

Reported studies per species (n)	Neurobehavioral assessment (n)	Cortico-steroid	Total Dose (mg/kg)	Reported significant outcome
Open field behavior (n=22)	Rat (n=20)			
	1975 Smith (14)	DM	0,85	↑ stress
	1997 Muneoka (17)	DM	0,15	↓ ambulation, ↓ rearing
	2001 Welberg (21)	DM	0,70	↓ ambulation, ↓ rearing
	2006 Bruschetti (28)	BM	0,34	No difference
	2006 Oliveira (31)	DM	2,00	↓ locomotion, ↓ explore
	2006 Velisek (33)	BM	0,80	↓ rearing
	2008 Nagano (41)	DM	0,25	↓ ambulation, ↓ rearing
	2009 Hauser (44)	DM	0,70	No difference
	2010 Neigh (47)	DM	0,70	↓ locomotion
	2012 Liu (52)	DM	1,04	↓ ambulation, ↓ rearing
	2012 Nagano (53)	DM	0,30	↓ ambulation, ↓ rearing
	2012 Rodrigues (55)	DM	2,00	↓ ambulation
	2014 Pascual (61)	BM	0,34	↓ locomotion, ↓ explore
	2014 Virdee (62)	DM	0,20	No difference
	2015 Zeng (67)	DM	0,70	No difference
	2016 Hiroi (68)	DM	2,00	↓ locomotion, ↓ center time
	2016 Virdee (71)	DM	0,30	No difference
	2017 Caetano (72)	DM	2,00	No difference
	2018 Dong (75)	DM	2,40	No difference
2018 Liu (77)	DM	1,04	↓ ambulation, ↓ rearing	
	Mouse (n=2)			
	2017 Tsiarli (74)	DM	0,40	No difference, ↑ center time
	2018 Frahm (76)	DM	0,70	No difference
Elevated plus maze (n=13)	Rat (n=11)			
	2001 Welberg (21)	DM	0,70	↓ open arm entries
	2006 Oliveira (31)	DM	2,00	↑ anxiety
	2006 Velisek (33)	BM	0,80	↑ latency
	2008 Hossain (40)	DM	0,70	↓ open arm entries (males)
	2009 Hauser (44)	DM	0,70	No difference
	2012 Oliveira (54)	DM	2,00	↓ open arm entries
	2015 Pascual (65)	BM	0,34	↓ open arm entries
	2015 Zeng (67)	DM	0,70	No difference
	2016 Pascual (70)	BM	0,34	No difference
	2017 Caetano (72)	DM	2,00	↓ time open arms
	2018 Dong (75)	DM	2,40	No difference
		Mouse (n=2)		
1997 Rayburn (18)		BM + DM	2,00	↑ time open arms (BM only)
2017 Tsiarli (74)		DM	0,40	↑ time open arms
Forced swim test (n=13)	Rat (n=10)			
	2001 Welberg (21)	DM	0,70	↑ Immobile
	2005 Burlet (24)	DM	0,50	No difference

	2006 Oliveira (31)	DM	2,00	↑ Immobile
	2008 Nagano (41)	DM	0,25	No difference
	2009 Hauser (44)	DM	0,70	↑ female floating time
	2011 Roque (50)	DM	2,00	↑ Immobile
	2013 Borges (57)	DM	2,00	↑ Immobile, ↓ climbing
	2016 Hiroi (68)	DM	2,00	↑ Immobile
	2017 Caetano (72)	DM	2,00	No difference
	2018 Liu (77)	DM	1,04	↑ Immobile
	Mouse (n=3)			
	1997 Rayburn (18)	BM + DM	2,00	No difference
	2017 Conti (73)	DM	0,25	↑ Immobile
	2017 Tsiarli (74)	DM	0,40	↓ Immobile
Morris water maze (n=9)	Rat (n=7)			
	2000 Brabham (19)	DM	1,89	↑ trial blocks
	2006 Bruschetini (28)	BM	0,34	No difference
	2006 Oliveira (31)	DM	2,00	No difference
	2009 Hauser (44)	DM	0,70	No difference
	2015 Lui (64)	DM	0,80	No difference
	2015 Zeng (67)	DM	0,70	No difference
	2018 Dong (75)	DM	2,40	↑ latency, ↑ distance
	Mouse (n=2)			
	2001 Christensen (20)	BM	8,00	No difference
	2008 Noorlander (42)	DM	0,40	↑ latency, ↑ distance
Acoustic startle (n=7)	Rat (n=6)			
	2005 Hougaard (78)	DM	0,80	↑ response
	2008 Hossain (40)	DM	0,70	↑ startle amplitude
	2010 Kleinhaus (46)	DM	6,00	↓ startle amplitude
	2011 Kjaer (48)	DM	1,60	↑ startle amplitude
	2012 Oliveira (54)	DM	2,00	↑ startle amplitude
	2014 Virdee (62)	DM	0,20	No difference
	Mouse (n=1)			
	1997 Rayburn (18)	BM + DM	2,00	↓ response (DM only)
Prepulse inhibition (n=6)	Rat (n=6)			
	2005 Hougaard (78)	DM	0,80	No difference
	2006 Hauser (29)	DM	0,70	No difference
	2010 Kleinhaus (46)	DM	6,00	↑ level, ↑ efficiency
	2011 Kjaer (48)	DM	1,60	No difference
	2012 Oliveira (54)	DM	2,00	No difference
	2014 Virdee (62)	DM	0,20	↑ response in males
Sucrose preference test (n=5)	Rat (n=5)			
	2010 Neigh (47)	DM	0,70	↓ Preference
	2011 Roque (50)	DM	2,00	↓ Preference
	2012 Liu (52)	DM	1,04	↓ Preference
	2013 Borges (57)	DM	2,00	↓ Preference
	2018 Liu (77)	DM	1,04	↓ Preference

