Supplementary Tables

Supplementary Table 1. Bonferroni post-hoc analysis after one-way ANOVA^a of the pharyngeal pumping rate of the wild type N2 strain and each mutant strain.

Strain (I)	Strain (J)	Mean Difference (I-J)	Pb
N2	ser-1	37.333	0.001 ***
	ser-2	20.133	0.001 ***

^aOne-Way ANOVA (sum of squares = 51334.857; df = 21; F = 94.821; P = 0.001 ***) ^bStatistical p-values: ***p < 0.001

Supplementary Table 2. One-way ANOVA analysis of the pharyngeal pumping rate between each strain with and without risperidone or aripiprazole.

Strain	Sum of sq	df	F	Pa
N2/N2 + Risp	64774.533	1	192.464	0.001 ***
N2/N2 + Ari	37200.600	1	188.928	0.001 ***
ser-1/ser-1 + Risp	5.400	1	0.029	0.865
<i>ser-1/ser-1</i> + Ari	117.600	1	0.595	0.444
ser-2/ser-2 + Risp	21432.600	1	93.519	0.001 ***
<i>ser-2/ser-2</i> + Ari	264.600	1	1.089	0.301
30 1 1	0.00	1		

^aStatistical p-values: ***p < 0.001.

Supplementary Table 3. Bonferroni post-hoc analysis after one-way ANOVA^a of mechanosensory response of the wild type N2 strain from different generations after treatment with risperidone.

Strain (I)	Strain (J)	Mean Difference (I-J)	Pb
N2	N2 + Risp	3.437	0.001 ***
	n=1	1.645	0.001 ***
	n=2	0.751	0.001 ***
	n=3	0.315	0.678
	Sodium butyrate	0.055	1.000
	Dauer	0.003	1.000

^aOne-Way ANOVA (sum of squares = 483.483; df = 6; F = 119.659; P = 0.001 ***) ^bStatistical p-values: ***p < 0.001.

Supplementary Table 4. Bonferroni post-hoc analysis after one-way ANOVA^a of mechanosensory response of the wild type N2 strain from different generations after treatment with aripiprazole.

Strain (I)	Strain (J)	Mean Difference (I-J)	Pb
N2	N2 + Ari	1.754	0.001 ***
	n=1	0.212	0.506
	Sodium butyrate	-0.107	1.000
	Dauer	-0.235	1.000

^aOne-Way ANOVA (sum of squares = 167.765; df = 4; F = 79.890; P = 0.001 ***) ^bStatistical p-values: ***p < 0.001.

Supplementary Table 5. Bonferroni post-hoc analysis after one-way ANOVA^a of the pharyngeal pumping rate of wild type N2 strain from different generations after treatment with risperidone.

Strain (I)	Strain (J)	Mean Difference (I-J)	Pb
N2	N2 + Risp	46.076	0.001 ***
	n=1	-2.626	1.000
	Sodium butyrate	-8.229	0.129
	Dauer	-4.079	1.000
^a One-Way	$\Delta NOVA$ (sum of s	$a_{11} = 11/710.615$ df	$-4 \cdot \mathrm{F} - 85$

^aOne-Way ANOVA (sum of squares = 114710.615; df = 4; F = 85.930; P = 0.001***) ^bStatistical p-values: ***p < 0.001.

Supplementary Table 6. Bonferroni post-hoc analysis after one-way ANOVA^a of the pharyngeal pumping rate of wild type N2 strain from different generations after treatment with aripiprazole.

Strain (I)	Strain (J)	Mean Difference (I-J)	Pb
N2	N2 + Ari	49.600	0.001 ***
	n=1	27.400	0.001 ***
	n=2	0.400	1.000
	Sodium butyrate	3.600	1.000
	Dauer	4.400	1.000

^aOne-Way ANOVA (sum of squares = 60836.200; df = 5; F = 72.279; P = 0.001 ***) ^bStatistical p-values: ***p < 0.001.