

S1 Table. RMA summary

Studies	RM Rationale	Materials & Methods						Results															
		Normality	Equal Variance	How RMA described?	# of treatment	Repeated measure	# of time point	Outcomes	Figure	Table	Precision	Overall test				Individual Test							
												F value	Treatment	Time	Treatment x time	Yes/No	# of test						
Liu et al.,2014	no	no	no	Repeated measurement test	4	Body weight	7	body weight	yes	no	yes	no	yes	no	no	no	0						
						Locomotion	6	locomotion															
						Rearing	6	Rearing															
						Latency	5	Latency															
Whitford et al.,2009	yes	no	no	Repeated-measures ANOVA	4	Number of lever response on FR	5	Group responses per session	yes	no	yes	no	yes	yes	yes	no	0						
						Efficiency ration for DRL	10	Group efficiency ratios															
Bera et al.,2007	no	no	no	Two way ANOVA for repeated measures	3	Pup weight	NA	Pup weight gain	no	yes	yes	no	yes	no	no	no	NA						
						Locomotor activity test	4	Locomotor activity test															
						Conditioned avoidance response (CARs)	3	CARs	yes	yes	yes							yes	yes	3			
						Blood pressure		Blood pressure			no							no	NA	NA			
Jin et al.,2008	no	yes	yes	(TW-RM-ANOVA)	15	Urine volume	3	Urine volume	no	NA	no	no	yes	no	no	yes	3						
						Osmolality		osmolality															
						Creatinine		Creatinine															
						GGT		GGT															
Basha and Sujitha,2012	no	no	no	TW-RM-ANOVA	6	Mean of correct choices/session	9	Mean of correct choices(session)	yes	no	no	no	yes	yes	yes	no	0						
						Latency change	8	Latency change															
Basha et al.,2011	no	no	no	Two-factor ANOVA with RM	7	Number of alternation	NA	No. of correct choice/10 trials	no	no	no	no	yes	yes	yes	no	0						
						Latency	Latency																
Black et al., 2011	no	yes	yes	Repeated measures analysis of variance	4	Grip strength	2	Grip strength	yes	no	yes	no	yes	no	no	no	0						
Sitting et al.,2012	no	no	no	Two-way repeated measures ANOVA	2	Latency to reach platform	4	Latency to reach platform	yes	no	yes	no	yes	yes	yes	yes	4						
						Mean swim speed		Mean swim speed															
						Distance traveled		Distance traveled															
Liu et al., 2010	no	no	no	Test by repeated measure	3	Escape latency	6	Escape latency	no	yes	yes	no	yes	no	yes	6							
Carvalho et al.,2007	no	no	no	Repeated measures and ANOVA	4	Liquid consumption	17	Liquid consumption	no	no	yes	no	no	no	no	no	0						
						Solid consumption		Solid consumption															
Jensen et al.,2013	no	no	no	Repeated measures ANOVA	6	Mean latency (MWM)	NA	Mean latency (MWM)	yes	no	yes	yes	yes	yes	yes	no	0						
						Mean latency (RMWM)	NA	Mean latency (RMWM)															
Carlin et al.,2013	no	no	no	Repeated measures by time	4	Maternal weight gain	NA	Maternal weight gain	no	yes	yes	no	yes	no	yes	yes	3						
						Offspring weight gain		Offspring weight gain															
Ma et al.,2015	no	no	no	Repeat measurement test	3	Body weight	7	Body weight	no	yes	no	no	no	no	no	no	no						
						Von Frey hairs test	5	Withdrawal threshold															
						FT	6	Finches/10 mins	yes	no	yes							no	yes	yes	yes	no	0
								licking time/10 mins															
Burdge et al.,2008	no	yes	no	General linear Model with repeated measures	4	Dam weight	8	Dam weight	yes	no	yes	no	yes	yes	yes	yes	8						
						Litter weight	5	Litter weight															
						Offspring weight	12	body weight															
Cho et al.,2013	no	no	no	PROC MIXED time as the main factors	3	Food intake	13	Food intake	yes	no	yes	no	yes	yes	yes	no	0						
						Body weight gain	28	Body weight gain															
						Blood glucose response	6	Blood glucose response															
Cho et al.,2013	no	no	no	PROC MIXED time as	4	Food intake	13	Food intake	yes	no	yes	no	yes	yes	yes	no	0						
						Body weight gain	28	Body weight gain															
Pannia et al.,2015	no	no	no	main factor repeated measures analysis of vairance	4	Food intake	14	Cumulative FI	yes	no	yes	no	yes	yes	yes	no	0						
						Pup body weight)		Changes in body weight															
Jiang et al.,2014	no	no	no	Repeated mesures design analysis of variance	4	Daily water intake	120	Daily fluid consumption	yes	no	yes	no	yes	yes	yes	yes	12						
						Body weight	12	Body weight															
						Escape Latency	5	Escape Latency															
Bartos et al.,2015	no	no	no	Repeated-measures ANOVA	3	Number of squares	3	Number of squares	yes	no	yes	yes	yes	yes	yes	no	0						
						Number of rearings		Number of rearings															

Burdge et al., 2009	yes	no	no	General linear Model with repeated measures	4	Change in Body weight	9	Change in Body weight	yes	no	yes	no	no	no	yes	yes	9	
Day et al., 2005	yes	no	no	Repeated measures ANOVA	6	Grip strength in F0	4	Grip strength in F0	yes	no	yes	no	yes	yes	yes	yes	4	
						Grip strength in F1	2	Grip strength in F1								no	0	
						Running wheel in F1	3	Running wheel in F1								yes	yes	
Paletz et al., 2006	no	no	no	Univariate (RMA-NOVA)	6	Response rate	NA	response rates	yes	no	yes	no	yes	yes	yes	yes	15	
						Response efficiency	NA	Response efficiency									yes	2
Reed et al., 2006	no	no	no	Repeated-measures analysis of variance (RMANOVA)	6	Correct	NA	Correct	yes	no	yes	no	yes	yes	yes	yes	yes	NA
						Errors		Errors										
						Omission trails		Omission trails										
						Rearing lever latency		Rearing lever latency										
						Choice latency		Choice latency										