

Description of Additional Supplementary Files

File Name: Supplementary Data 1

Description: Detailed growth and stress conditions for each species in PATHOgenex RNA atlas

File Name: Supplementary Data 2

Description: Number of total reads and mapping efficiency for each RNA-seq library

File Name: Supplementary Data 3

Description: The general PTDEX scores of KEGG orthology groups in every stress condition tested

File Name: Supplementary Data 4

Description: The generalPTDEX scores of PGFam gene groups in every stress condition tested

File Name: Supplementary Data 5

Description: Gram negative specific PTDEX scores of PGFams gene groups for each stress condition together with associated modules

File Name: Supplementary Data 6

Description: Gram positive specific PTDEX scores of PGFam gene groups for each stress condition together with associated modules

File Name: Supplementary Data 7

Description: PGfam gene groups with high PTDEX scores in multiple conditions

File Name: Supplementary Data 8

Description: Species-specific USRs. The plus sign indicates differential regulation under linked stress condition

File Name: Supplementary Data 9

Description: *P. aeruginosa* (PAO1) and *S. aureus* strain 6850 differentially expressed genes during infection and their differential expression under different stress conditions

File Name: Supplementary Data 10

Description: Statistical analysis on percentages of reads mapped to non-CDS regions. The table shows the adjusted p-value with one-way ANOVA of comparisons for each stress condition to the control. The analysis was done with three biological replicates. RNA-seq were not performed with conditions indicated as 'N/A'.