



### Additional file 3

#### Pair-wise scatter plot among pre-sequencing lab metrics and post sequencing bioinformatics metrics

Pre-sequencing lab metrics include RNA concentration and library concentration (ng/ul). Post sequencing bioinformatics metrics include number of gene mapped reads, sample wise median correlation, number of detected genes with TPM>4. Scatter plots within the left triangle illustrate the relationship between two metrics colored by bioinformatics qc status (red for FAIL, green for PASS). The diagonal histograms indicate distribution of a certain metric separated by QC status. The upper triangle shows the spearman correlation between two metrics. Significant correlations were marked with \*. Correlations were also calculated separately for qc-pass and qc-fail groups. The rightmost column shows boxplots of a certain metric grouped by qc status.