

AJP_Hubbard&McCowan_Innovation, inhibition and flexibility in rhesus macaques (*Macaca mulatta*)

Outcome: Innovation Score (0-3)

N=50; Nrank= 25; Nbba=27

a=0.05

a=0.0125

Model formula	AICc	Predictors	Estimate	SE	p	adjusted p
Innovation_Score ~ 1 , data = MAB_Data, family = "poisson"	123.39	Intercept	-0.32	0.16	0.048	0.048
Innovation_Score ~ Rank, data = MAB_Data, family = "poisson"	59.77	Intercept	-0.63	0.71	0.379	0.379
		Rank	0.23	1.30	0.854	0.854
Innovation_Score ~ ExploratoryDiversityDay1Trial1 + Persistence	107.81	Intercept	-2.04	0.62	0.001	0.001
		Exploratory Diversity	0.25	0.06	0.0001	0.0001
		Persistence	-0.01	0.002	0.028	0.028
Innovation_Score ~ RoundedAge + HealthStatus, data = MAB_Data	116.43	Intercept	1.80	0.73	0.013	0.013
		Age	-0.11	0.04	0.011	0.011
		HealthStatusSPF	-0.88	0.39	0.023	0.023
Innovation_Score ~ BBA_Nervous + Avg_PropNovelLook + BBA_Day1Activity	62.61	Intercept	0.35	0.84	0.673	0.673
		Nervousness	0.95	0.34	0.006	0.006
		Proportion Novel Look	-2.28	1.36	0.094	0.094
		Day1Activity	0.78	0.32	0.015	0.015
		Day2Emotionality	-0.48	0.30	0.106	0.106

Outcome: SolveDay1 (Y/N)

N=47; Nrank=23, Nbba=26

a=0.05

a=0.0125

Model formula	AICc	Predictors	Estimate	SE	p	adjusted p
SolveDay1 ~ 1 , data = MAB_Data_HabituationPassOnly, family =	63.51	Intercept	-0.56	0.30	0.061	0.061
SolveDay1 ~ Rank, data = MAB_Data_HabituationPassOnly, family =	32.63	Intercept	-0.21	1.34	0.872	0.872
		Rank	-1.18	2.49	0.634	0.634
SolveDay1 ~ ExploratoryDiversityDay1Trial1 + PersistenceDay1Trial1	53.07	Intercept	-3.80	1.27	0.002	0.002
		Exploratory Diversity	0.53	0.16	0.001	0.001
		Persistence	-0.01	0.01	0.014	0.014
SolveDay1 ~ RoundedAge + HealthStatus, data = MAB_Data_HabituationPassOnly	61.37	Intercept	2.78	1.48	0.061	0.061
		Age	-0.17	0.08	0.037	0.037
		Health Status	-1.16	0.70	0.1009	0.101
SolveDay1 ~ BBA_Gentle + BBA_Vigilant + Avg_PropNovelObj + Avg_PropNovelLook	32.30	Intercept	5.70	3.85	0.138	0.138
		Nervous	1.65	0.80	0.039	0.039

Proportion Novel Loo	-12.65	6.90	0.069	0.069
Day1Emotionality	-1.78	1.06	0.094	0.094

Outcome: Exploratory Diversity (0-16)

N=47; Nrank=23, Nbba=26

a=0.05

a=0.0125

Model formula	AICc	Predictors	Estimate	SE	p	adjusted p
ExploratoryDiversity ~ 1 , data = MAB_Data_HabituationPassOnly	240.54	Intercept	2.20	0.04	<0.001	<0.001
ExploratoryDiversity ~ Rank, data = MAB_Data_HabituationPassC	116.26	Intercept	1.86	0.21	<0.001	<0.001
		Rank	0.57	0.38	0.134	0.134
ExploratoryDiversity ~ Neophobia_LatGrapeHab + PersistenceDay	227.60	Intercept	2.02	0.10	<0.001	<0.001
		Neophobia	-0.001	0.004	0.079	0.079
		Persistence	0.001	0.001	0.0003	0.0003
ExploratoryDiversity ~ RoundedAge + HealthStatus, data = MAB_	235.13	Intercept	2.84	0.21	2.00E-16	<0.001
		Age	-0.03	0.01	0.004	0.004
		Health Status	-0.16	0.10	0.09	0.091
ExploratoryDiversity ~ BBA_Gentle, data = MAB_Data_Habituation	138.46	Intercept	2.19	0.07	2.00E-16	<0.001
		Gentle	-0.12	0.06	0.061	0.061

Outcome: SolveDay2 (Y/N)

N=17

a=0.05

a=0.025

Model formula	AICc	Predictors	Estimate	SE	p	adjusted p
SolveDay2 ~ 1 , data = MAB_Data_HabituationPassOnly, family =	11.92	Intercept	3.91	1.01	0.0001	0.0001
SolveDay2 ~ Day2ErrorCount , data = MAB_Data_HabituationPas:	27.68	Intercept	0.55	0.71	0.437	0.437
		Day2ErrorCount	-0.02	0.02	0.402	0.402
SolveDay2 ~ Day2ErrorDuration , data = MAB_Data_HabituationF	27.27	Intercept	0.66	0.73	0.363	0.363
		Day2ErrorDuration	-0.01	0.01	0.315	0.315

Outcome: SolveDay3 (Y/N)

N=9

a=0.05

a=0.025

Model formula	AICc	Predictors	Estimate	SE	p	adjusted p
SolveDay3 ~ 1 , data = MAB_Data_HabituationPassOnly, family =	12.10	Intercept	1.25	0.80	0.118	0.118
SolveDay3 ~ Day3ErrorCount , data = MAB_Data_HabituationPas:	15.51	Intercept	1.48	1.71	0.399	0.388
		Day3ErrorCount	-0.01	0.09	0.877	0.877
SolveDay3 ~ Day3ErrorDuration , data = MAB_Data_HabituationF	15.52	Intercept	1.14	1.62	0.482	0.482

