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| **Variables** | **Description** |
| Bio1 | Annual Mean Temperature Range(℃) |
| Bio2 | Mean Diurnal Temperature Range(℃) |
| Bio3 | Isothermality(℃) |
| Bio4 | Temperature Seasonality(℃) |
| Bio6 | Min Temperature of Coldest Month(℃) |
| Bio9 | Mean Temperature of Driest Quarter(℃) |
| Bio12 | Annual Precipitation(mm) |
| Bio14 | Precipitation of Driest Month(mm) |
| Bio15 | Precipitation Seasonality |

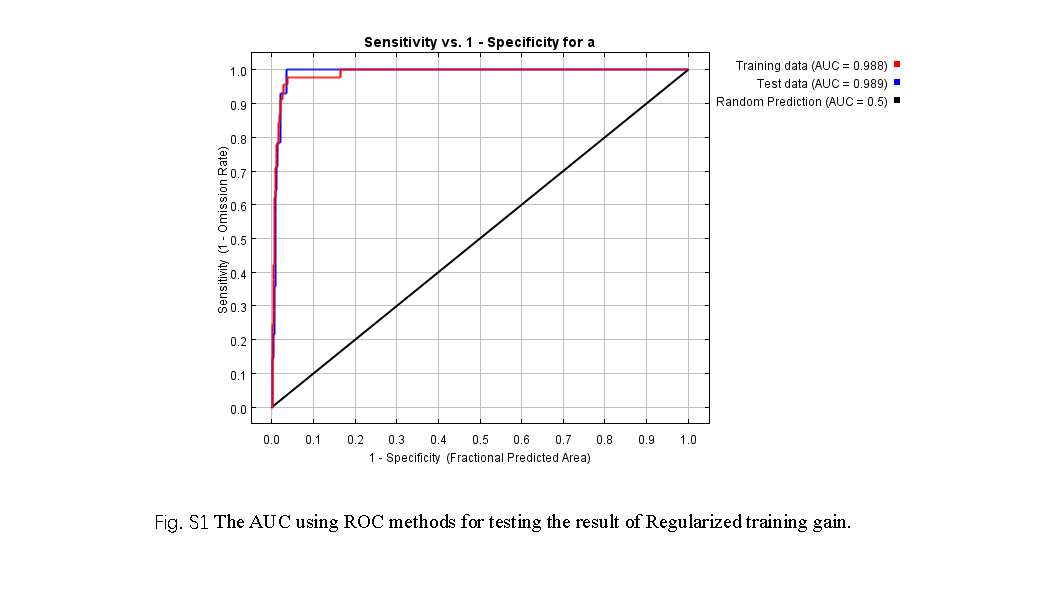
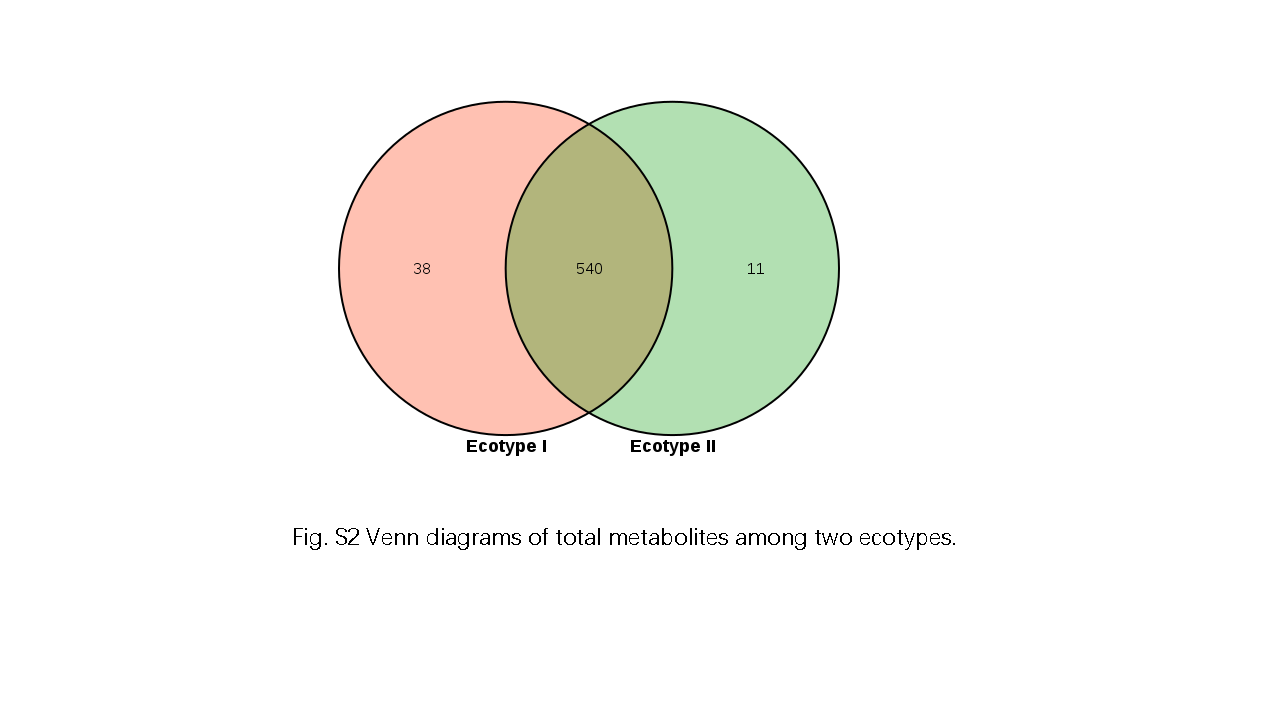
Figure S1 The AUC using ROC methods for testing the result of Regularized training gain.

Figure S2 Venn diagrams of total metabolites among two ecotypes.