Behavioral response Before treatment	Statistics Genotype effects 3xTg-AD *vs*. NTg (*n*=46)		
Corner Test			
Vertical activity (latency, s)	$F_{(1,45)}= 5.367$	P<0.01	*
Vertical activity (*n*)	$F_{(1,45)}= 8.110$	P<0.001	***
Horizontal activity (*n*)	$F_{(1,45)}= 25.678$	P<0.001	***
Open field test			
Initial freezing (latency, s)	$F_{(1,45)}= 0.067$	P=0.977	
Exit of the center (latency, s)	$F_{(1,45)}= 0.424$	P=0.737	
Entry into the periphery (latency, s)	$F_{(1,45)}= 1.879$	P=0.148	
Vertical activity (latency, s)	$F_{(1,45)}= 1.367$	P=0.266	
Self-grooming (latency, s)	$F_{(1,45)}= 2.766$	P=0.054	
Self-grooming (total *n*)	$F_{(1,45)}= 11.455$	P<0.001	***
Vertical activity (1 min)	$F_{(1,45)}= 7.917$	P<0.001	***
Vertical activity (2 min)	$F_{(1,45)}= 3.526$	P<0.05	*
Vertical activity (3 min)	$F_{(1,45)}= 4.516$	P<0.01	**
Vertical activity (4 min)	$F_{(1,45)}= 4.774$	P<0.01	**
Vertical activity (5 min)	$F_{(1,45)}= 2.567$	P=0.067	
Vertical activity (total *n*)	$F_{(1,45)}= 7.809$	P<0.001	***
Horizontal activity (total distance, cm)	$F_{(1,45)}= 5.122$	P<0.01	**
Defecation (total *n* of episodes)	$F_{(1,45)}= 0.466$	P=0.707	
Urine (total *n* of episodes)	$F_{(1,45)}= 5.602$	P<0.01	**
Social Interaction Test			
Social interactions			
Body/face (Latency, s)	$F_{(1,45)}= 6.348$	P<0.01	**
Body/face (total time, s)	$F_{(1,45)}= 13.689$	P<0.001	***
Body/face (total *n* of episodes)	$F_{(1,45)}= 20.580$	P<0.001	***
Vibrating tail (Latency, s)	$F_{(1,45)}= 19.443$	P<0.001	***
Vibrating tail (total *n* of episodes)	$F_{(1,45)}= 8.611$	P<0.001	***
Vibrating tail (total time, s)	$F_{(1,45)}= 8.536$	P<0.001	***
Ano-genital (Latency, s)	$F_{(1,45)}= 2.636$	P=0.062	
Ano-genital (total number of episodes)	$F_{(1,45)}= 2.273$	P=0.094	
Ano-genital (total time, s)	$F_{(1,45)}= 2.368$	P=0.084	
Aggressiveness (Latency, s)	$F_{(1,45)}= 0.941$	P=0.430	
Aggressiveness (total number of episodes)	$F_{(1,45)}= 0.941$	P=0.430	
Aggressiveness (total time, s)	$F_{(1,45)}= 0.941$	P=0.430	
Non-social interactions			
Corner (total *n* of episodes)	$F_{(1,45)}= 7.064$	P<0.01	**
Rearing (Latency, s)	$F_{(1,45)}= 1.592$	P=0.206	
Rearing (total *n* of episodes)	$F_{(1,45)}= 15.871$	P<0.001	***
Digging (Latency, s)	$F_{(1,45)}= 3.068$	P<0.05	*
Digging (total *n* of episodes)	$F_{(1,45)}= 1.805$	P=0.161	
Self-grooming (Latency, s)	$F_{(1,45)}= 1.611$	P=0.201	
Self-grooming (total *n* of episodes)	$F_{(1,45)}= 1.124$	P=0.350	
T-maze test			
Initial movement (latency of freezing, s)	$F_{(1,45)}= 0.448$	P=0.720	
Reach criteria (s)	$F_{(1,45)}= 1.145$	P=0.342	
Complete the test (total time)	$F_{(1,45)}= 0.330$	P=0.804	

Defecation (total *n* of episodes)	$F_{(1,45)}= 0.200$	P=0.896	
Urine (total *n* of episodes)	$F_{(1,45)}= 1.247$	P=0.305	

Morris water maze
Day-by-day

Day 1 (Mean latency, s)	$F_{(1,45)}= 1.448$	P=0.242	
Day 2 (Mean latency, s)	$F_{(1,45)}= 0.146$	P=0.932	
Day 3 (Mean latency, s)	$F_{(1,45)}= 2.145$	P=0.109	
Day 4 (Mean latency, s)	$F_{(1,45)}= 2.019$	P=0.126	
Day 5 (Mean latency, s)	$F_{(1,45)}= 1.302$	P=0.287	

Trial-by-trial

PT11 (Latency, s)	$F_{(1,45)}= 2.919$	P<0.05	*
PT12 (Latency, s)	$F_{(1,45)}= 2.250$	P=0.096	
PT13 (Latency, s)	$F_{(1,45)}= 0.293$	P=0.830	
PT14 (Latency, s)	$F_{(1,45)}= 0.287$	P=0.835	
PT21 (Latency, s)	$F_{(1,45)}= 1.457$	P=0.240	
PT22 (Latency, s)	$F_{(1,45)}= 0.721$	P=0.545	
PT23 (Latency, s)	$F_{(1,45)}= 1.229$	P=0.311	
PT24 (Latency, s)	$F_{(1,45)}= 0.038$	P=0.990	
PT31 (Latency, s)	$F_{(1,45)}= 0.161$	P=0.922	
PT32 (Latency, s)	$F_{(1,45)}= 0.878$	P=0.460	
PT33 (Latency, s)	$F_{(1,45)}= 3.447$	P<0.05	*
PT34 (Latency, s)	$F_{(1,45)}= 1.140$	P=0.344	
PT41 (Latency, s)	$F_{(1,45)}= 2.172$	P=0.106	
PT42 (Latency, s)	$F_{(1,45)}= 0.703$	P=0.555	
PT43 (Latency, s)	$F_{(1,45)}= 0.649$	P=0.588	
PT44 (Latency, s)	$F_{(1,45)}= 1.123$	P=0.351	
PT51 (Latency, s)	$F_{(1,45)}= 0.406$	P=0.750	
PT52 (Latency, s)	$F_{(1,45)}= 0.793$	P=0.504	
PT53 (Latency, s)	$F_{(1,45)}= 0.748$	P=0.530	
PT54 (Latency, s)	$F_{(1,45)}= 1.700$	P=0.182	

Quadrant preference

Platform quadrant (*n* of entries)	$F_{(1,45)}= 1.503$	P=0.228	
Right quadrant (n of entries)	$F_{(1,45)}= 6.989$	P<0.01	**
Opposite quadrant (*n* of entries)	$F_{(1,45)}= 0.471$	P=0.704	
Left quadrant (*n* of entries)	$F_{(1,45)}= 1.303$	P=0.286	

Marble interaction test

Intact (*n*)	$F_{(1,45)}= 2.408$	P=0.079	
Change of position (*n*)	$F_{(1,45)}= 6.822$	P<0.01	**
Buried (*n*)	$F_{(1,45)}= 3.748$	P<0.05	*

IPGTT

Glucose concentration mg/dl	$F_{(1,45)}= 0.452$	P=0.717	

Weight (g)

Week 1	$F_{(1,45)}= 5.803$	P<0.05	*
Week 6	$F_{(1,45)}= 4.126$	P<0.05	*