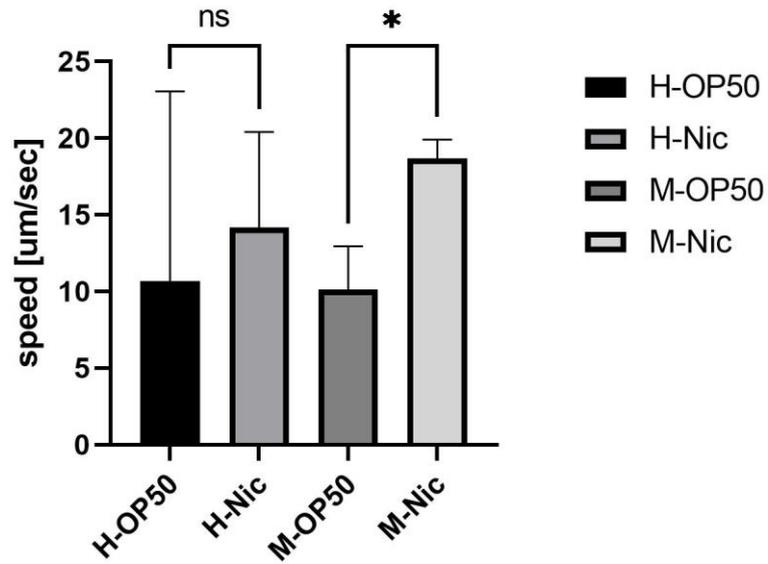
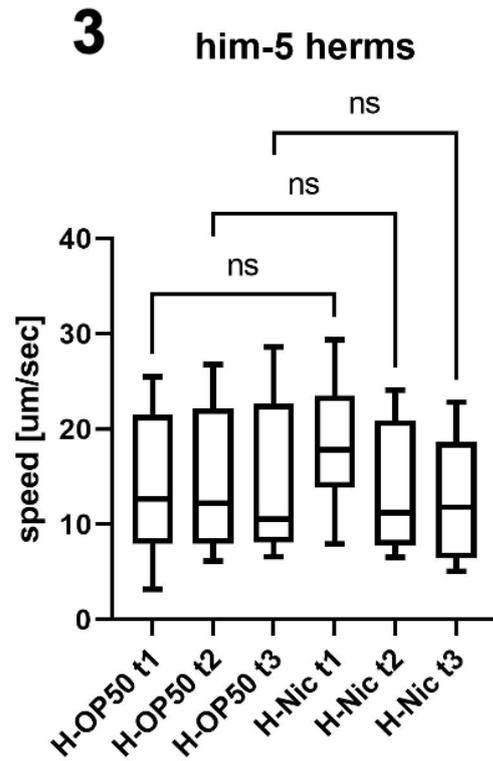
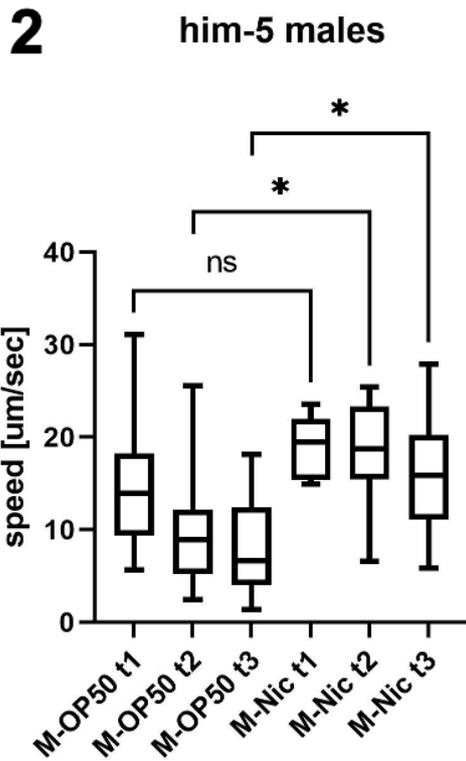


