Table S1. Linear Discriminate Analysis

A. All Animals

Comparison		Probability	Distance
Female A1221 (0.5)	Male A1221 (0.5)	0.51	41.77
Female A1221 (0.5)	Female A1221 (1.0)	0.81	27.79
Female A1221 (0.5)	Male A1221 (1.0)	0.42	41.66
Female A1221 (0.5)	Female Vehicle	0.65	40.26
Female A1221 (0.5)	Male Vehicle	0.72	34.30
Female A1221 (0.5)	Female EB	0.26	46.96
Female A1221 (0.5)	Male EB	0.20	48.00
Male A1221 (0.5)	Female A1221 (1.0)	0.16	57.74
Male A1221 (0.5)	Male A1221 (1.0)	0.57	39.77
Male A1221 (0.5)	Female Vehicle	0.30	57.05
Male A1221 (0.5)	Male Vehicle	0.15	60.99
Male A1221 (0.5)	Female EB	0.08	68.77
Male A1221 (0.5)	Male EB	0.19	53.09
Female A1221 (1.0)	Male A1221 (1.0)	0.15	49.40
Female A1221 (1.0)	Female Vehicle	0.16	54.76
Female A1221 (1.0)	Male Vehicle	0.93	24.85
Female A1221 (1.0)	Female EB	0.75	28.77
Female A1221 (1.0)	**Male EB**	**0.03**	**60.18**
Male A1221 (1.0)	Female Vehicle	0.11	61.94
Male A1221 (1.0)	Male Vehicle	0.22	49.21
Male A1221 (1.0)	Female EB	0.07	57.44
Male A1221 (1.0)	Male EB	0.66	32.61
Female Vehicle	Male Vehicle	0.30	50.41
Female Vehicle	**Female EB**	**0.04**	**69.55**
Female Vehicle	**Male EB**	**0.03**	**67.16**
Male Vehicle	Female EB	0.88	28.77
Male Vehicle	Male EB	0.08	55.16
Female EB	**Male EB**	**0.01**	**65.14**

B. Females Only

Comparison		Probability	Distance
A1221 (0.5)	A1221 (1.0)	0.80	27.66
A1221 (0.5)	Vehicle	0.65	40.60
A1221 (0.5)	EB	0.32	46.35
A1221 (1.0)	Vehicle	0.12	56.94
A1221 (1.0)	EB	0.77	28.84
Vehicle	**EB**	**0.04**	**70.32**

C. Males Only

Comparison		Probability	Distance
A1221 (0.5)	A1221 (1.0)	0.59	39.91
A1221 (0.5)	Vehicle	0.20	60.40
A1221 (0.5)	EB	0.26	53.42
A1221 (1.0)	Vehicle	0.26	49.10
A1221 (1.0)	EB	0.68	31.99
Vehicle	EB	0.06	56.56

Table S1. Systematic pairwise comparisons were made via linear discriminate analysis (LDA) of the entire dataset. Both probability and Mahalanobis distance values are shown for all animals (A), or for each sex separately (Females, B; Males, C). Instances of significant separation between compared behavioral datasets are shown in bold.