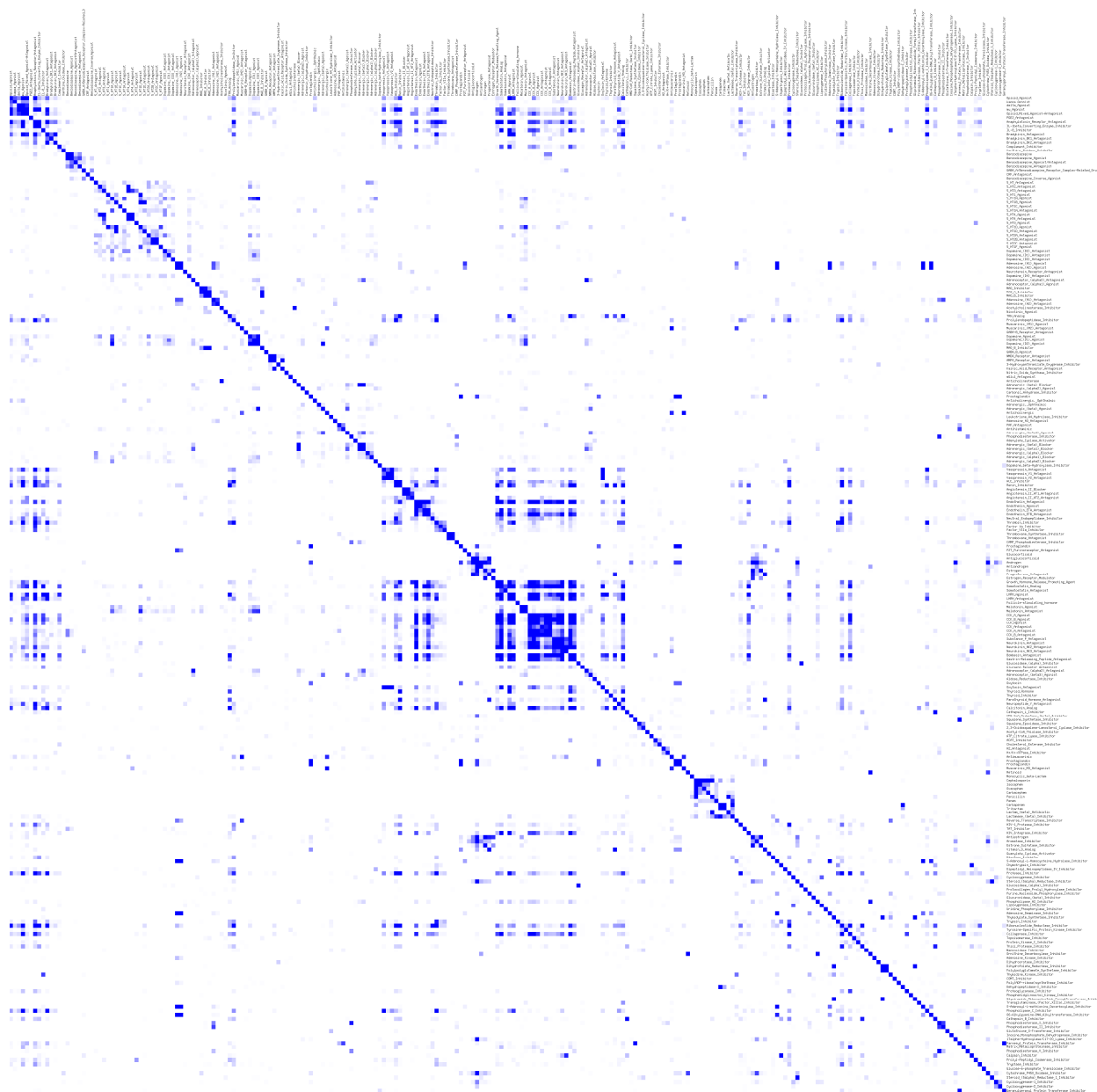


Supplementary Figure 7 SEA heat map of MDDR activity classes compared against themselves



This heat map is an alternate representation of the same SEA E-value matrix data used to build the naïve network graph and similarity maps of **Figure 2**. The 246 MDDR activity classes under consideration form the x- and y-axis, and any given cell is colored by the natural log of the SEA E-value of the comparison between the two relevant activity classes. White represents weak or no similarity (E-value of 1×10^5 and above), and dark blue high similarity (E-value of 1×10^{-50} or

better). This heat map was subtracted from that in **Supplementary Figure 6** to create **Figure 3**, as described in **Methods**.