

STA 440 Case 2

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Introduction

Data

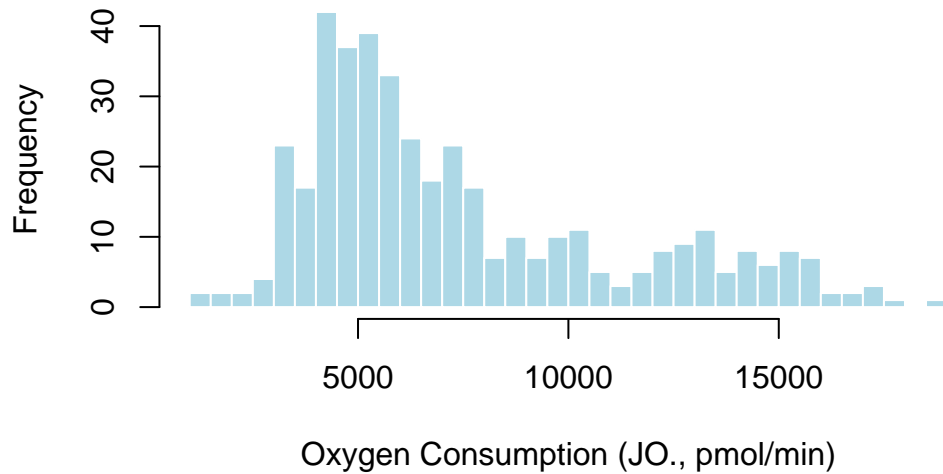
Rows: 412

Columns: 6

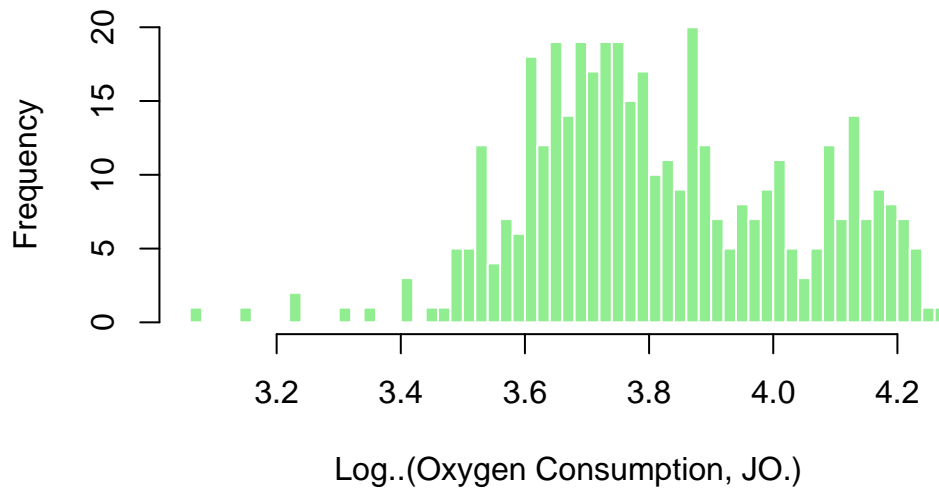
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$ Subject <chr> "NT1", "NT1", "NT1", "NT1", "NT1", "NT1", "NT1", "NT1", "NT1~  
$ Substrate <chr> "GM (Glutamate/Malate)", "GM (Glutamate/Malate)", "GM (Gluta~  
