

Pymaceuticals Analysis (Module 5)

Reviewing the data it's clear that Capomulin and Ramicane are the top best performing regimens, appearing to perform equally well (Bar plot and Box plot). Both regimens had mice with the longest timepoint (Summary statistics section, Data frame: pharma_df3).

Comparing Capomulin and Ramicane in more details, Ramicane performs better than Capomulin on multiple statistics, (leaderboard/Data Frame: pharma_df3). Follow-up and more detailed analysis are recommended for Tumor Volume and Timepoints for each individual mice of Capomulin Regimen.

During review/analysis of Mouse "I509", it a sharp increase in Tumor volume size before a sharp drop in volume/size. Analyzing if this is specific for this particular mouse or if all mice experienced the same event is recommended since the short-term increase in size can be misleading indicator of drug efficacy.

Additional analysis by gender would also be informative and a more equal number of male and female mice would allow for more accurate representation and data.

In conclusion, Capomulin was top performing drug regimen with recommendation for further analysis by gender and focusing on tumor volume/size for each individual mouse on Capomulin.