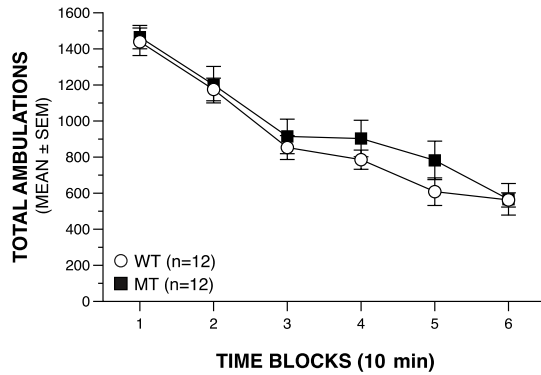


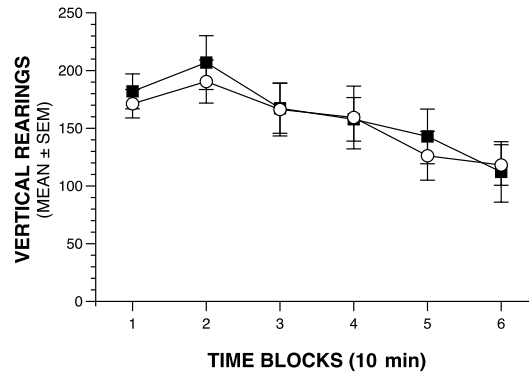
1-HR LOCOMOTOR ACTIVITY

AMBULATORY ACTIVITY



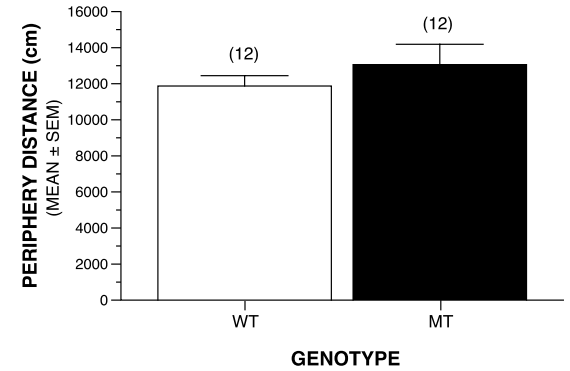
No significant effects involving Genotype or Sex and no significant between-groups comparisons.

REARING FREQUENCY



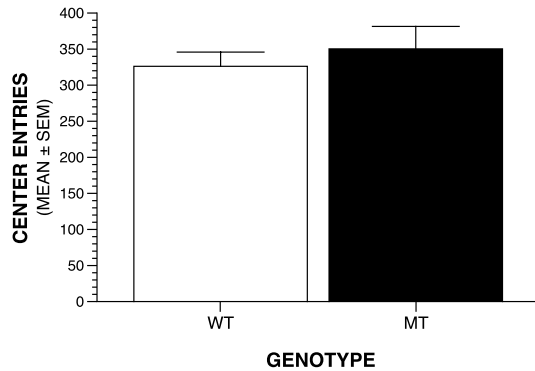
No significant effects involving Genotype, but a significant Sex x Time interaction ($p=0.018$). No significant between-groups comparisons.

DISTANCE IN PERIPHERY



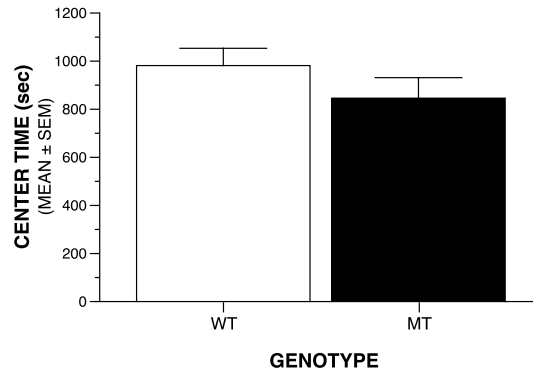
No significant effects involving Genotype or Sex.

ENTRIES INTO CENTER



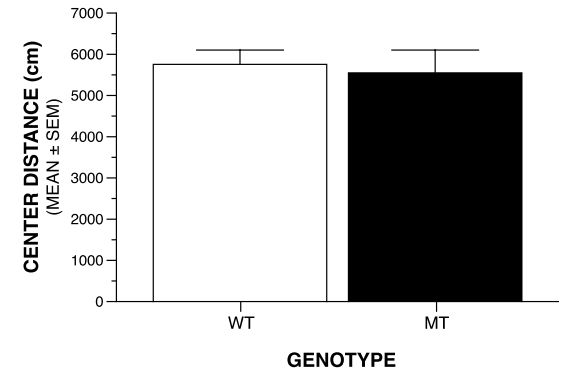
No significant effects involving Genotype or Sex.

TIME IN CENTER



No significant effects involving Genotype or Sex.

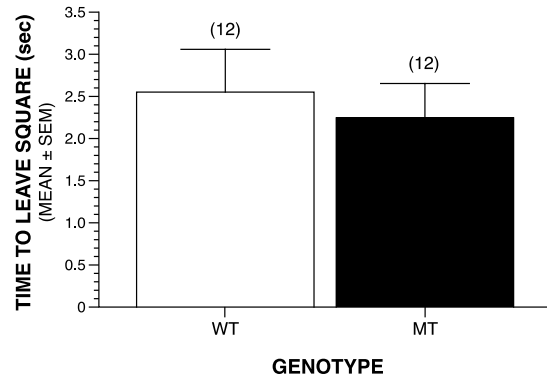
DISTANCE IN CENTER



No significant effects involving Genotype or Sex.

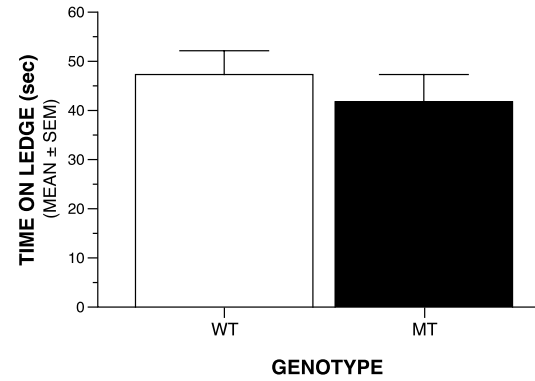
SENSORIMOTOR BATTERY

WALKING INITIATION



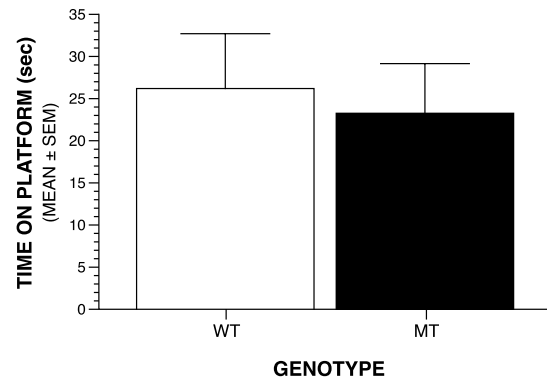
No significant effects involving Genotype or Sex.