### him-5 all data time total

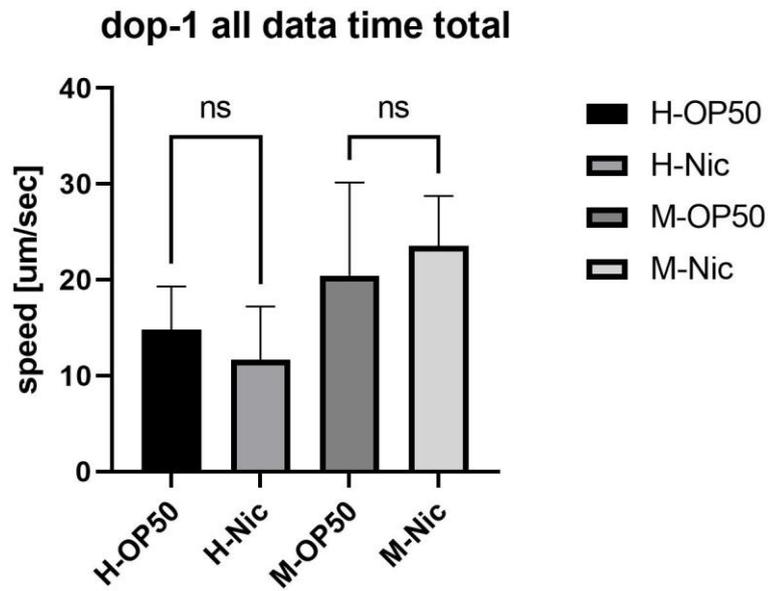


**Figure 1.** Effect of nicotine - NIC (compared to a nicotine-free substrate - OP50) on the overall speed (um / sec) of movement of males and hermaphrodites from the him-5 strain for 15 minutes. Axis X- Distribution of worms into sex and food groups. Hermaphrodite - H, Males - M. Y-axis - speed of movement (um / sec). Statistical test of the type: One-way ANOVA to examine the significance of the nicotine effect, \* P < 0.05, ns: non-significant.

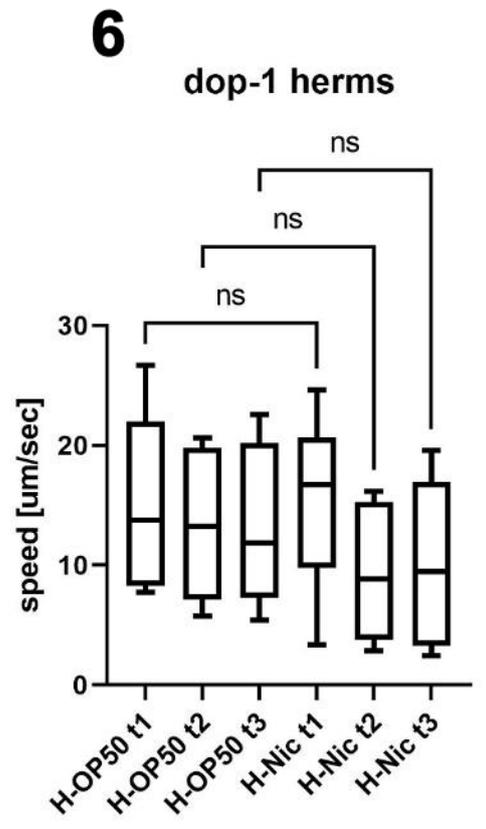
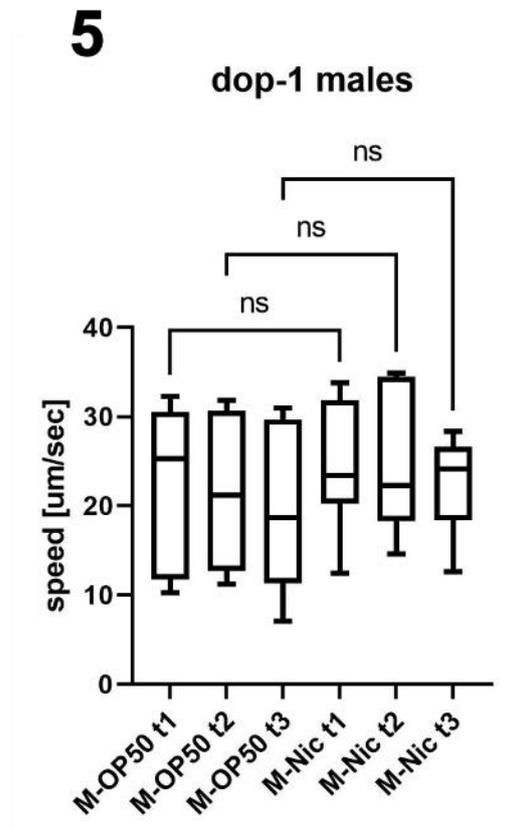


**Figure 2.** Effect of nicotine - NIC (compared to a nicotine-free substrate - OP50) on the speed of movement of him-5 males for 15 minutes at five-minute intervals. Axis X - T1: 0-5; T2: 5-10; T3: 10-15 minutes. Y-axis - speed of movement (um / sec). \*  $P < 0.05$ , ns: non-significant.

