Table 2
Mean Activity Scores Utilizing Direct Observation (Obs) and Automated (Auto) Methods
of Scoring and Spearman Rank Difference Correlations (ρ) Between
Obs and Auto Totals for Trials 1-3 and Trials 4-6

		A/J		C57BL/6J	
	Trial	Obs	Auto	Obs	Auto
White Light	1	6.4	13.5	61.4	66.6
	2	8.0	23.3	39.7	43.1
	3	8.1	18.9	37.8	40.4
		$\rho = .93$		$\rho = .91$	
Red Light	4	26.1	58.9	54.6	58.3
	5	24.8	53.8	49.4	52.8
	6	23.4	63.4	48.8	52.3
		$\rho = .66$		$\rho = .96$	

automated scores which misrepresent their activity level.

Bolles and Sanders (1969) observed rats while their behavior was monitored by an ultrasonic activity recording device. Their results were that this recording device did measure

activity, but that important changes in pattern of activity could not be differentiated. The present test also was highly correlated with direct observation scores of activity, but the total scores were dependent upon (1) mouse strain and (2) whether

observational or automated scores were used. The only valid measure of mouse activity may be direct observation or some variant of time-lapse cinematography.

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ERRATUM

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