<Supplementary Materials>

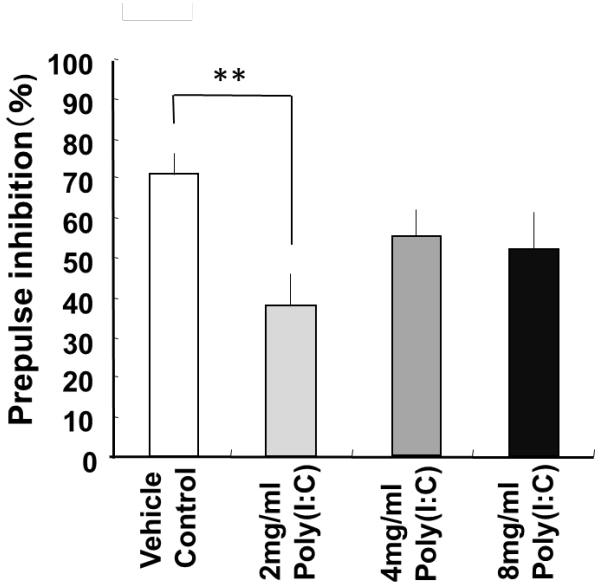
Inter-breeder differences in prepulse inhibition deficits of C57BL/6J mice in a maternal immune activation model

Yutaro Kobayashi, Hiroyoshi Inaba, Yuriko Iwakura, Hisaaki Namba, Hidekazu Sotoyama, Yui Murata, Kazuya Iwamoto, and Hiroyuki Nawa

Supplemental Figure S1; Preliminary assessment of Poly(I:C) dose effects on prepulse inhibition.

Pregnant dams of C57BL/6J mice were obtained from CLEA Japan Inc. and challenged with the different doses (2, 4 and 8 mg/kg, iv) of Poly(I:C) or saline (control) at the gestation stage 15. PPI levels of their offspring were measured at the adult stage with 82-dB prepulses and 120-dB main startle pulses. **P*<0.05 by T-test (n = 8 pups for control, 8 pups for 2 mg/kg, 12 pups for 4 mg/kg and 16 pups for 8 mg/kg). The figure was re-drawn from the data of the annual report to the private foundation as indicated below;

Aoki H, Mizuno M, Kakita A, Nawa H. Experimental evaluation of the maternal viral infection hypothesis of schizophrenia; contribution of cytokine induction. Annual Report of Phearmacopsychiatry Research (Japanese) 2006; 38: 204-209.



Note; The number of pregnant dams was n=2 for control and 2 mg/kg Poly(I:C) groups and n=3 for 4 mg/kg and 8 mg/kg Poly(I:C) groups. With the given heterogeneity of data deviation among groups, we failed to apply ANOVA.

Supplementary Table S1; the sample number of mouse dams and pups born
Main effects and interactions of the subject factors of breeder (3), Poly(I:C)(2), and sex (2)

Subject	Breeder	The number of the dam/ The number of the offspring	Factors	F value and p value
Prepulse inhibition	All	Saline : 11/♂ : 30, ♀ : 35 Poly(I:C) : 14/♂ : 40, ♀ : 37	Breeder	F(2, 130)=0.760, p=0.470
			Poly(I:C)	F(1, 130)=1.236, p=0.268
			Sex	F(1, 130)=0.098, p=0.754
			Interaction(Breeder X Poly(I:C))	F(2, 130)=3.206, p=0.044
			Interaction(Breeder X Sex)	F(2, 130)=0.762, p=0.469
			Interaction(Sex X Poly(I:C))	F(1, 130)=0.014, p=0.906
			Interaction (Breeder X Poly(I:C) X Sex)	F(2, 130)=0.132, p=0.876
	CLEA	Saline : 3/♂ : 7, ♀ : 10 Poly(I:C) : 6/♂ : 23, ♀ : 16	Poly(I:C)	F(1, 52)=5.659, p=0.021
			Sex	F(1, 52)=0.005, p=0.944
			Interaction(Poly(I:C) X Sex)	F(1, 52)=0.164, p=0.687
	Charles	Saline : 3/♂ : 11, ♀ : 10 Poly(I:C) : 3/♂ : 8, ♀ : 6	Poly(I:C)	F(1, 31)=0.725, p=0.401
			Sex	F(1, 31)=0.155, p=0.697
			Interaction(Poly(I:C) X Sex)	F(1, 31)=0.075, p=0.786
	SLC	Saline : 5/♂ : 12, ♀ : 15 Poly(I:C) : 5/♂ : 9, ♀ : 15	Poly(I:C)	F(1, 47)=1.960, p=0.168
			Sex	F(1, 47)=1.654, p=0.205
			Interaction(Poly(I:C) X Sex)	F(1, 47)=0.071, p=0.792
Startle respnse	All	Saline : 11/♂ : 30, ♀ : 35 Poly(I:C) : 14/♂ : 40, ♀ : 37	Breeder	F(2, 130)=5.680, p=0.004
			Poly(I:C)	F(1, 130)=0.892, p=0.347
			Sex	F(1, 130)=20.188, p<0.001
			Interaction(Breeder X Poly(I:C))	F(2, 130)=1.383, p=0.254
			Interaction(Breeder X Sex)	F(2, 130)=0.054, p=0.947
			Interaction(Poly(I:C) X Sex)	F(1, 130)=3.157, p=0.078
			Interaction (Breeder X Poly(I:C) X Sex)	F(2, 130)=0.613, p=0.543
Adaptation rate	All	Saline : 11/♂ : 30, ♀ : 35 Poly(I:C) : 14/♂ : 40, ♀ : 37	Breeder	F(2, 130)=0.347, p=0.707
			Poly(I:C)	F(1, 130)=1.081, p=0.300
			Sex	F(1, 130)=0.215, p=0.644
			Interaction(Breeder X Poly(I:C))	F(2, 130)=0.214, p=0.807
			Interaction(Breeder X Sex)	F(2, 130)=1.512, p=0.222
			Interaction(Poly(I:C) X Sex)	F(1, 130)=2.885, p=0.092
			Interaction (Breeder X Poly(I:C) X Sex)	F(2, 130)=0.628, p=0.535