LEDGE



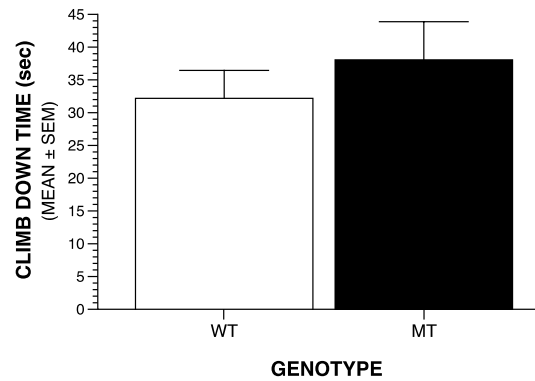
No significant effects involving Genotype or Sex.

PLATFORM



No significant effects involving Genotype or Sex.

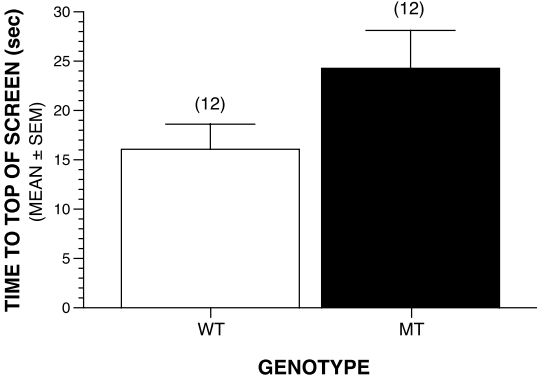
POLE



No significant effects involving Genotype or Sex.

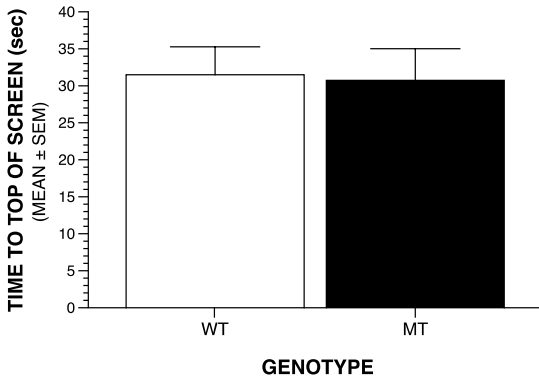
SENSORIMOTOR BATTERY: SCREEN TESTS

60° INCLINED SCREEN



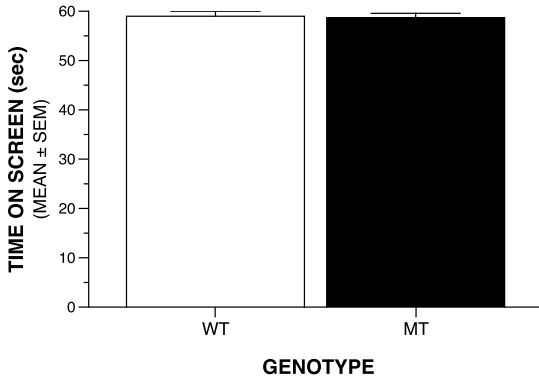
No significant effects involving Genotype or Sex. Genotype effect: $p=.071$.

90° INCLINED SCREEN



No significant effects involving Genotype or Sex.

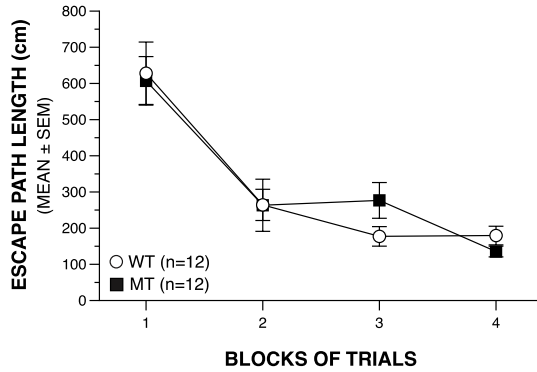
INVERTED SCREEN



No significant effects involving Genotype or Sex.

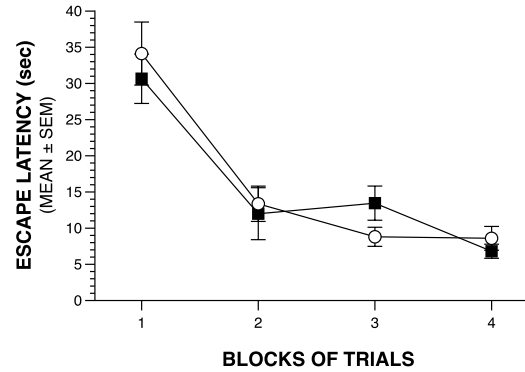
MORRIS WATER MAZE: CUED & PLACE TRIALS

CUED TRIALS: PATH LENGTH



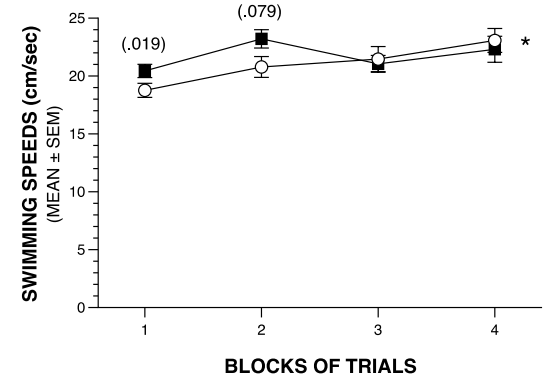
No significant effects involving Genotype or Sex and no significant comparisons.

CUED TRIALS: LATENCY



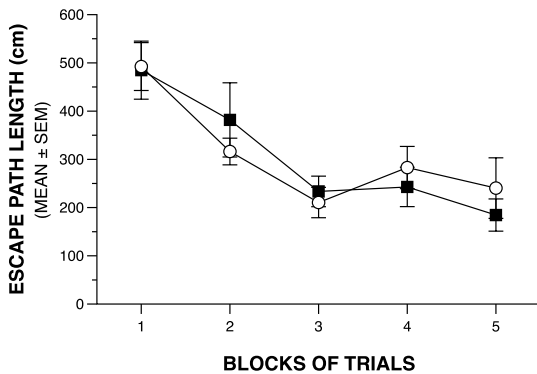
No significant effects involving Group or Sex and no significant comparisons.

