Arrive	MIA Model Specific Reporting Recommendation
Item	Please complete this chart for each point outlined below. If not applicable, write N/A
6	MIA Specific Reporting: a. General need for improved reporting in MIA model methods + reporting pilot data O Details on pilot data:
	Provide details of:
7	 a. Compounds – source, vehicle, preparation/storage, administration route, volume administered, whether anesthetics were used at time of immune challenge. Name of compound: Catalogue number: Lot number: Vehicle control used: Route of administration: Volume administered: Storage conditions: Anesthetic (type, dose, duration) used: b. Housing variables at injection - temperature of room at injection time, cage change at time of injection or not Light cycle of animal housing room: Time of day of injection: Room temperature at injection time:
	Arrive Item

Kentner AC, Bilbo AD, Brown AS, Hsiao EY, McAllister AK, Meyer U, Pearce BD, Pletnikov MV, Yolken RH, Bauman MD. (2018). Maternal immune activation: reporting guidelines to improve the rigor, reproducibility, and transparency of the model. Neuropsychopharmacology, https://doi.org/10.1038/s41386-018-0185-7.

		 c. Validation of immune activation – behavior, physiological indices and/or cytokine data, including pilot dosing data Method used to verify immune activation: d. Validation of gestational timing – vaginal plug, estrous cycle, weight gain Method of validating gestational timing: Additional comments:
 Experimental animals ➢ Species/strain/vendor a. Provide details of the animals used, including species, strain, sex, developmental stage (e.g. mean or median age plus age range) and weight (e.g. mean or median weight plus weight range). b. Provide further relevant information such as the source of animals, international strain nomenclature, genetic modification status (e.g. knock-out or transgenic), genotype, health/immune status, drug or test naïve, previous procedures, etc. 	8	 Provide details of: a. Species – considerations for appropriate species (mouse, rat, non human primate, other) Species: b. Strain – variability in strain can influence model Strain: c. Maternal/Offspring Physiological Variables at time of immune challenge – age, body weight Maternal Age at challenge: Maternal Body weight: Offspring Age at challenge: Offspring Sex: Offspring Body weight: d. Vendor – even within the same strain, vendor can influence endpoints Vendor: Location of Vendor: Room/area where animals originated from:

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		Additional Comments:
Housing and husbandry		Provide details of:
Cage, ventilation, bedding, enrichment		a. Caging systems
		○ At breeding
Provide details of:		Material of cage:
a. Housing (type of facility e.g. specific pathogen free		Cage dimensions:
[SPF]; type of cage or housing; bedding material; number		 After parturition
of cage companions; tank shape and material etc. for		Material of cage:
fish).		Cage dimensions:
light/dark cycle, temperature, guality of water etc for		○ At weaning
fish, type of food, access to food and water,		Material of cage:
environmental enrichment).		Cage dimensions:
c. Welfare-related assessments and interventions that	0	
experiment.	9	b. Animal Holding room
experiment.		o remperature in room:
		• Humidity in room:
		• ventilation system:
		• Specific pathogen free [SPF]:
		\circ Are males & females housed in the same or separate rooms:
		c. Bedding exchanges/bedding type
		 Type of cage bedding used:
		 Frequency of cage changes per week
		during gestation:
		during neonatal period:
		following weaning:
		 Breeding - bred on site or timed pregnant, how many different sires (are the same fathers breeding with both experimental and control dams) Breeding location:

 Gestational age at shipping:
 Biological age of dams (if not listed in Section 8c):
 Number of Dams bred:
 How many times have dams been mated previously:
 How many times did the dams mate and not become pregnant:
 Are the dams primiparous or multiparous?
 What was the frequency of maternal handling during the gestational/neonatal period (e.g. cage cleanings, weighing, blood collection manipulations): Biological age of sires:
 Number of sires bred:
 How many times have sires been mated previously:
 How many times did the sires mate successfully (e.g. mating resulted in pregnancy, full term birth):
 If bred previously, what was the interval between mating times:
 Are sires matched to experimental and control dams:
 Describe the mating design (1:1, 1:2 etc):
 e. Social enrichment – number of cage companions Number of cage companions prior to breeding: Gestational age when dam separated for parturition: Number of cage companions at weaning:
 f. Physical enrichment – describe enrichment devices, and when enrichment is in the cage (removed when pups born? Or present throughout study), does the enrichment type change? How frequently? Describe what type of enrichment devices (and how many) are included in cage/housing room:

Samula size		 Does enrichment type/access change across study? If so, when does enrichment type/access change (e.g. enrichment removed prior to parturition and replaced in late neonatal period): Additional Comments:
 Sample size ➤ Litter versus offspring a. Specify the total number of animals used in each experiment, and the number of animals in each experimental group. b. Explain how the number of animals was arrived at. Provide details of any sample size calculation used. c. Indicate the number of independent replications of each experiment, if relevant. 	10	 Provide details of: Maternal N vs offspring N What is the total number of dams/litters included in the study: What is the total number of offspring per litter included the study: Litter size and sex distribution What size was each litter maintained at: What age did culling take place at: How many males and females were maintained in each litter: Cross fostering Did cross fostering occur: If so, at what age did cross fostering occur: Additional Comments:

Allocating animals to experimental groups		a. How many offspring per litter were used in each measure:
 a. Give full details of how animals were allocated to experimental groups, including randomization or matching if done. b. Describe the order in which the animals in the different experimental groups were treated and assessed. 	11	 b. Randomization/Matching procedures What procedures were used to assign animals to groups: c. Sex as a biological variable (behavioral and physiological outcomes) Were both males and females evaluated in each behavioral and physiological outcome: Additional Comments:
Experimental outcomes		a Maternal behavior and nun interactions
 Behavioral testing Physiological endpoints 		 If maternal care was evaluated, were there differences following immunogen challenge (if so, please briefly describe):
Clearly define the primary and secondary experimental outcomes assessed (e.g. cell death, molecular markers, behavioral changes).	12	b. Age(s) of offspring at behavioral testing/physiological evaluation endpoints:
		 c. Order of testing (e.g. behavioral test order) Were animals evaluated in a counter-balanced order in terms of: presentation of tests to each animal: order of experimental/control groups run through each test: What was the inter-test interval if a single animal underwent a battery of tests:

		Additional Comments:
 Statistical methods a. Provide details of the statistical methods used for each analysis. b. Specify the unit of analysis for each dataset (e.g. single animal, group of animals, single neuron). c. Describe any methods used to assess whether the data met the assumptions of the statistical approach. 	13	 a. Unit of analysis for each data set O Is the unit (n) of each analysis based on number of litters, or number of animals used per group:
Other Disclosures		Please make note of any other extraneous variables that you would like to report (e.g. fire alarms, construction, temporary relocations, other variables that you think we should be considering in our studies etc.):

The recommended use of this reporting form is to fill it out and include it as supplemental material for each of your laboratory's research publications. If there are difficulties utilizing/adapting this fillable form, please contact one of the corresponding authors to request a copy. The authors give permission for this table to be edited for use in reporting on other animal models (e.g. postnatal immune challenge models, early life stress models) as appropriate.

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