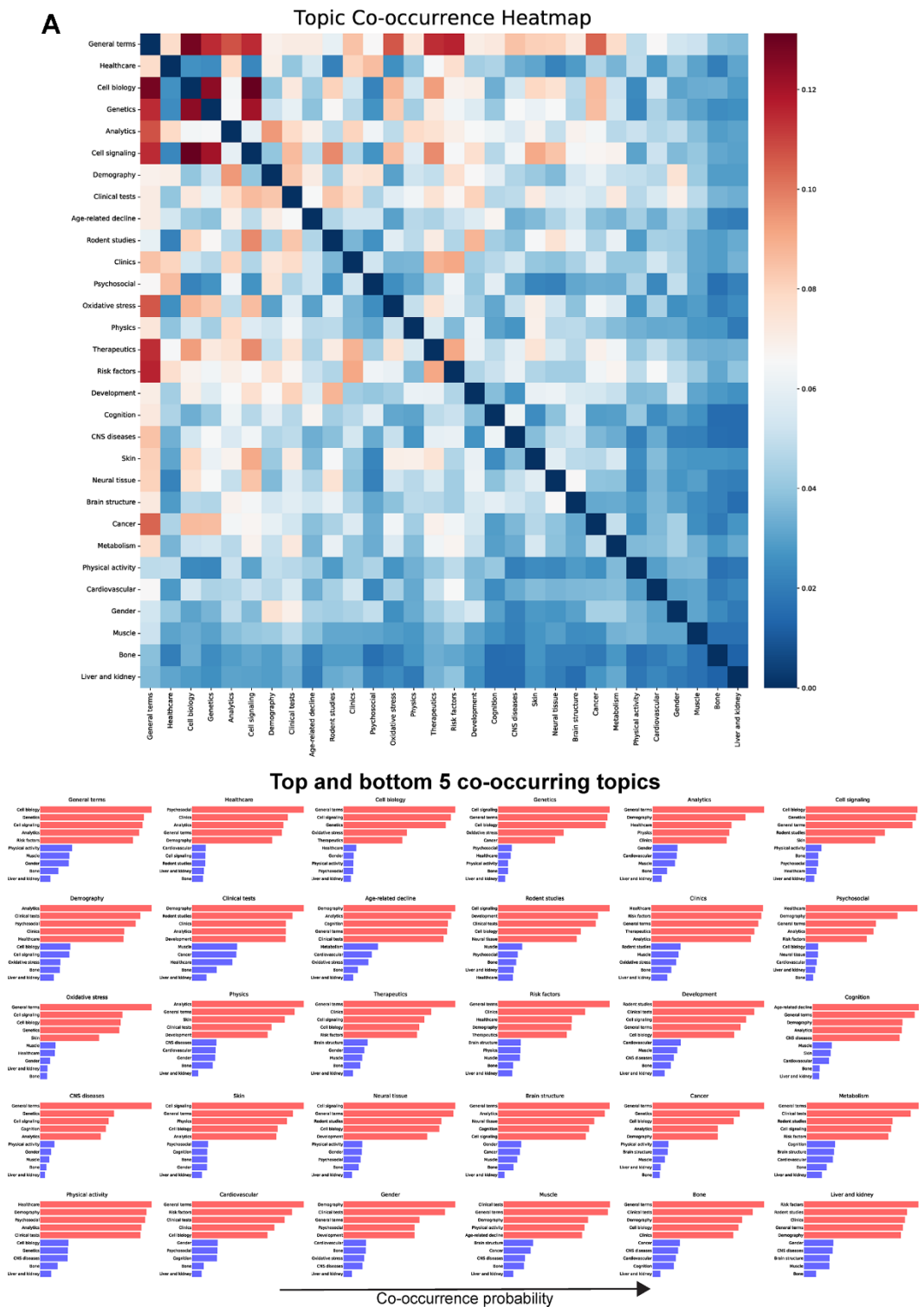