CUED TRIALS: SWIMMING SPEEDS



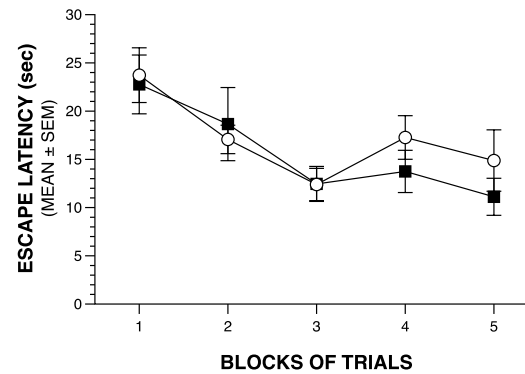
Significant Sex effect ($p=.018$), and Group x Blocks of Trials interaction ($*p=.035$).

PLACE TRIALS: PATH LENGTH



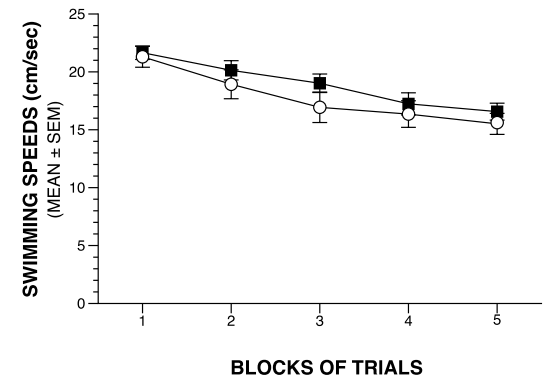
No significant effects involving Genotype or Sex and no significant comparisons.

PLACE TRIALS: LATENCY



No significant effects involving Genotype or Sex and no significant comparisons.

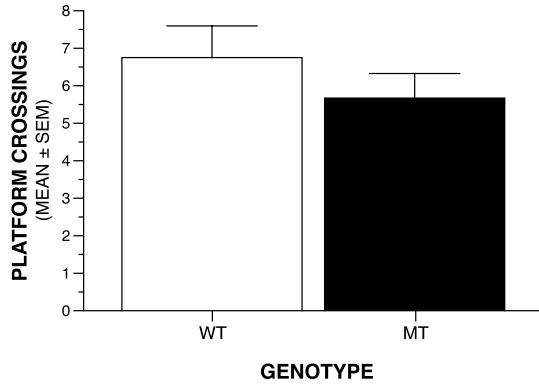
PLACE TRIALS: SWIMMING SPEEDS



No significant effects involving Genotype, but a significant Sex effect ($p=.018$).

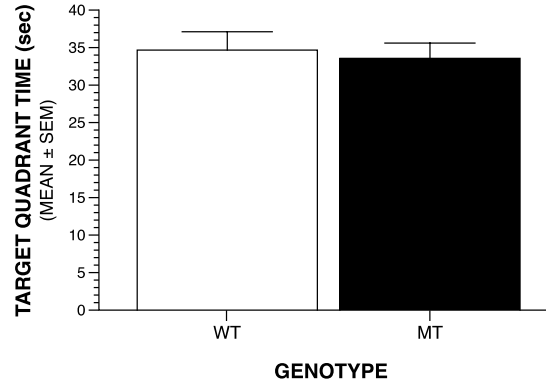
MORRIS WATER NAVIGATION: PROBE TRIAL

PLATFORM CROSSINGS



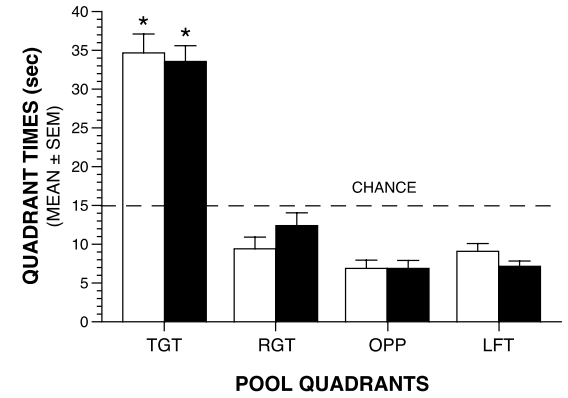
No significant effects involving Genotype or Sex.

TIME IN TARGET QUADRANT



No significant effects involving Genotype or Sex.

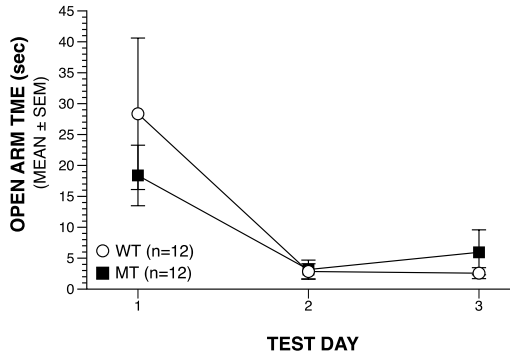
SPATIAL BIAS



The WT and MT groups each showed spatial bias for the target quadrant by spending significantly (* $p < 0.00005$) more time in the target quadrant vs each of the other quadrants.

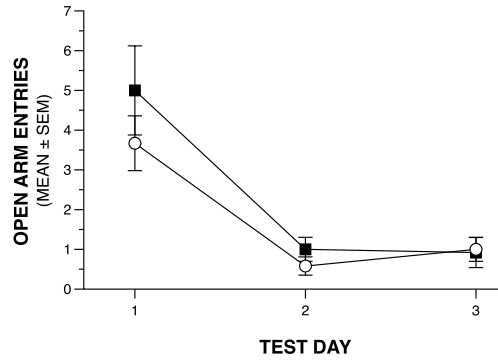
ELEVATED PLUS MAZE: OPEN ARM VARIABLES

TIME IN OPEN ARMS



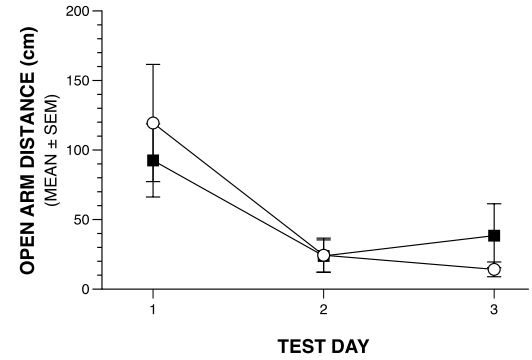
No significant effects involving Genotype or Sex and no significant comparisons.

