Chart, bar chart, box and whisker chart

Description automatically generated

Figure 4: To quantify the visual trends we see in figure 3 we need to account for the fold-change in mutation load between PRE and OT and between OT and EOS. The mutation load score accounts for the three fold changes (PRE to OT, OT to EOS, and PRE to EOS) as well as average mutation load. (I) Box plots of mutation load score for all patients grouped by PFS quartiles. (II) same as (I) but with patients further grouped by treatment arm.

Chart, scatter chart

Description automatically generated

Supplementary Figure 4: Similar to figure 4 but using the score per gene (instead of for mutation load) per patient. (a) Box plots of gene score across all patients. (II)) Same as (I) but with patients grouped by treatment arm.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Time 1** | **Class 1** | **Time 2** | **Class 2** | **P-value** |
| OT | Q1 | OT | Q4 | **0.0006665** |
| EOS | Q1 | EOS | Q4 | **0.0017608** |
| OT | Q1 | OT | Q3 | **0.0075069** |
| EOS | Q2 | EOS | Q4 | **0.0108059** |
| OT | Q1 | OT | Q2 | **0.0241165** |
| PRE | Q1 | PRE | Q4 | **0.1191778** |
| EOS | Q3 | EOS | Q4 | **0.2357813** |
| PRE | Q3 | PRE | Q4 | **0.2906762** |
| PRE | Q1 | PRE | Q3 | **0.4009503** |
| EOS | Q1 | EOS | Q3 | **0.4137198** |
| OT | Q3 | OT | Q4 | **0.4555966** |
| EOS | Q2 | EOS | Q3 | **0.4746083** |
| PRE | Q2 | PRE | Q3 | **0.5302678** |
| OT | Q2 | OT | Q4 | **0.6212373** |
| EOS | Q1 | EOS | Q2 | **0.6405957** |
| PRE | Q2 | PRE | Q4 | **0.6563177** |
| PRE | Q1 | PRE | Q2 | **0.6747866** |
| OT | Q2 | OT | Q3 | **0.7382593** |

Table 1: P-values from a chi-square test of homogeneity comparing the same timepoint

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Time 1** | **Class 1** | **Arm 1** | **Time 2** | **Class 2** | **Arm 2** | **P-value** |
| PRE | Q3 | B | OT | Q3 | B | **0.0001274** |
| PRE | Q2 | B | OT | Q2 | B | **0.0005683** |
| PRE | Q4 | A | OT | Q4 | A | **0.0022977** |
| PRE | Q3 | A | OT | Q3 | A | **0.0025564** |
| PRE | Q4 | B | EOS | Q4 | B | **0.0027625** |
| PRE | Q2 | A | OT | Q2 | A | **0.0047045** |
| PRE | Q4 | B | OT | Q4 | B | **0.0093068** |
| OT | Q2 | B | EOS | Q2 | B | **0.0183602** |
| PRE | Q3 | B | EOS | Q3 | B | **0.0408947** |
| PRE | Q2 | A | EOS | Q2 | A | **0.0463832** |
| PRE | Q1 | A | OT | Q1 | A | **0.0513583** |
| PRE | Q1 | A | EOS | Q1 | A | **0.0566851** |
| PRE | Q4 | A | EOS | Q4 | A | **0.0707683** |
| OT | Q4 | A | EOS | Q4 | A | **0.0812876** |
| OT | Q3 | A | EOS | Q3 | A | **0.1226699** |
| OT | Q2 | A | EOS | Q2 | A | **0.2568791** |
| PRE | Q1 | B | EOS | Q1 | B | **0.2689899** |
| PRE | Q2 | B | EOS | Q2 | B | **0.2785390** |
| PRE | Q1 | B | OT | Q1 | B | **0.3402412** |
| OT | Q3 | B | EOS | Q3 | B | **0.3444711** |
| OT | Q1 | A | EOS | Q1 | A | **0.3775008** |
| PRE | Q3 | A | EOS | Q3 | A | **0.4099874** |
| OT | Q4 | B | EOS | Q4 | B | **0.4682607** |
| OT | Q1 | B | EOS | Q1 | B | **0.7659955** |

Table 2: P-values from a chi-square test of homogeneity comparing the same PFS class and treatment arms between different time points.