**SUPPLEMENTAL INFORMATION**

**Regional differences in energy allocation of black sea bass (*Centropristis striata*) along the US Northeast Shelf (36°N - 42°N) and throughout the spawning season**

Emily Slesinger1\*, Kiernan Bates1, Mark Wuenschel2, and Grace K. Saba1

TABLES

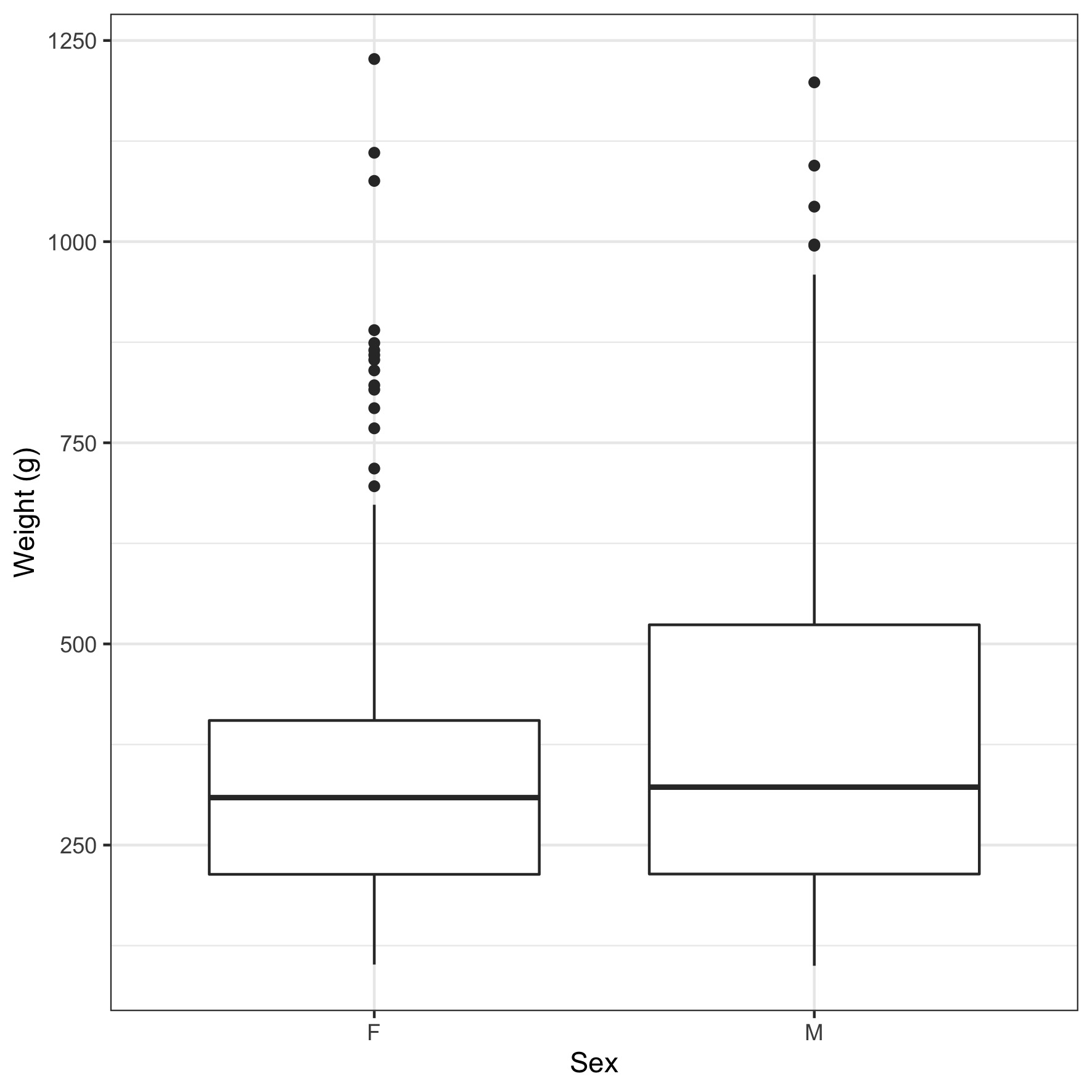
SI Table 1. The models used in analysis, their distribution family and link functions.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Analysis | Response variable | Model | Distribution family | Link |
| Compositional | LC (g lipid/g dry weight) | GLM | Beta | Logit |
| ED (kJ/g wet weight) | GLM | Gamma | Inverse |
| TE (kJ) | GLM | Gamma | Log |
| Seasonal | LTE | GAM | Gamma | Log |
| GTE | GAM | Gamma | Log |