ENTRIES INTO OPEN ARMS



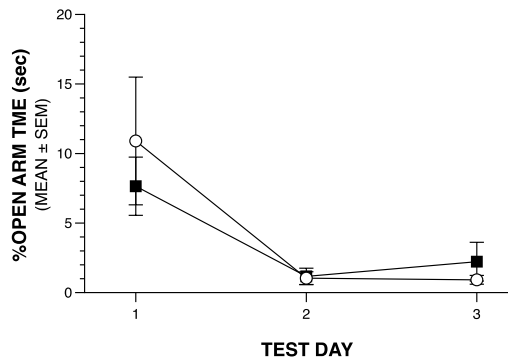
No significant effects involving Genotype or Sex and no significant comparisons.

DISTANCE TRAVELED IN OPEN ARMS



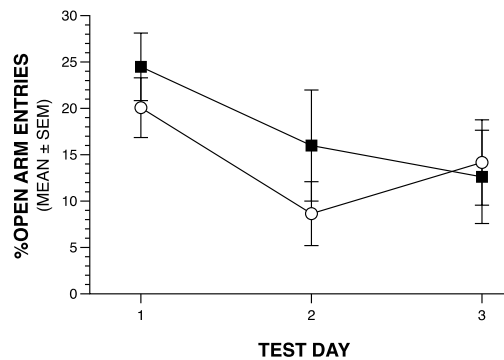
No significant effects involving Genotype or Sex and no significant comparisons.

% OF TOTAL ARM TIME SPENT IN OPEN ARMS



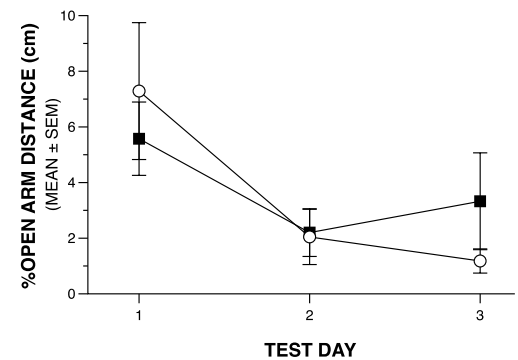
No significant effects involving Genotype or Sex and no significant comparisons.

% OF TOTAL ARM ENTRIES MADE INTO OPEN ARMS



No significant effects involving Genotype or Sex and no significant comparisons.

% OF TOTAL ARM DISTANCE TRAVELED IN OPEN ARMS

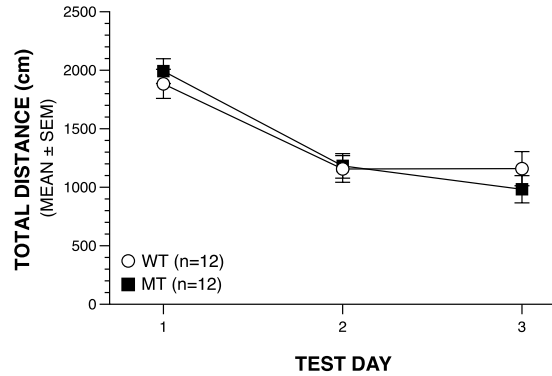


No significant effects involving Genotype or Sex and no significant comparisons.

ELEVATED PLUS MAZE

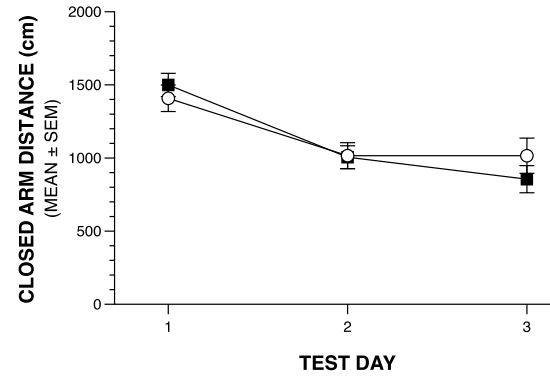
DISTANCE VARIABLES

TOTAL DISTANCE TRAVELED



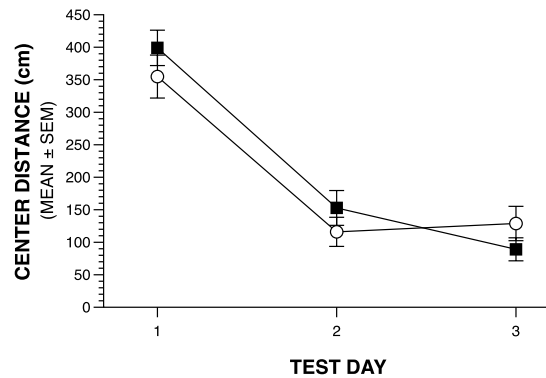
No significant effects involving Genotype or Sex and no significant comparisons.

DISTANCE TRAVELED IN CLOSED ARMS



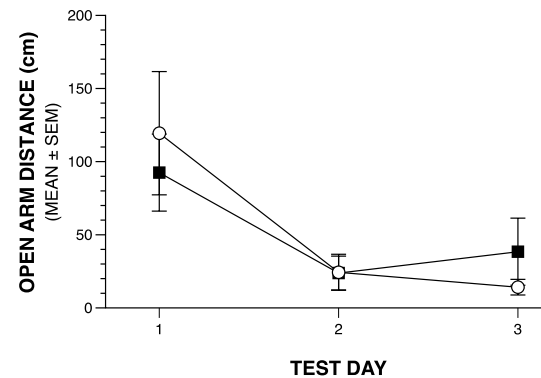
Significant Genotype x Sex x Test Day interaction: $p=0.031$.

DISTANCE TRAVELED IN CENTER



No significant effects involving Genotype or Sex and no significant comparisons.

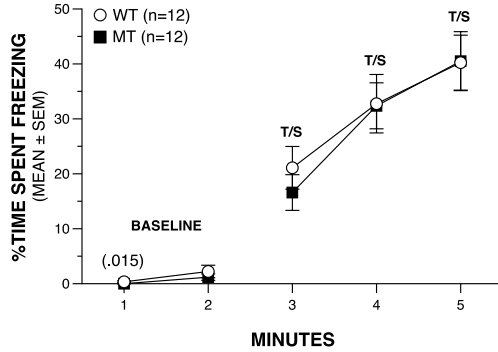
DISTANCE TRAVELED IN OPEN ARMS



No significant effects involving Genotype or Sex and no significant comparisons.

