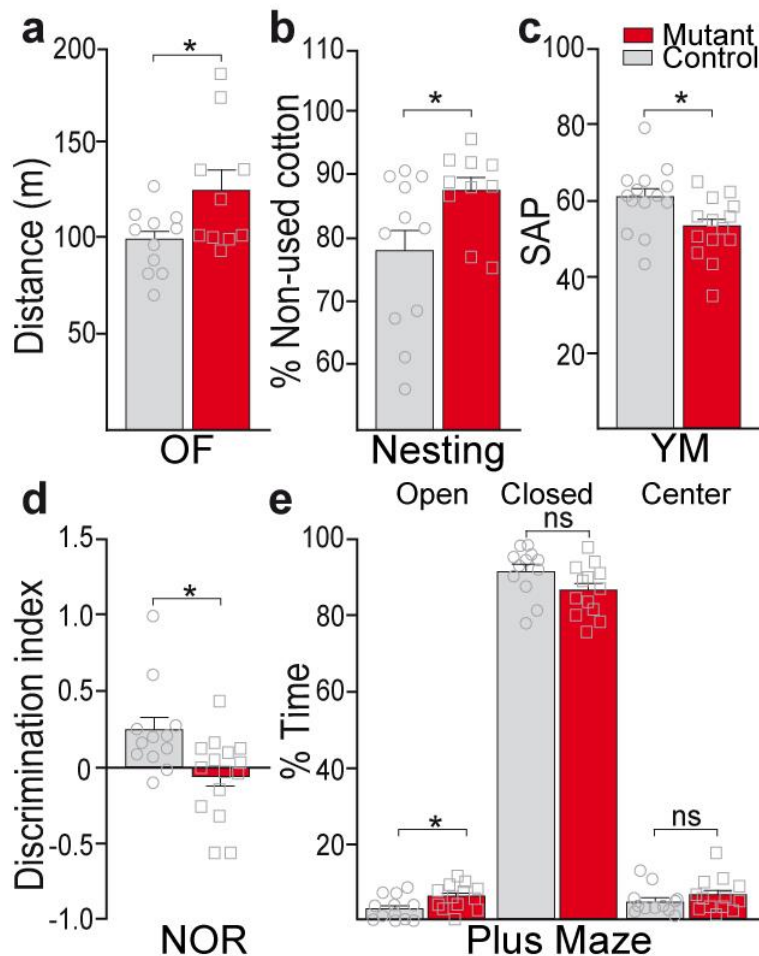


Supplementary material for

Intrinsic metabolic and immune impairments in a genetic mouse model of schizophrenia.

Martina Belmonte, Sofia Lopez Cardoso, Anabella A. Di Pietro, Florencia Veigas, Laura A. Pasquini and Diego M. Gelman.



Supplementary figure 1. Schizophrenia-like phenotypes in mutant $Pvalb^{\Delta DRD2}$ animals. **a**- Total distance traveled in an open field. **b**- Non used cotton in a nesting test. **c**- Spontaneous alternation percentage (SAP) in a Y maze. **d**- Discrimination index in the novel object recognition test. **e**- Percentage of permanence time in open, closed or center areas of a plus maze. Data are presented as mean $\pm$ s.e.m. $n=10-15$ animals per group. a-c, e- Unpaired t-test. d- Mann Whitney test. * $p<0.05$; ns, not significant.

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Supplementary Table 1: Descriptive statistics.

Figure 1	Animal age: 180 to 300 days												Post hoc analysis	
	Controls (n)	Avg. Controls	SEM	Mutants (n)	Avg. Mutants	SEM	Test	P value	t	df	Cohen's d	Power		
a- TG	17	1.158	0.0632	12	1.349	0.0654	t	0.0252	2.048	27	0,77	0,51		
b- Cholesterol	17	1.126	0.0686	13	0.907	0.0517	t	0.0243	2.381	28	-0,89	0,65		
c- HDL	17	0.201	0.0108	13	0.163	0.014	t	0.0133	2.643	28	-0,81	0,56		
d- LDL	17	0.924	0.0596	13	0.743	0.0463	t	0.0307	2.276	28	-0,84	0,60		

Figure 2							
a- GTT	Animal age: 180 days				Sum-of-squares	Mean square	
Source of Variation	% of total variation		P value	Df			F
Interaction	3		< 0.0001	6	93620	15600	7,733
Time	76,57		< 0.0001	6	2388000	398000	197,2
Genotype	0,88		0,1678	1	27550	27550	2,029
Subjects (matching)	10,0136		< 0.0001	23	312300	13580	6,729
Residual				138	278500	2018	
Bonferroni posttests							
	Difference	t	P value				
0	10,53	0,4313	P > 0.05				
5	-5,511	0,2258	P > 0.05				
10	-52,41	2,148	P > 0.05				
15	2,804	0,1149	P > 0.05				
30	76,45	3,132	P < 0.05				
60	86,79	3,556	P<0.01				
120	58,29	2,388	P > 0.05				

