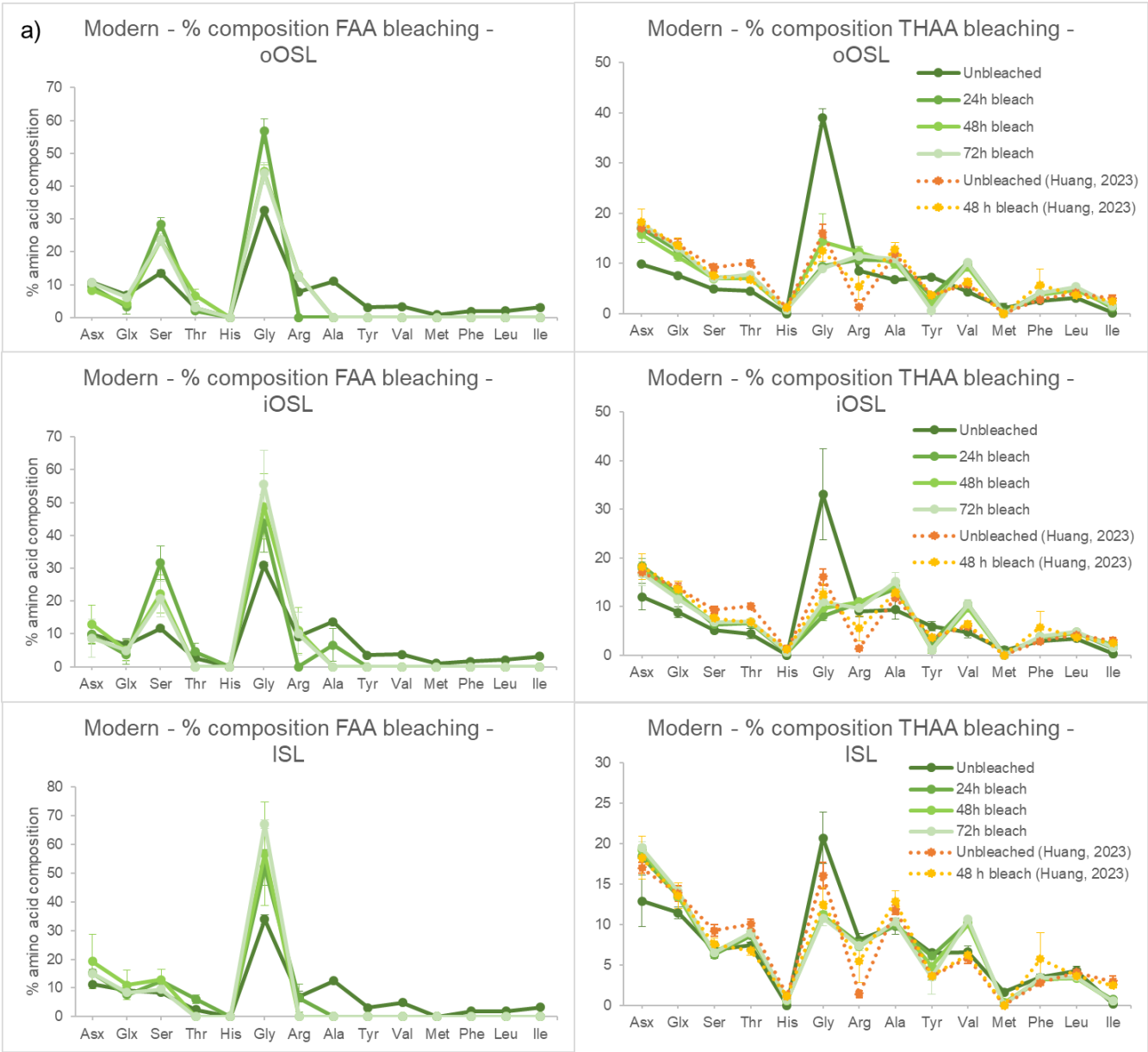


Fig. S1



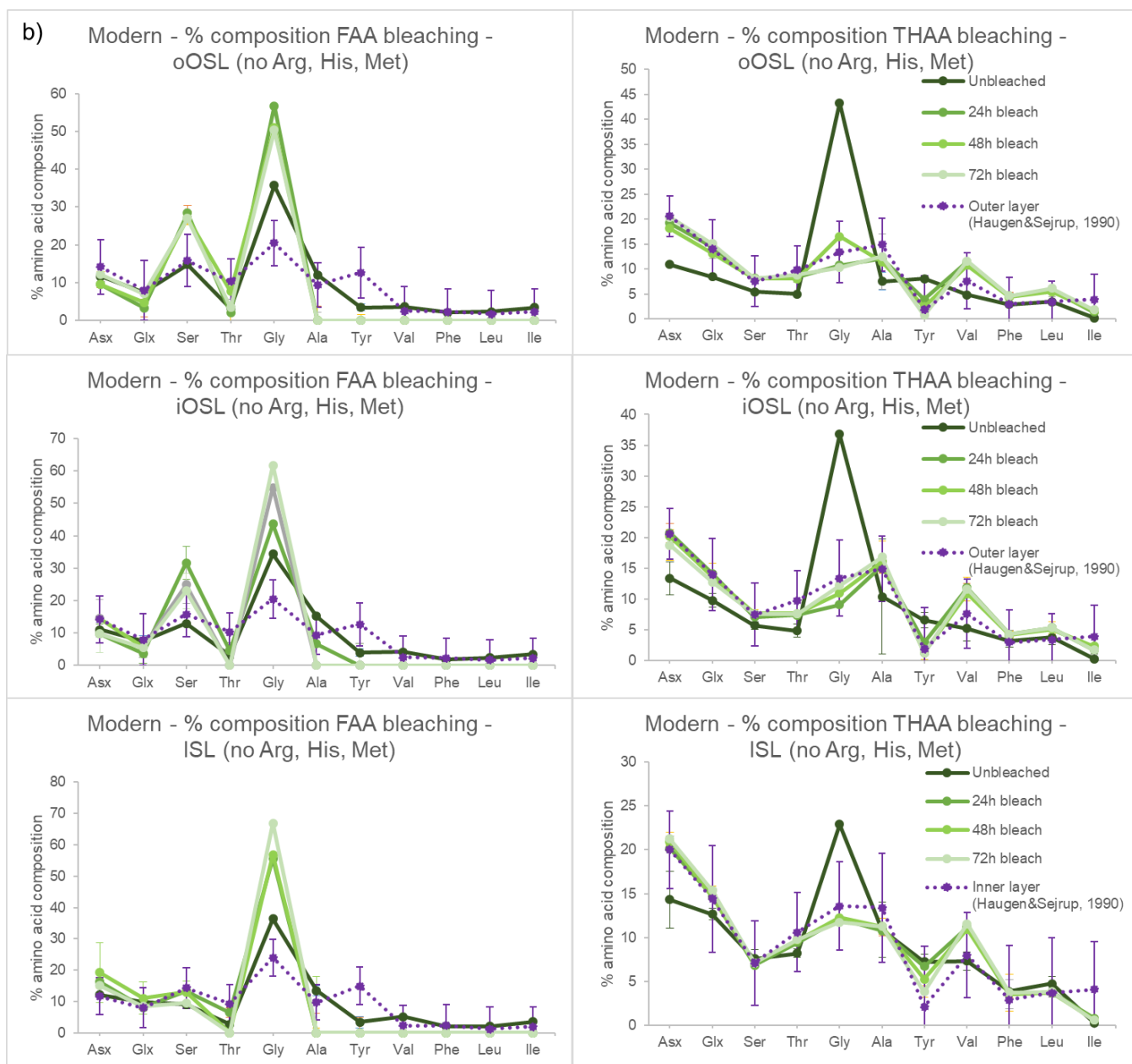


Fig. S1. (a) Amino acid composition of the three layers of modern *A. islandica* from Peterhead unbleached and with 24-72 h bleaching. Error bars indicate one standard deviation based on three replicates. (b) Percentage composition of the unbleached outer and inner layers of *A. islandica* from Haugen and Sejrup (1990) also plotted (purple dashed line) over the amino acid composition of modern bleaching experiments from this study.