CONDITIONED FEAR

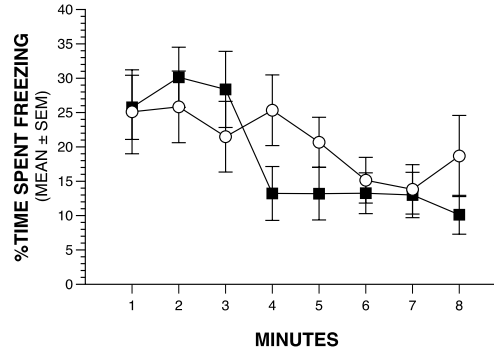
DAY 1: BASELINE - T/S TRAINING BOTH SEXES COMBINED



BASELINE: no significant effects involving Genotype but a significant Sex effect ($p=.049$).

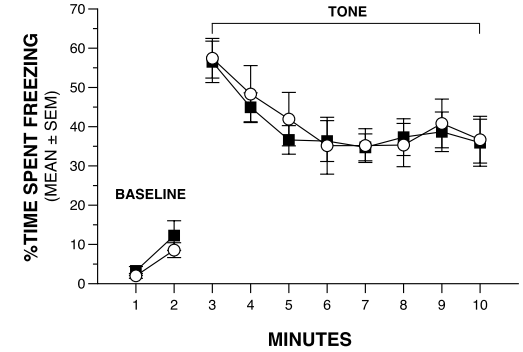
T/S TRAINING: no significant effects involving Genotype or Sex and no significant comparisons.

DAY 2: CONTEXTUAL FEAR BOTH SEXES COMBINED



Significant Genotype x Minutes interaction ($*p=.029$), and Genotype x Sex x Minutes interaction ($p=.017$).

DAY 3: AUDITORY CUE BOTH SEXES COMBINED

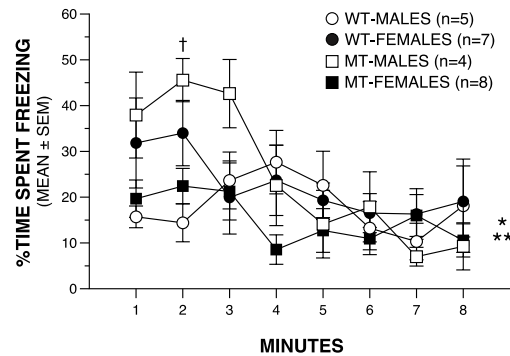


BASELINE: no significant effects involving Genotype or Sex and no significant comparisons.

AUDITORY CUE: no significant effects involving Genotype or Sex and no significant comparisons.



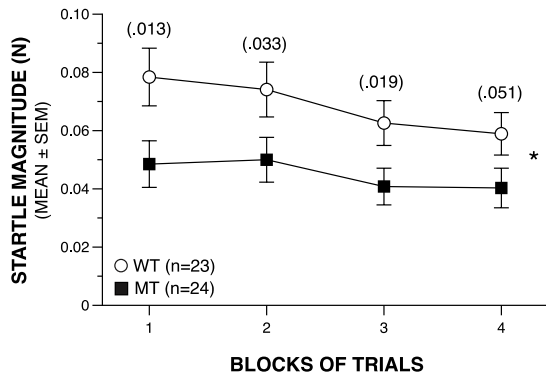
DAY 2: CONTEXTUAL FEAR SEX BY GENOTYPE



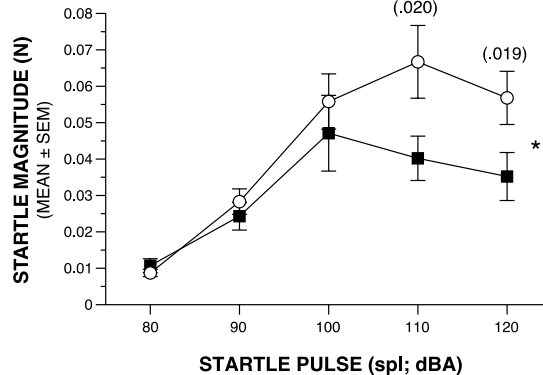
Significant Genotype x Minutes interaction ($*p=.029$), and Genotype x Minutes x Sex interaction ($**p=.017$).
WT-Males vs MT-Males: ns; Minute 2 ($\dagger p=.002$)

ACOUSTIC STARTLE/PPI

ACOUSTIC STARTLE

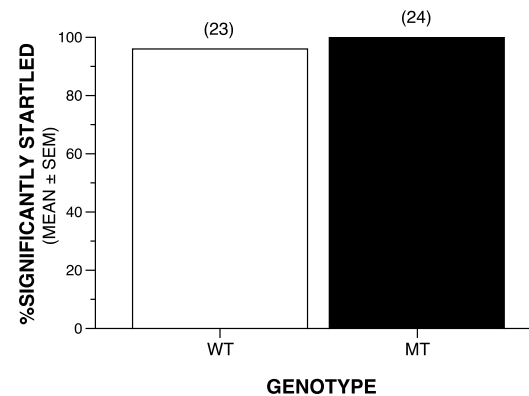


Significant Genotype (* $p=.018$) and Sex ($p=.004$) effects.



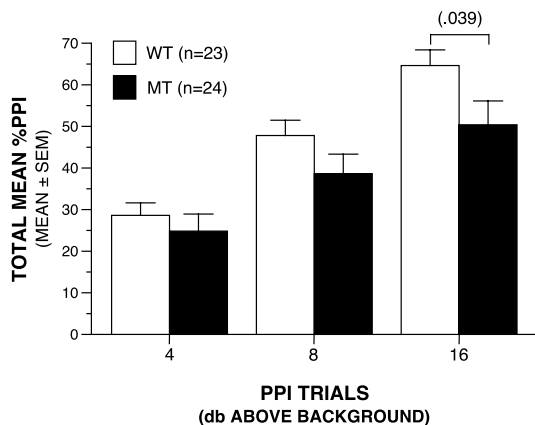
Significant Sex effect ($p=.006$), and Genotype x Pulse (* $p=.018$), and Sex x Pulse ($p=.004$) interactions.

% OF MICE SIGNIFICANTLY STARTLED



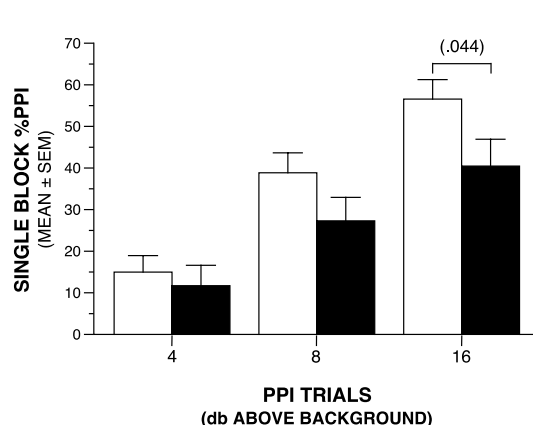
24/24 MT mice and 23/24 WT mice exhibited a significantly increased startle magnitude compared to those during no stimulation trials.