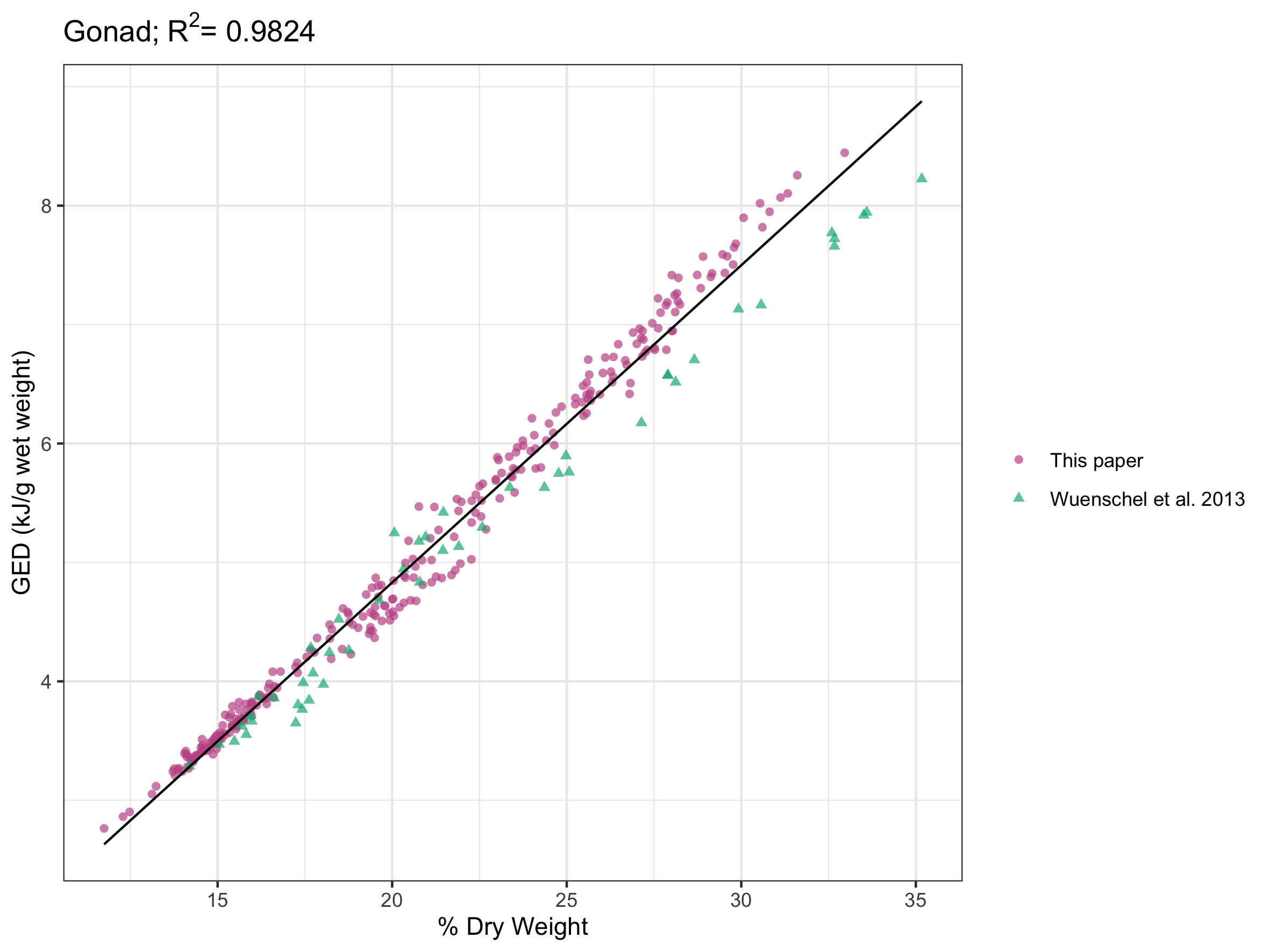
SI Table 2. BIC values used to compete the null and regional models. Bold values indicate the lowest BIC and the chosen model