**Figure 3.** Effect of nicotine - NIC (compared to a nicotine-free substrate - OP50) on the speed of movement of him-5 hermaphrodites for 15 minutes at five-minute intervals. Axis X - T1: 0-5; T2: 5-10; T3: 10-15 minutes. Y-axis - speed of movement (um / sec). \*  $P < 0.05$ , ns: non-significant.

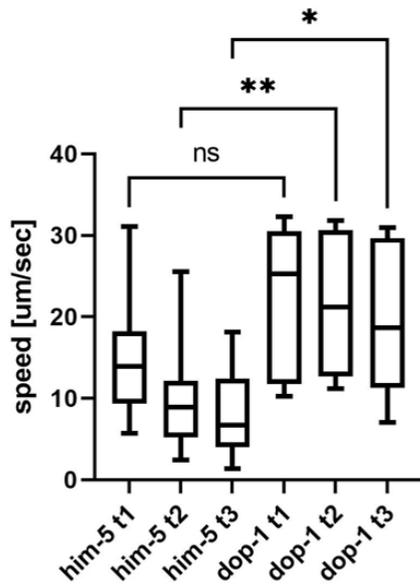


**Figure 4.** Effect of nicotine - NIC (compared to a nicotine-free substrate - OP50) on the overall speed (um / sec) of movement of males and hermaphrodites from the dop-1 strain for 15 minutes. Axis X- Distribution of worms into sex and food groups. Hermaphrodite - H, Males - M. Y-axis - speed of movement (um / sec). Statistical test of the type: One-way ANOVA to examine the significance of the nicotine effect, \* P <0.05, ns: non-significant.

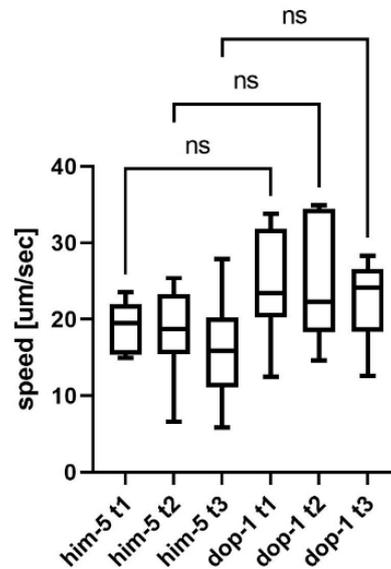


**Figure 5.** Effect of nicotine - NIC (compared to a nicotine-free substrate - OP50) on the speed of movement of dop-1 males for 15 minutes at five-minute intervals. Axis X - T1: 0-5; T2: 5-10; T3: 10-15 minutes. Y-axis - speed of movement (um / sec). \*  $P < 0.05$ , ns: non-significant.

**Figure 6.** Effect of nicotine - NIC (compared to a nicotine-free substrate - OP50) on the speed of movement of dop-1 hermaphrodites for 15 minutes at five-minute intervals. Axis X - T1: 0-5; T2: 5-10; T3: 10-15 minutes. Y-axis - speed of movement (um / sec). \*  $P < 0.05$ , ns: non-significant.

**7****him-5 vs. dop-1 males OP50**

**Figure 7.** Effect of nicotine on the speed (um/sec) of movement of males from the breeds: him-5 and dop-1 lasted 15 minutes at five-minute intervals. Axis X - T1: 0-5; T2: 5-10; T3: 10-15 minutes. Y-axis - speed of movement (um / sec). \* P <0.05, ns: non-significant.

**8****him-5 vs. dop-1 males nicotine**

**Figure 8.** Speed (um/sec) of movement of males of the him-5 and dop-1 strains not exposed to nicotine for 15 minutes at five-minute intervals. Axis X - T1: 0-5; T2: 5-10; T3: 10-15 minutes. Y-axis - speed of movement (um / sec). \* P <0.05, ns: non-significant.