TOTAL MEAN %PPI



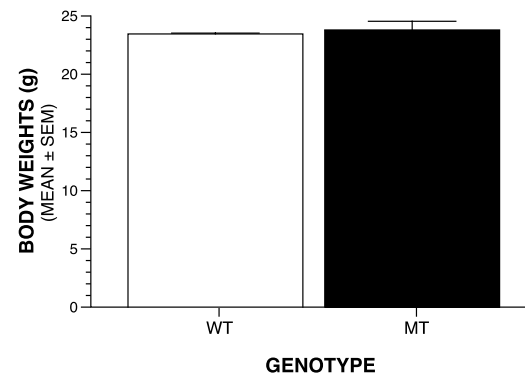
Significant Genotype x PPI trials interaction: $p=.029$. Genotype effect: $p=.10$.

SINGLE BLOCK %PPI



Significant Genotype x PPI trials interaction: $p=.048$. Sex effect: $p=.051$. Genotype effect: $p=.11$.

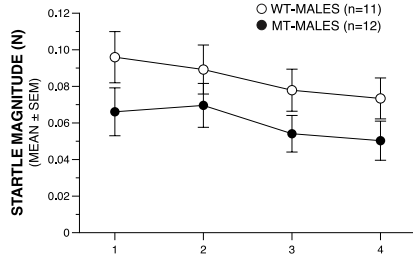
BODY WEIGHTS AT TESTING



No Significant effect involving Genotype, but a significant Sex effect ($p<.00005$).

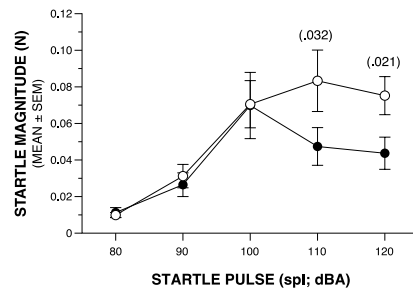
ACOUSTIC STARTLE/PPI

ACOUSTIC STARTLE



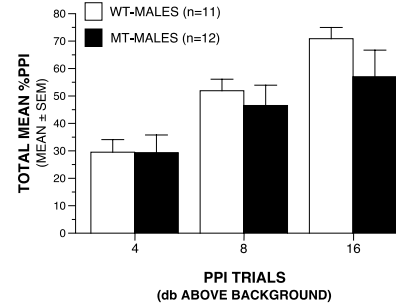
Significant Genotype (* $p=.018$) and Sex ($p=.004$) effects.
 WT-MALES vs MT-MALES: ns; and no significant between-groups comparisons.
 Genotype effect: $p=.096$.

ACOUSTIC STARTLE: INCREASING SPLs



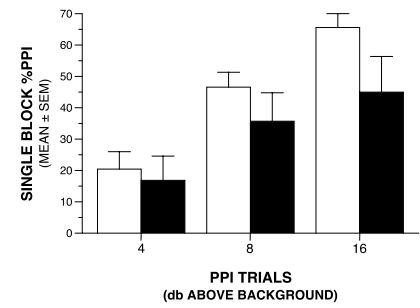
Significant Sex effect ($p=.006$), and Genotype x Pulse (* $p=.018$), and Sex x Pulse ($p=.004$) interactions.
 WT-MALES vs MT-MALES: ns.

TOTAL MEAN %PPI



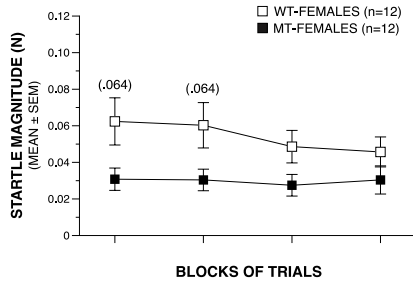
Significant Genotype x PPI trials interaction: $p=.029$.
 WT-MALES vs MT-MALES: ns; and no significant between-groups comparisons.

SINGLE BLOCK %PPI



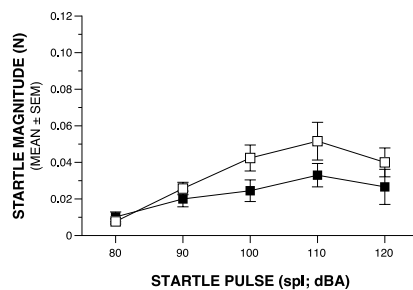
Significant Genotype x PPI trials interaction: $p=.048$. Sex effect: $p=.051$.
 WT-MALES vs MT-MALES: ns; and no significant between-groups comparisons.

ACOUSTIC STARTLE



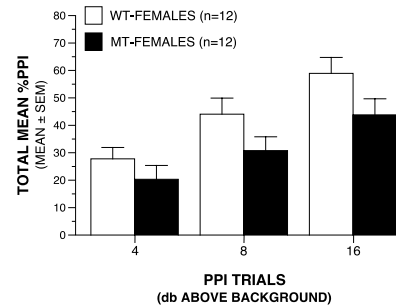
Significant Genotype (* $p=.018$) and Sex ($p=.004$) effects.
 WT-FEMALES vs MT-FEMALES: ns; and no significant between-groups comparisons.
 Genotype effect: $p=.084$.

ACOUSTIC STARTLE: INCREASING SPLs



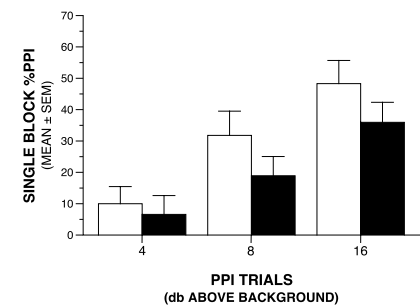
Significant Sex effect ($p=.006$), and Genotype x Pulse (* $p=.018$), and Sex x Pulse ($p=.004$) interactions.
 WT-FEMALES vs MT-FEMALES: ns; and no significant between-groups comparisons.

TOTAL MEAN %PPI



Significant Genotype x PPI trials interaction: $p=.029$.
 WT-FEMALES vs MT-FEMALES: ns; and no significant between-groups comparisons.