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Tissue | Sex | Model | Measurement | | |
| LC (g/g DW) | ED (kJ/g WW) | TE (kJ) |
| Muscle | All | Null | **-1554.69** | 262.97 | NA |
| Regional | -1540.56 | **215.11** | NA |
| Liver | F | Null | -225.20 | 652.30 | 1376.39 |
| Regional | **-237.98** | **646.75** | **1364.76** |
| M | Null | -195.60 | **446.64** | 1006.90 |
| Regional | **-198.83** | 449.71 | **1004.27** |
| Gonad | F | Null | -549.70 | 485.49 | 1642.10 |
| Regional | **-566.83** | **478.55** | **1628.76** |
| M | Null | -518.79 | **129.61** | **996.12** |
| Regional | **-522.34** | 141.43 | 999.10 |

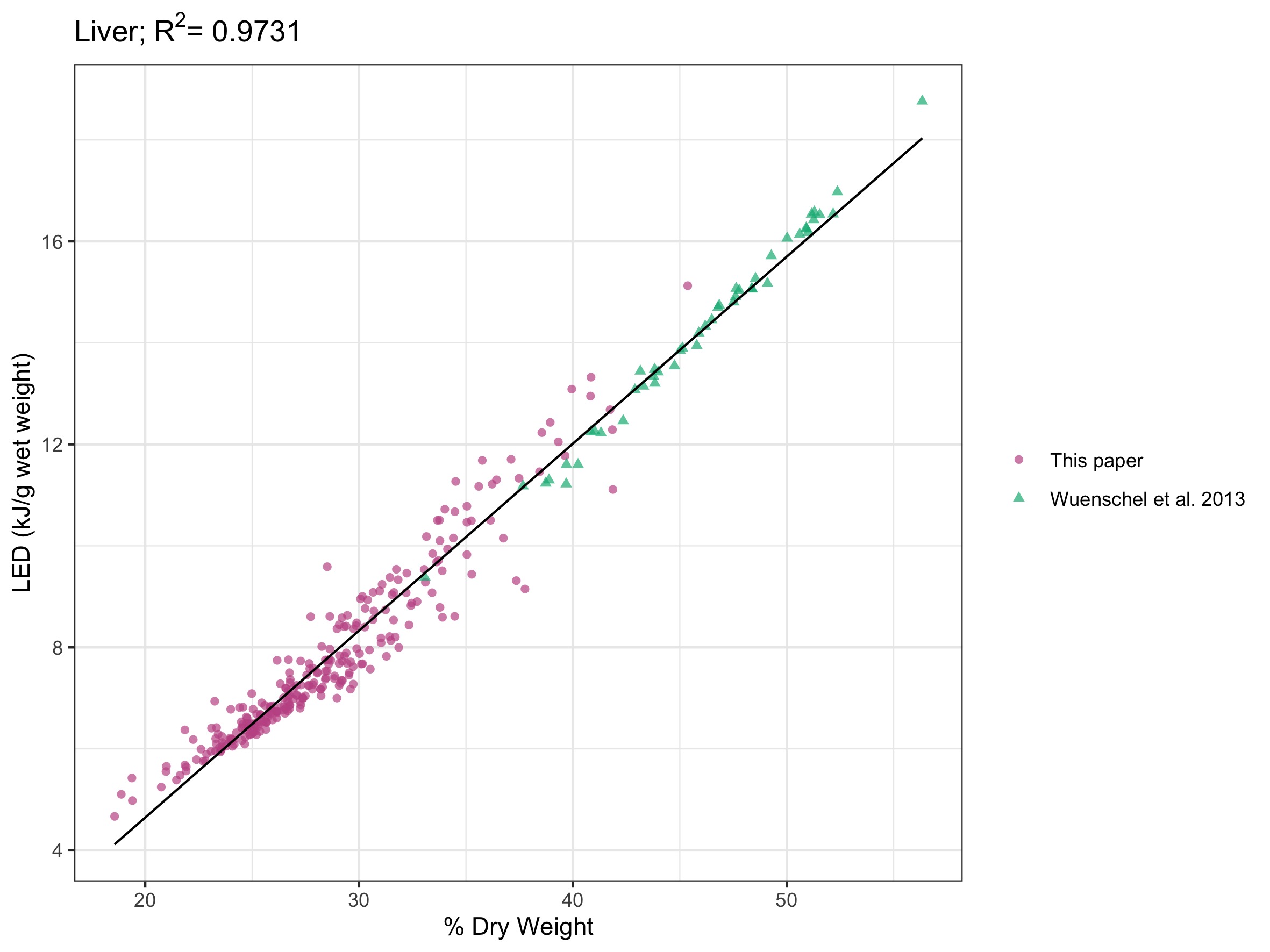
FIGURES



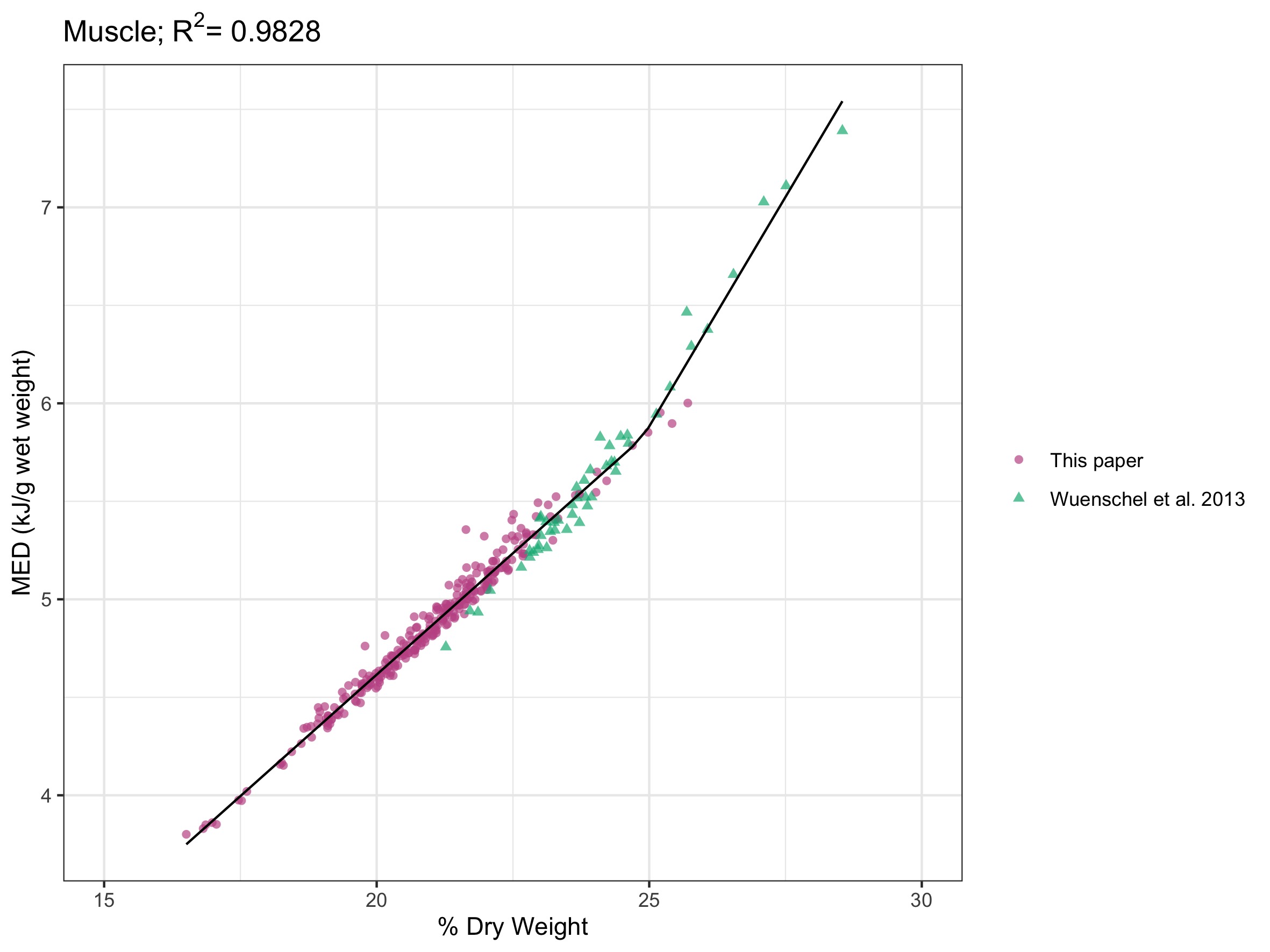
SI Figure 1. The size distribution between female and male fish of individuals used in this study.



SI Figure 2. Linear trend of gonad % dry weight to GED for this paper and data from Wuenschel et al. 2013 to assess fit of our estimated ED values from those already published for *C. striata*.



SI Figure 3. Linear trend of liver % dry weight to LED for this paper and data from Wuenschel et al. 2013 to assess fit of our estimated ED values from those already published for *C. striata*.



SI Figure 4. Regression of muscle % dry weight to MED, using a broken stick regression, for this paper and data from Wuenschel et al. 2013 to assess fit of our estimated ED values from those already published for *C. striata*.