Supplemental Table 1. An overview of F statistics, p values and effect sizes (partial eta squared) from the main outcomes of the 2-way ANOVA performed for each Latin square. Where applicable, the method of transformation employed is shown.

	Baclofen & Muscimol		Scopolamine		Mecamylamine	
	Treatment	Treatment × Region	Treatment	Treatment × Region	Treatment	Treatment × Region
Number of trials	$F_{(2, 26)}=$ 13.180, ***$p < 0.001$, $\eta^2= 0.503$, 1-β= 0.994; square root transformation	$F_{(2, 26)}=$ 9.449, ***$p < 0.001$, $\eta^2= 0.421$, 1-β= 0.965; square root transformation	$F_{(1.365, 16.385)}=$ 2.723, $p = 0.109$, $\eta^2= 0.185$, 1-β = 0.391; square root transformation	$F_{(1.365, 16.385)}=$ 0.267, $p = 0.684$, $\eta^2= 0.022$, 1-β = 0.081; square root transformation	-	-
% Accuracy	$F_{(2, 26)}=$ 23.932, ***$p < 0.001$, $\eta^2= 0.648$, 1-β= 1.000	$F_{(2, 26)}=$ 5.852, **$p = 0.008$, $\eta^2= 0.310$, 1-β= 0.831	$F_{(2, 24)}=$ 1.895, $p = 0.172$, $\eta^2= 0.136$, 1-β= 0.354	$F_{(2, 24)}=$ 0.317, $p = 0.731$, $\eta^2= 0.026$, 1-β= 0.095	$F_{(3, 33)}=$ 0.780, $p = 0.514$, $\eta^2= 0.066$, 1-β= 0.199	$F_{(3, 33)}=$ 1.309, $p = 0.288$, $\eta^2= 0.106$, 1-β= 0.316
% Omitted responses	$F_{(2, 26)}=$ 9.391, **$p = 0.003$, $\eta^2= 0.419$, 1-β= 0.901; arcsine transformation	$F_{(2, 26)}=$ 4.565, *$p = 0.035$, $\eta^2= 0.260$, 1-β= 0.610; arcsine transformation	$F_{(2, 24)}=$ 2.098, $p = 0.145$, $\eta^2= 0.149$, 1-β= 0.388	$F_{(2, 24)}=$ 2.446, $p = 0.108$, $\eta^2= 0.169$, 1-β= 0.444	$F_{(3, 33)}=$ 0.413, $p = 0.745$, $\eta^2= 0.036$, 1-β= 0.123; arcsine transformation	$F_{(3, 33)}=$ 0.840, $p = 0.482$, $\eta^2= 0.071$, 1-β= 0.212; arcsine transformation
% Premature responses	$F_{(2, 26)}=$ 4.418, *$p = 0.022$, $\eta^2= 0.254$,	$F_{(2, 26)}=$ 0.616, $p = 0.548$, $\eta^2= 0.045$,	$F_{(2, 24)}=$ 1.097, $p= 0.350$, $\eta^2= 0.084$, 1-β= 0.220	$F_{(2, 24)}=$ 1.100, $p= 0.349$, $\eta^2= 0.084$,	$F_{(3, 33)}=$ 3.361, *$p= 0.030$, $\eta^2= 0.234$,	$F_{(3, 33)}=$ 1.158, $p= 0.341$, $\eta^2= 0.095$, 1-β= 0.282;

	1-β= 0.709; arcsine transformation	1-β= 0.142; arcsine transformation		1-β= 0.220	1-β= 0.709; arcsine transformation	arcsine transformation
Perseverative responses	$F_{(2, 26)}$= 10.913, ***$p < 0.001$, η^2= 0.456, 1-β= 0.982	$F_{(2, 26)}$= 5.273, *$p = 0.012$, η^2= 0.289, 1-β= 0.789	$F_{(2, 24)}$= 1.058, $p = 0.363$, η^2= 0.081, 1-β= 0.213	$F_{(2, 24)}$= 0.684, $p = 0.514$, η^2= 0.054, 1-β= 0.152	$F_{(3, 33)}$= 0.813, $p = 0.496$, η^2= 0.069, 1-β= 0.206; arcsine transformation	$F_{(3, 33)}$= 1.518, $p = 0.228$, η^2= 0.121, 1-β= 0.363; arcsine transformation
Reward collection latency	$F_{(2, 26)}$= 2.038 $p= 0.151$, η^2= 0.136, 1-β= 0.381; logarithmic transformation	$F_{(2, 26)}$= 0.723, $p = 0.495$, η^2= 0.053, 1-β= 0.159; logarithmic transformation	$F_{(2, 24)}$= 0.836, $p= 0.446$, η^2= 0.065, 1-β= 0.176; logarithmic transformation	$F_{(2, 24)}$= 2.276, $p= 0.124$, η^2= 0.159, 1-β= 0.417; logarithmic transformation	$F_{(3, 33)}$= 1.996, $p= 0.134$, η^2= 0.154, 1-β= 0.466; logarithmic transformation	$F_{(3, 33)}$= 0.694, $p= 0.562$, η^2= 0.059, 1-β= 0.181; logarithmic transformation
Correct response latency	$F_{(2, 26)}$= 3.981, *$p= 0.031$, η^2= 0.234, 1-β= 0.661; logarithmic transformation	$F_{(2, 26)}$= 2.886, $p= 0.074$, η^2= 0.182, 1-β= 0.515; logarithmic transformation	$F_{(2, 24)}$= 7.755, **$p= 0.003$, η^2= 0.393, 1-β= 0.921; logarithmic transformation	$F_{(2, 24)}$= 0.987, $p= 0.387$, η^2= 0.076, 1-β= 0.201; logarithmic transformation	$F_{(3, 33)}$= 0.502, $p= 0.683$, η^2= 0.044, 1-β= 0.141; logarithmic transformation	$F_{(3, 33)}$= 0.399, $p= 0.755$, η^2= 0.035, 1-β= 0.120; logarithmic transformation
Incorrect response latency	$F_{(2, 26)}$= 2.038, $p= 0.151$, η^2= 0.136, 1-β= 0.381; logarithmic transformation	$F_{(2, 26)}$= 4.321, *$p= 0.024$, η^2= 0.249, 1-β= 0.699; logarithmic transformation	$F_{(2, 24)}$= 1.885, $p= 0.174$, η^2= 0.136, 1-β= 0.353	$F_{(2, 24)}$= 1.855, $p= 0.178$, η^2= 0.134, 1-β= 0.348	$F_{(3, 33)}$= 0.535, $p= 0.662$, η^2= 0.046, 1-β= 0.147; logarithmic transformation	$F_{(3, 33)}$= 0.298, $p= 0.827$, η^2= 0.026, 1-β= 0.101; logarithmic transformation