



ESI. 2. Statistical analysis for gene expression of 3w and 5w Silica and CaCO<sub>3</sub> Co-cultured systems relative to the normalizing pure silk by each gen is shown. At 0.05 level, the population means are significantly different for all the systems analyzed under One-Way ANOVA with Tukey and Fisher pos hoc treatment, except for BSP expression from CaCO<sub>3</sub> matrices after 5w of Co-culture.