**C:\Users\hbe257\OneDrive - University of Kentucky\Desktop\Aging METs\Figs to use\Supp1.tiff**

**Supplementary Figure S1a.**  
**Z-scored heatmap of top 50 annotated LC-MS metabolites for Maltster A.**  
Heatmap shows z-score–normalized metabolite abundance. Red indicates higher-than-average abundance; blue indicates lower-than-average abundance across timepoints. Metabolites are grouped by chemical class and represent the top 50 most variable LC-MS features detected in Maltster A samples during storage. Color gradient reflects Z-score transformed relative abundance. Clustering indicates temporal trends in metabolite stability and fluctuation.

**Supplementary Figure S1b.**  
**Z-scored heatmap of top 50 annotated LC-MS metabolites for Maltster B.**  
As in S1a, this heatmap visualizes the top 50 LC-MS features across storage timepoints for Maltster B. Greater variability is observed relative to Maltster A, with shifts in classes such as ceramides, long-chain fatty acids, and phosphoethanolamines.