

Experiment 1a Acute Nicotine (0 or 0.09 mg/kg, IP during acquisition)

Efficiency Ratio					Rewards				
Saline		Nicotine			Saline		Nicotine		
Day	Mean	SEM	Mean	SEM	Day	Mean	SEM	Mean	SEM
1	0.11	0.03	0.08	0.04	1	14.57	3.43	9.63	3.19
2	0.12	0.04	0.11	0.07	2	16.14	4.21	6.75	2.48
3	0.24	0.07	0.13	0.08	3	20.14	4.29	9.38	4.04
4	0.28	0.08	0.17	0.07	4	17.43	4.10	10.38	3.83
5	0.26	0.08	0.21	0.11	5	20.71	4.20	12.25	4.07
6	0.31	0.11	0.27	0.11	6	21.57	4.87	13.63	4.09
7	0.31	0.08	0.23	0.08	7	21.43	5.95	19.88	4.13
8	0.42	0.13	0.33	0.09	8	22.14	5.71	19.13	4.65
9	0.45	0.13	0.37	0.11	9	25.71	4.91	17.13	3.41
10	0.42	0.12	0.36	0.09	10	25.00	3.59	22.50	3.48

ANOVAs

Day	F(9,13)=8.102, p<0.05	Day	F(9,13)=6.95, p<0.05
Drug	F(1,13)=0.41, p>0.05	Drug	F(1,13)=1.62, p>0.05
Interaction	F(9,117)=0.21, p>0.05	Interaction	F(9,117)=0.99, p>0.05

Premature "Active" Responses

Premature "Active" Responses					Total ITI Responses				
Saline		Nicotine			Saline		Nicotine		
Day	Mean	SEM	Mean	SEM	Day	Mean	SEM	Mean	SEM
1	184.57	63.95	134.38	35.55	1	85.14	22.73	82.25	19.29
2	129.29	29.30	82.25	14.37	2	86.00	15.18	63.13	10.24
3	102.29	32.30	97.25	28.19	3	66.43	18.82	73.63	21.53
4	79.71	30.94	101.38	39.38	4	49.14	18.83	54.75	15.23
5	78.86	18.55	106.38	30.76	5	50.86	9.88	57.88	15.06
6	104.71	42.61	106.25	42.48	6	54.43	15.55	57.38	18.14
7	48.43	21.78	97.50	21.54	7	35.00	13.28	65.38	11.80
8	73.14	39.50	58.50	22.57	8	36.57	18.04	45.75	17.48
9	79.00	40.02	59.75	22.10	9	45.29	20.92	42.63	15.54
10	51.57	15.24	72.63	28.33	10	34.14	9.54	40.13	12.46

ANOVAs

Day	F(9,13)=2.84, p<0.05	Day	F(9,13)=3.47, p<0.05
Drug	F(1,13)=0.002, p>0.05	Drug	F(1,13)=0.05, p>0.05
Interaction	F(9,117)=0.90, p>0.05	Interaction	F(9,117)=0.65, p>0.05

Experiment 1b Acute Nicotine (0 or 0.09 mg/kg, IP after criterion)

Efficiency Ratio					Rewards				
Saline		Nicotine			Saline		Nicotine		
Day	Mean	SEM	Mean	SEM	Day	Mean	SEM	Mean	SEM
1	0.67	0.06	0.71	0.05	1	32.83	1.68	35.15	1.34
2	0.62	0.06	0.73	0.06	2	31.42	2.73	34.69	2.34
3	0.59	0.05	0.71	0.07	3	37.25	1.56	36.62	1.98
4	0.60	0.05	0.76	0.05	4	33.75	3.05	37.15	1.50
5	0.62	0.04	0.76	0.04	5	38.75	1.44	37.85	1.29

ANOVAs

Day	F(4,23)=0.31, p>0.05	Day	F(4,23)=3.14, p<0.05
Drug	F(1,23)=4.65, p<0.05	Drug	F(1,23)=0.72, p>0.05
Interaction	F(4,92)=0.61, p>0.05	Interaction	F(4,92)=0.77, p>0.05

Premature "Active" Responses

Premature "Active" Responses					Total ITI Responses				
Saline		Nicotine			Saline		Nicotine		
Day	Mean	SEM	Mean	SEM	Day	Mean	SEM	Mean	SEM
1	24.67	8.60	15.77	3.98	1	16.25	6.50	15.17	5.04
2	21.83	5.82	13.15	5.30	2	18.25	6.04	10.25	3.23
3	27.00	2.90	18.77	6.92	3	19.67	3.66	11.92	4.35
4	23.67	3.79	10.77	2.86	4	18.42	3.56	9.92	2.76
5	26.17	4.45	13.85	4.33	5	21.25	5.53	10.17	2.94

ANOVAs

Day	F(4,23)=0.44, p>0.05	Day	F(4,23)=0.16, p>0.05
Drug	F(1,23)=7.16, p<0.05	Drug	F(1,23)=3.47, p>0.05
Interaction	F(4,92)=0.10, p>0.05	Interaction	F(4,92)=0.36, p>0.05