$ Dose <ord> -12.95, -13.65, -13.95, -14.19, -14.36, -14.49, -12.95, -13.~  
$ JO2 <dbl> 13626.77, 11946.57, 8950.77, 6921.53, 5487.89, 4464.86, 1345~  
$ Genotype <chr> "NT", "NT", "NT", "NT", "NT", "NT", "NT", "NT", "NT", "NT", ~  
$ Dose_num <dbl> -12.95, -13.65, -13.95, -14.19, -14.36, -14.49, -12.95, -13.~
```

Exploratory Data Analysis

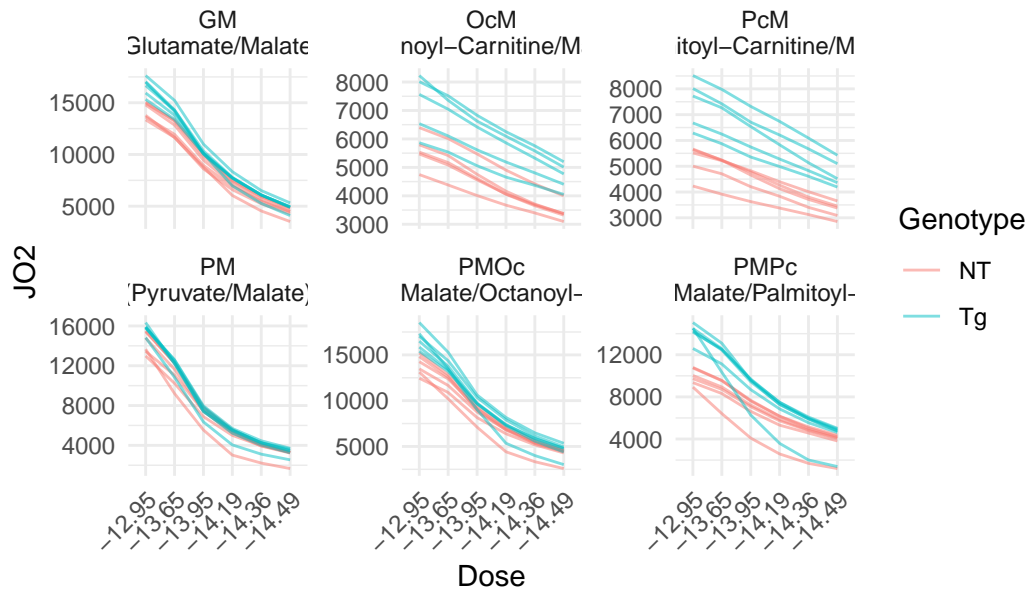