											Post hoc analysis	
	Controls (n)	Avg. Controls	SEM	Mutants (n)	Avg. Mutants	SEM	Test	P value	t	df	Cohen's d	Power
b- GTT - AUC	11	18550	2146	14	25420	1702	t	0.0182	2.542	23	1,03	0,68
	Animals age: 136 days											
c- Weight	20	34.23	0.7891	28	33.56	0.7488	MW	0.3206			-0,18	0,09 *

Figure 3	Animal age: 71 to 73 days											
	Controls (n)	Avg. Controls	SEM	Mutants (n)	Avg. Mutants	SEM	Test	P value	t	df	Cohen's d	Power
a- % Lymphocytes	32	77.07	1.248	26	72.62	1.437	t	0.0221	2.353	56	-0,62	0,64
b- % Neutrophils	32	17.31	0.940	26	21.16	1.202	t	0.0133	2.556	56	0,68	0,71
c- Leukocytes	17	20160	764.6	13	21100	1141	t	0.4834	0.7102	28	0,25	0,11
d- Lymphocytes	16	16180	747.9	13	16340	1063	t	0.898	0.1447	27	0,05	0,05
e- Neutrophils	16	2830	220.2	13	3643	278.4	t	0.0284	2.298	27	0,87	0,61
f- NLR	16	0.174	0.015	13	0.231	0.022	t	0.0397	2.165	27	0,82	0,57

Figure 4	Animal age: 96 to 116 days											
	Controls (n)	Avg Controls	SEM	Mutants (n)	Avg Mutants	SEM	Test	P value	t	df	Cohen's d	Power
a- CD3	6	15.19	1.686	10	17.53	0.6766	t	0.1533	1.510	14	0,78	0,29
b- CD4	6	54.20	1.172	10	59.94	0.3287	t	<0.0001	5.829	14	3,01	1,00
c- CD8	6	39.33	1.923	10	35.08	0.6055	t	0.0223	2.569	14	-1,33	0,67
d- CD4/CD8	6	1.398	0.092	10	1.714	0.034	t	0.0021	3.771	14	1,98	0,94
e- CD11b	6	25.98	1.434	10	27.06	1.175	t	0.5762	0.5723	14	0,30	0,08
f- Neutrophils	6	43.43	1.036	10	48.73	1.218	t	0.0099	2.982	14	1,54	0,79
g- Monocytes	6	17.05	0.555	10	16.59	0.783	t	0.6844	0.4150	14	-0,21	0,07

	Animal age: 96 to 116 days											
h- CRP	13	573.8	28.58	13	664.5	29.21	t	0.0362	2.219	24	0,87	0,57

Figure 5	Animal age 93 to 96 days						Post hoc analysis					
	Controls (n)	Avg Controls	SEM	Mutants (n)	Avg Mutants	SEM	Test	P value	t/U	df	Cohen's d	Power
c- Intensity	268	24498	603.4	271	28643	706.4	MW	<0.0001	U:28280		0,38	0,994 *
d- End points	7	119.8	12.66	7	88.97	4.14	MW	0.0175	U:6.00		-1,24	0,567 *
e- Branches	7	310.2	25.08	7	228.8	12.18	t	0.0129	t:2.918	12	-1,56	0,76

Supplementary Figure 1	Adults of more that 65 days											
	Controls (n)	Avg Controls	SEM	Mutants (n)	Avg Mutants	SEM	Test	P value	t/U	df	Cohen's d	Power
a- Open field	11	98.79	5.089	10	124.4	10.37	t	0.034	t:2.285	19	1,00	0,58
b- Nesting test	11	77.92	3.733	10	87.55	2.069	t	0.0409	t:2.194	19	0,96	0,55
c- Y maze	14	61.19	2.279	14	53.36	2.174	t	0.0197	t:2.486	26	-0,94	0,67
d- Novel object	12	0.245	0.085	15	-0.0506	0.0703	MW	0.0112	U:37.50		-1,05	0,739 *
e- Plus maze	12	3.24	0.885	13	6.44	0.915	t	0.0197	t:2.507	23	1,00	0,67

SEM: Standar Error of the Mean

MW: Mann Whitney

* Estimated assuming a normal distribution