

## Description of Additional Supplementary Files

File Name: Supplementary Data 1

Description: JGI IMG Gene IDs, e-values, and percent identities for sterol biosynthesis homologs shown in Figure 3.

File Name: Supplementary Data 2

Description: Raw EIC data used to generate the chromatograms in Figure 1.

File Name: Supplementary Data 3

Description: Raw mass spectrometry data used to generate the spectra in Supplementary Figure 3.