Distribution of Raw JO. Values



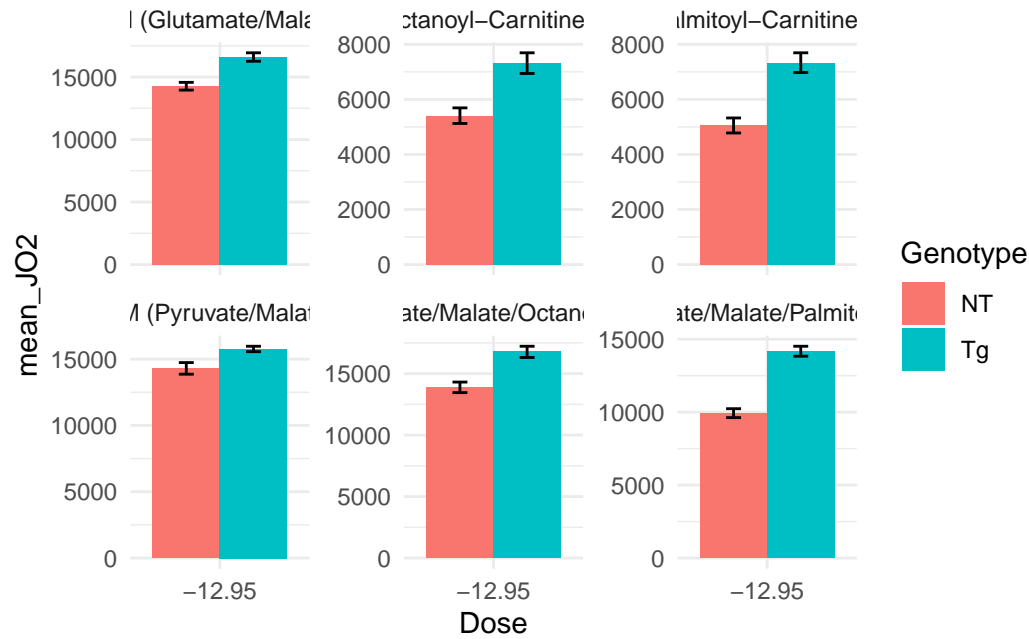
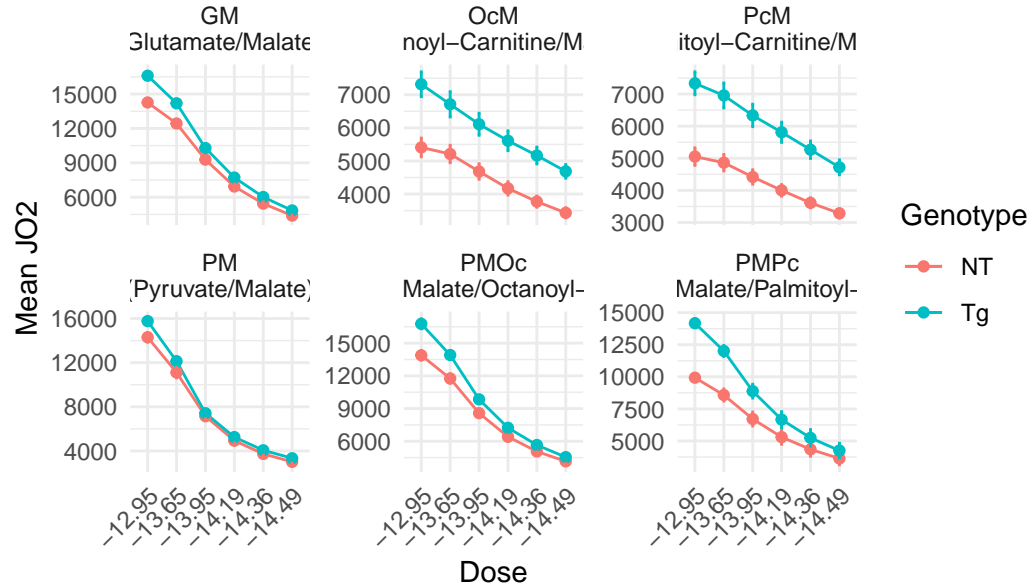
Distribution of Log.-Transformed JO. Values

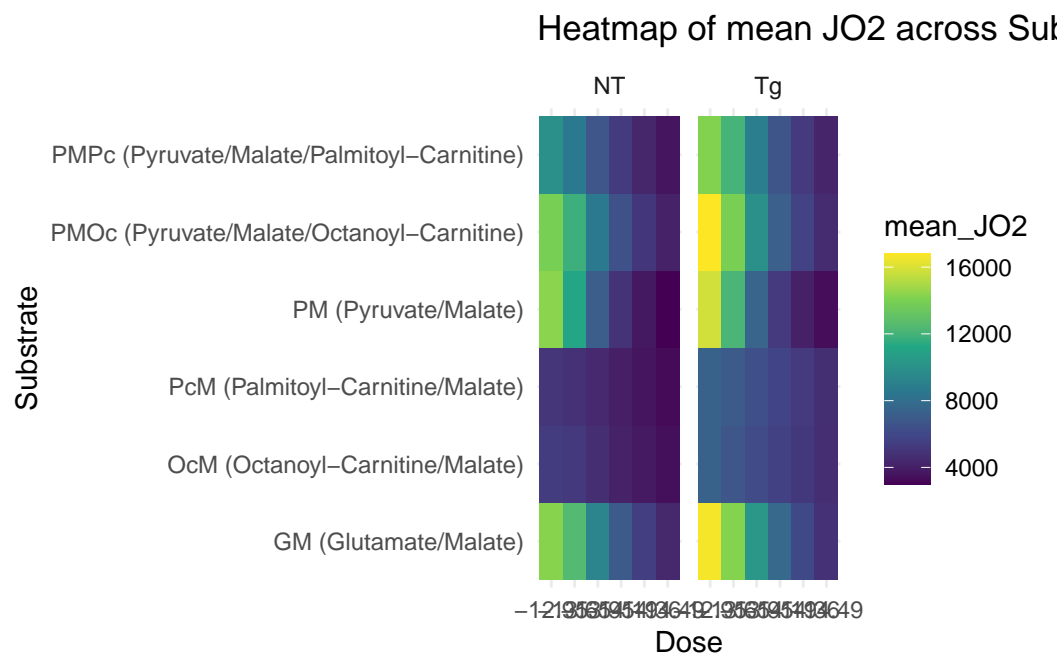
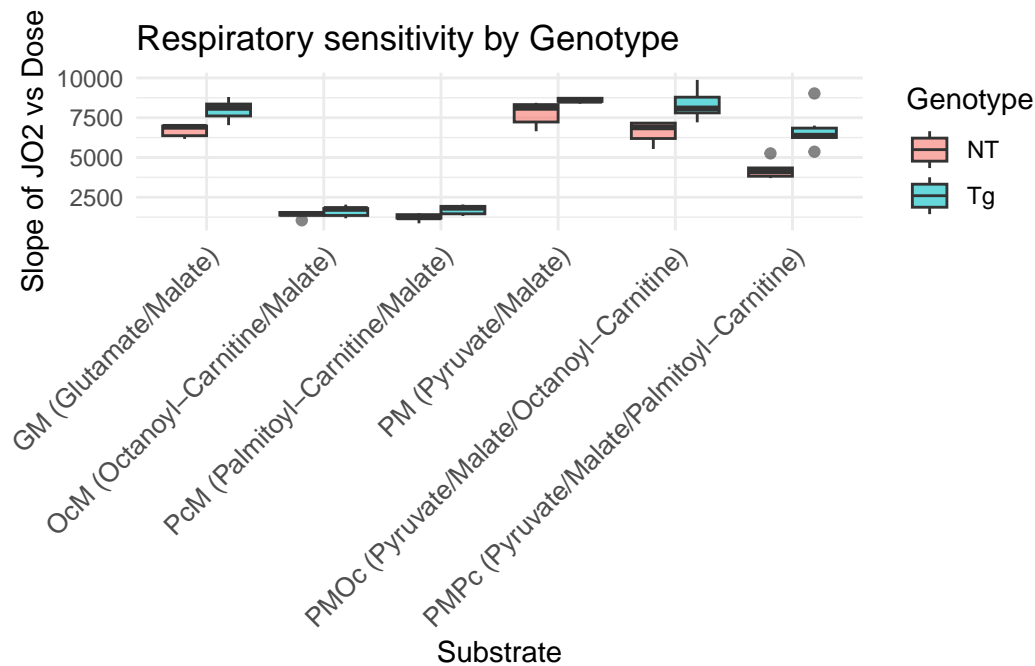


JO2 across Dose by Substrate and Genotype



Mean JO2 ± SE





Model

Results

Conclusion

Limitations and Future Work

Appendix