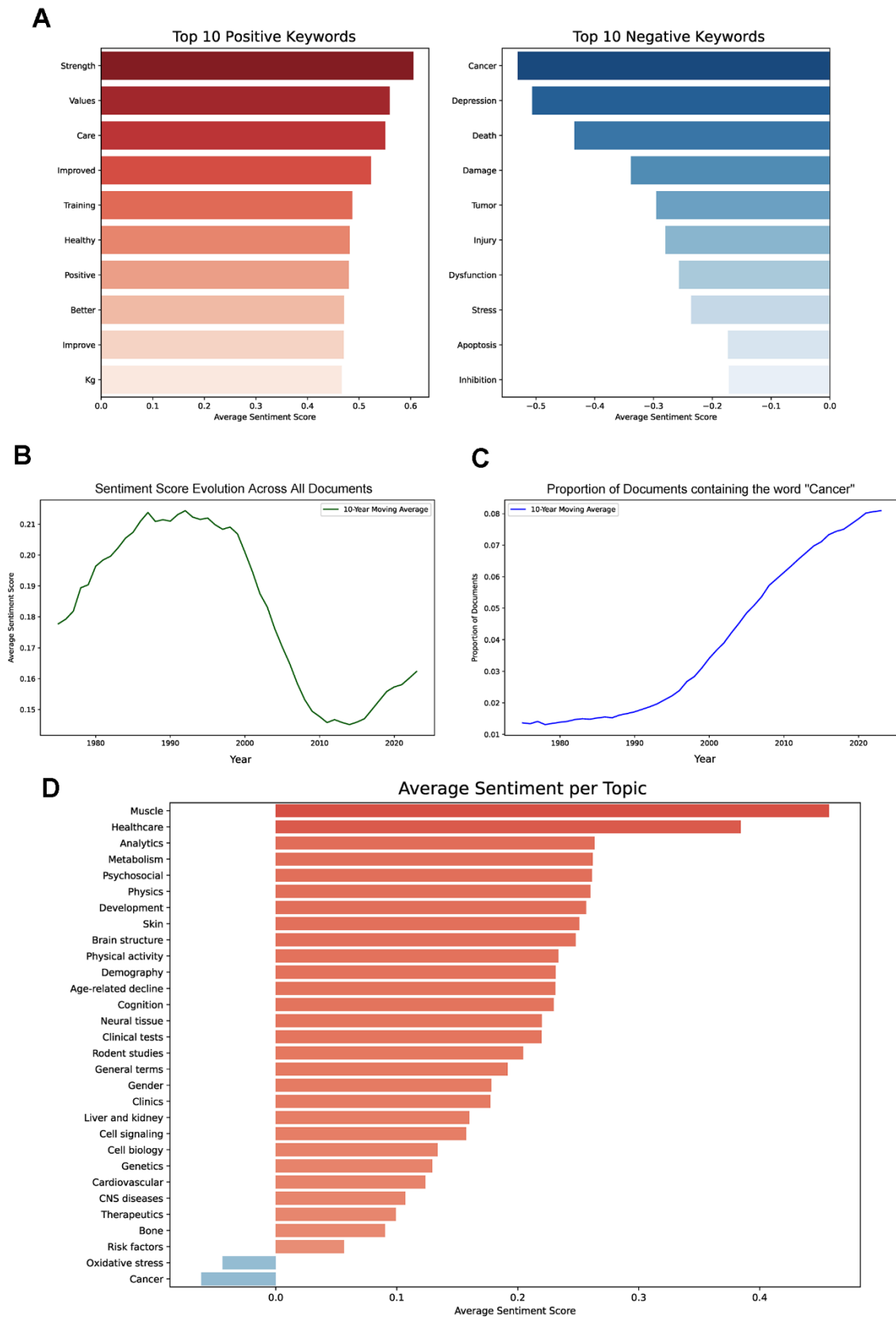


