trans naspm	0.0007
		cocaine non-trans vs. cocaine dnRac1	<0.0001
		cocaine non-trans vs. cocaine dnRac1 naspm	0.0014
		cocaine non-trans naspm vs. cocaine dnRac	1
		cocaine non-trans naspm vs. cocaine dnRac1 naspm	1
		cocaine dnRac1 vs. cocaine dnRac1 naspm	1
Fig 4o	one-way ANOVA	Saline vs. Cocaine	0.001
		Saline vs. Cocaine+naspm	0.0036
		Cocaine vs. Cocaine+naspm	1
Fig 4q	two-way RM ANOVA	dnRac1 active vs dnRac1 re-exp active	0.0003
		dnRac1 inactive vs dnRac1 re-exp inactive	1
Fig 5e	one-way ANOVA	saline caRac1 vs. cocaine non-trans	0.0003
		saline caRac1 vs. cocaine non-trans naspm	0.042
		saline caRac1 vs. cocaine caRac1	1
		saline caRac1 vs. cocaine caRac1 naspm	0.0188
		cocaine non-trans vs. cocaine non-trans naspm	1
		cocaine non-trans vs. cocaine caRac1	0.0002
		cocaine non-trans vs. cocaine caRac1 naspm	1
		cocaine non-trans naspm vs. cocaine caRac1	0.0253
		cocaine non-trans naspm vs. cocaine caRac1 naspm	1
		cocaine caRac1 vs. cocaine caRac1 naspm	0.0116
Fig 5l	one-way ANOVA	saline vs. cocaine	1
		saline vs. cocaine naspm	0.0034
		cocaine vs. cocaine naspm	0.0008
Fig 5n	two-way RM ANOVA	saline non-trans vs saline trans	1
		cocaine non-trans vs cocaine trans	1
		saline non-trans vs cocaine non-trans	<0.0001
		saline trans vs cocaine trans	<0.0001
Fig 5o	two-way RM ANOVA	saline non-trans vs saline trans	0.0221
		cocaine non-trans vs cocaine trans	<0.0001

FIGURE #	TEST	COMPARISON	P VALUE
		saline non-trans vs cocaine non-trans	0.0019
		saline trans vs cocaine trans	<0.0001
Fig 5p	two-way RM ANOVA	saline non-trans vs saline trans	0.0287
		cocaine non-trans vs cocaine trans	<0.0001
		saline non-trans vs cocaine non-trans	<0.0001
		saline trans vs cocaine trans	0.013
Fig 5q	two-way RM ANOVA	saline non-trans vs saline trans	0.8302
		cocaine non-trans vs cocaine trans	0.3651
		saline non-trans vs cocaine non-trans	0.0132
		saline trans vs cocaine trans	0.0003
Fig 5r	two-way RM ANOVA	saline non-trans vs saline trans	0.0347
		cocaine non-trans vs cocaine trans	<0.0001
		saline non-trans vs cocaine non-trans	1
		saline trans vs cocaine trans	<0.0001
Fig 5v	t-test	cocaine vehicle vs cocaine LIMKi	0.0023
Fig 6f	one-way ANOVA	saline vs. cocaine	0.0151
		saline vs. cocaine naspm	0.0097
		cocaine vs. cocaine naspm	1
Fig 6h	two-way RM ANOVA	saline non-trans vs saline trans	1
		cocaine non-trans vs cocaine trans	1
		saline non-trans vs cocaine non-trans	<0.0001
		saline trans vs cocaine trans	<0.0001
Fig 6i	two-way RM ANOVA	saline non-trans vs saline trans	1
		cocaine non-trans vs cocaine trans	0.0003
		saline non-trans vs cocaine non-trans	<0.0001
		saline trans vs cocaine trans	0.0269
Fig 6j	two-way RM ANOVA	saline non-trans vs saline trans	0.5388
		cocaine non-trans vs cocaine trans	0.0006
		saline non-trans vs cocaine non-trans	0.0517
		saline trans vs cocaine trans	<0.0001
Fig 6k	two-way RM ANOVA	saline non-trans vs saline trans	0.7272
		cocaine non-trans vs cocaine trans	1
		saline non-trans vs cocaine non-trans	0.0001
		saline trans vs cocaine trans	0.0006
Fig 6l	two-way RM ANOVA	saline non-trans vs saline trans	0.353

FIGURE #	TEST	COMPARISON	P VALUE
		cocaine non-trans vs cocaine trans	0.0005
		saline non-trans vs cocaine non-trans	<0.0001
		saline trans vs cocaine trans	0.0734
Fig 6p	t-test	cocaine vehicle vs cocaine LIMKi	<0.0001
Fig 6q	two-way RM ANOVA	C450 active vs pa-Rac1 active	0.4771
		C450 inactive vs pa-Rac1 inactive	0.8386
Fig 6r	two-way RM ANOVA	C450 active vs pa-Rac1 active	<0.0001
		C450 inactive vs pa-Rac1 inactive	0.5046
Fig 6s	two-way RM ANOVA	C450 active vs pa-Rac1 active	<0.0001
		C450 inactive vs pa-Rac1 inactive	0.9827
Fig S3l	one-way ANOVA	Saline vs. Cue-rexp	0.0001
		Saline vs. 6hr post	0.0002
		Cue re-exp vs. 6hr post	1
Fig S4a	two-way RM ANOVA	Control vs. APV (50-60min)	<0.0001
		Control vs. AGL (50-60min)	1
		Control vs. TGL(50-60min)	0.0008-0.0317
		APV vs. AGL (50-60min)	<0.0001
		APV vs. TGL (50-60min)	0.2029-1
		AGL vs. TGL (50-60min)	0.0088-0.045
Fig S7h	one-way ANOVA	saline vs. cocaine	1
		saline vs. cocaine naspm	<0.0001
		cocaine vs. cocaine naspm	<0.0001