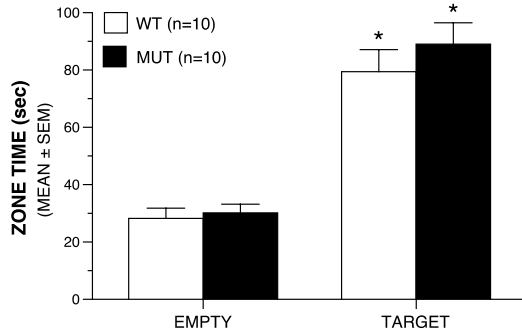
SINGLE BLOCK %PPI



Significant Genotype x PPI trials interaction: $p=.048$. Sex effect: $p=.051$.
 WT-FEMALES vs MT-FEMALES: ns; and no significant between-groups comparisons.

SOCIAL APPROACH TEST TRIAL - ZONE VARIABLES

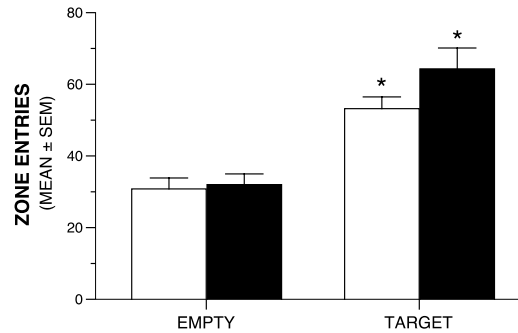
TIME IN INVESTIGATION ZONE



INVESTIGATION ZONE

Significant Genotype x Sex x Zone interaction ($p=.044$), but no significant between-groups comparisons.
 WT: Empty vs Target: $*p<.00005$.
 MUT: Empty vs Target: $*p<.00005$.

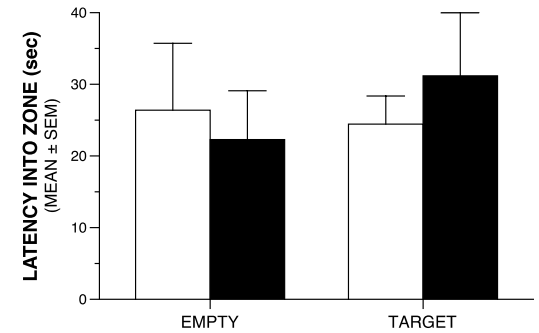
INVESTIGATION ZONE ENTRIES



INVESTIGATION ZONE

No significant effects involving Genotype or Sex, and no significant between-groups comparisons.
 WT: Empty vs Target: $*p=.0009$.
 MUT: Empty vs Target: $*p<.00005$.

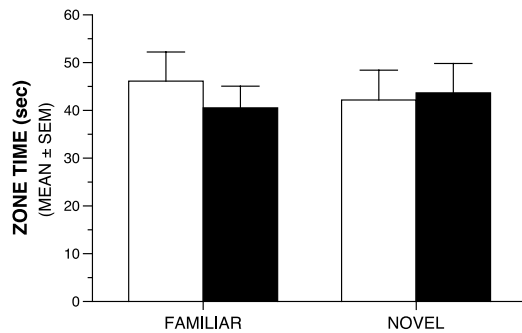
LATENCY INTO INVESTIGATION ZONE



INVESTIGATION ZONE

No significant effects involving Genotype or Sex, and no significant comparisons.

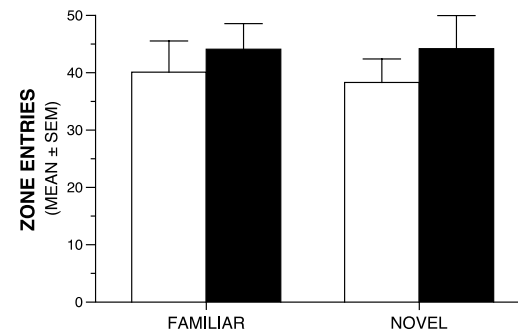
TIME IN INVESTIGATION ZONE



INVESTIGATION ZONE

Significant Genotype x Sex x Zone interaction ($p=.0003$), but no significant comparisons.

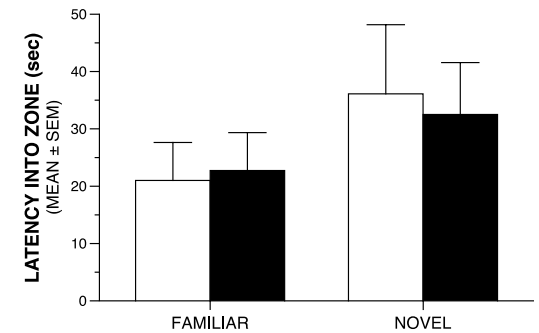
INVESTIGATION ZONE ENTRIES



INVESTIGATION ZONE

Significant Genotype x Sex x Zone interaction ($p=.0002$), but no significant comparisons.

LATENCY INTO INVESTIGATION ZONE

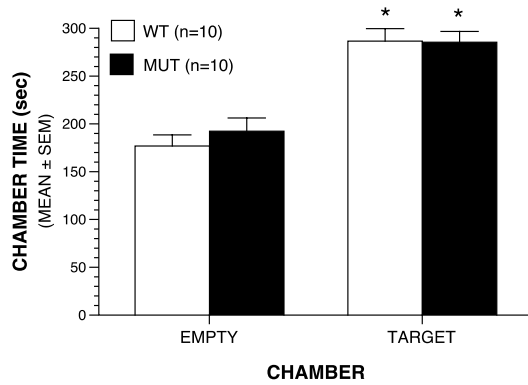


INVESTIGATION ZONE

No significant effects involving Genotype or Sex, and no significant comparisons.

SOCIAL APPROACH TEST TRIAL - CHAMBER VARIABLES

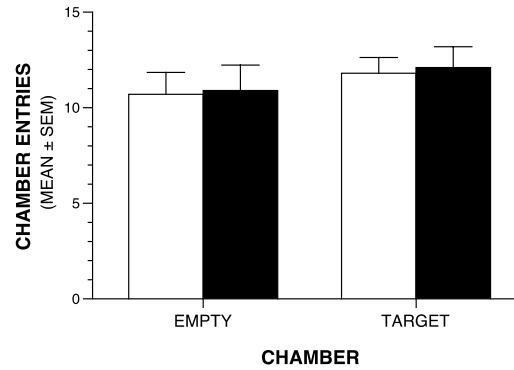
TIME IN CHAMBERS



No significant effects involving Genotype or Sex, and no significant between-groups comparisons.