T-maze (n=2)	Rat (n=1)			
	2016 Virdee (71)	DM	0,30	No difference
	Mouse (n=1)			
	1997 Rayburn (18)	BM + DM	2,00	No difference
Light dark choice (n=3)	Rat (n=3)			
	2008 Nagano (41)	DM	0,25	↓ time in light box
	2012 Nagano (53)	DM	0,30	↓ transitions
	2016 Hiroi (68)	DM	2,00	No difference
Tube runway (n=2)	Mouse (n=2)			
	1997 Rayburn (18)	BM + DM	2,00	No difference
	2001 Christensen (20)	BM	8,00	No difference
Social play (n=2)	Rat (n=2)			
	2010 Kleinhaus (46)	DM	6,00	↓ walkovers
	2013 Borges (57)	DM	2,00	Neg
Tail suspension (n=2)	Rat (n=1)			
	2018 Liu (77)	DM	1,04	↑ Immobile
	Mouse (n=1)			
	2018 Frahm (76)	DM	0,70	↓ Immobile
Sexual behavior analysis (n=2)	Rat (n=2)			
	1995 Holson (16)	DM	0,80	No difference
	2011 Oliveira (49)	DM	2,00	↓ mounts, latency, ejaculations
Object recognition test (n=1)	Rat (n=1)			
	2006 Bruschetini (28)	BM	0,34	No difference
Y-maze (n=1)	Rat (n=1)			
	2014 Bustamante (58)	BM	0,34	↓ novel arm entries
Marble burying (n=1)	Rat (n=1)			
	2015 Pascual (65)	BM	0,34	Increased
Grasping test (n=1)	Rat (n=1)			
	2005 Burlet (24)	DM	0,50	↓ grasping time
Ultrasound vocalization (n=1)	Rat (n=1)			
	2013 Borges (57)	DM	2,00	No difference
Righting Reflex (n=1)	Rat (n=1)			
	2005 Burlet (24)	DM	0,50	↑ duration
Horizontal bar (n=1)	Rat (n=1)			
	2006 Velisek (33)	BM	0,80	No difference
Radial 8 arm (n=1)	Mouse (n=1)			
	1997 Rayburn (18)	BM + DM	2,00	No difference
Negative geotaxis (n=1)	Mouse (n=1)			
	1997 Rayburn (18)	BM + DM	2,00	No difference
Ethanol consumption (n=1)	Rat (n=1)			
	2012 Rodrigues (55)	DM	2,00	↑ consumption
Home cage behavior (n=3)	Rat (n=1)			
	2013 Borges (57)	DM	2,00	↓ social behavior
	Non-human primate (n=2)			
	2007 Hauser (34)	DM	70,00	↑ mobile, solitary play

	2008 Hauser (39)	DM	35,00	↑ mobile, ↓ social play, ↓ exploration
Cambridge Neuropsychological Test Automated Battery (n=1)	Non-human primate (n=1)			
	2008 Hauser (39)	DM	35,00	↑ responses, ↑ rewards (females)

* BM betamethasone, DM dexamethasone

Table 4. Neurobehavioral assessments reported on in selected studies, per specie and type of antenatal corticosteroid used including the reported significant outcomes.