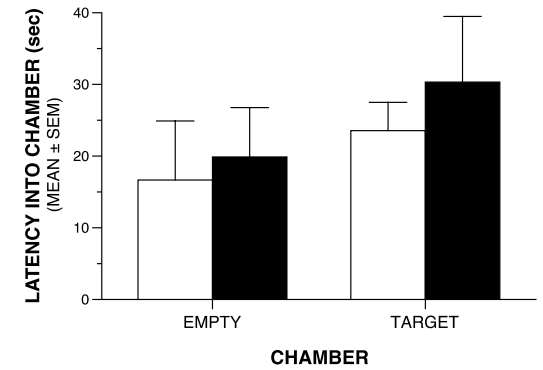
WT: Empty vs Target: * $p=0.0004$.
MUT: Empty vs Target: * $p=0.002$.

ENTRIES INTO CHAMBERS



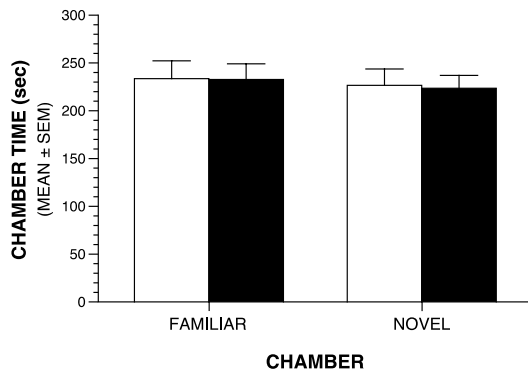
No significant effects involving Genotype or Sex, and no significant comparisons.

LATENCY INTO CHAMBERS



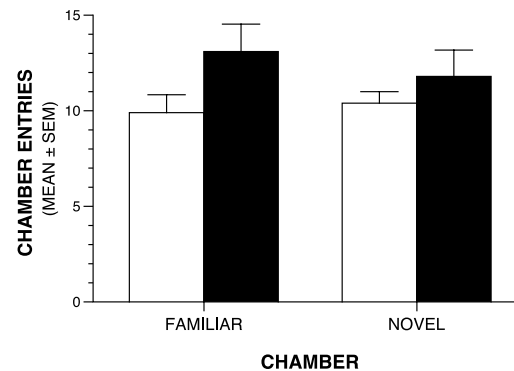
No significant effects involving Genotype or Sex, and no significant comparisons.

TIME IN CHAMBERS



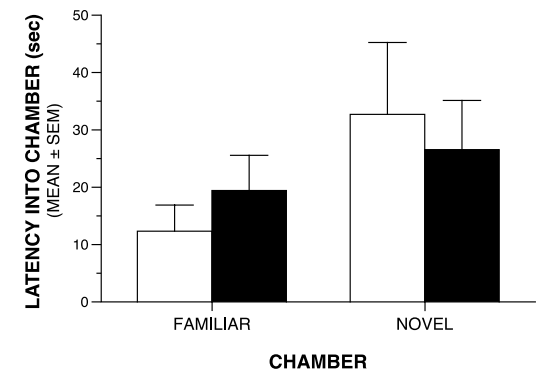
No significant effects involving Genotype, but a significant Sex x Chamber interaction ($p=0.009$). No significant comparisons.

ENTRIES INTO CHAMBERS



No significant effects involving Genotype or Sex, and no significant comparisons.

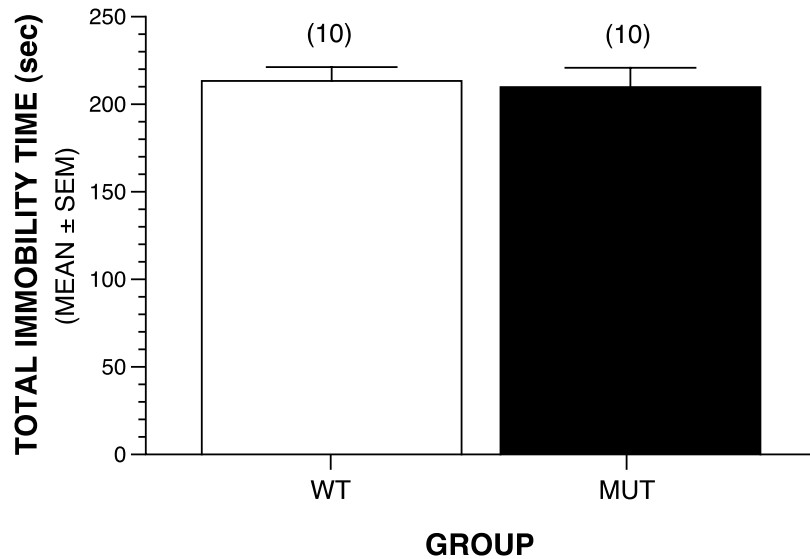
LATENCY INTO CHAMBERS



No significant effects involving Genotype or Sex, and no significant comparisons.

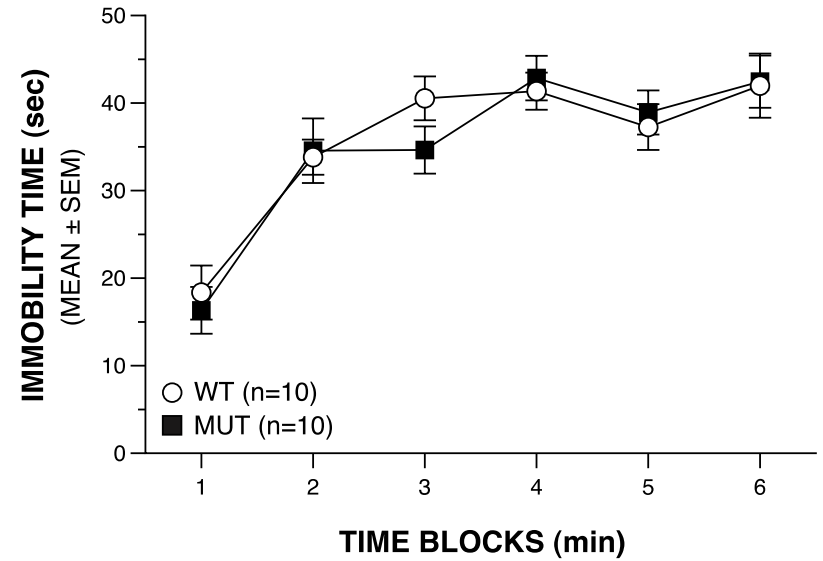
TAIL-SUSPENSION TEST

TOTAL IMMOBILITY TIME



No significant effects involving Genotype or Sex.

IMMOBILITY ACROSS TIME BLOCKS



No significant effects involving Genotype or Sex, and no significant between-groups comparisons.