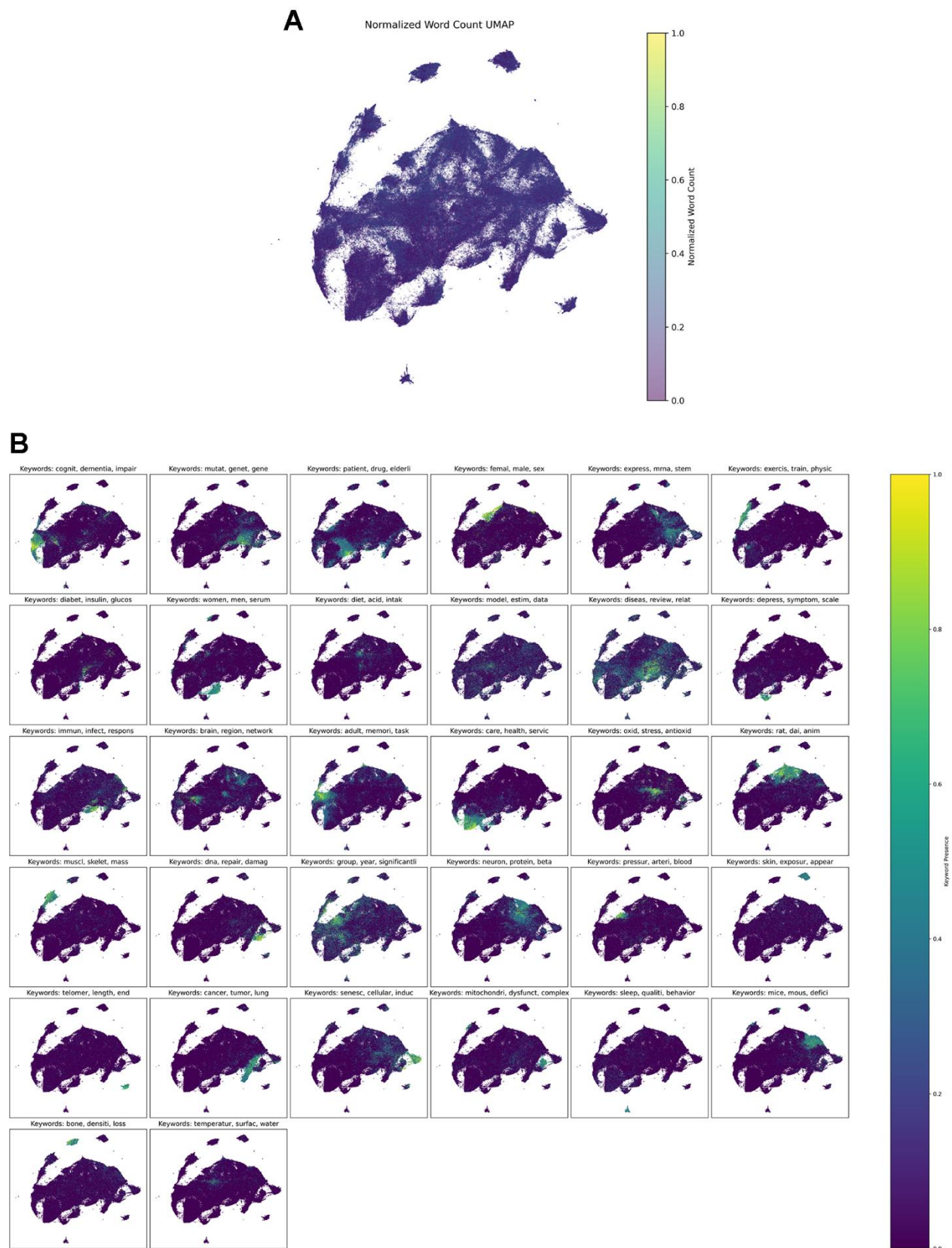
SUPPLEMENTARY FIGURES



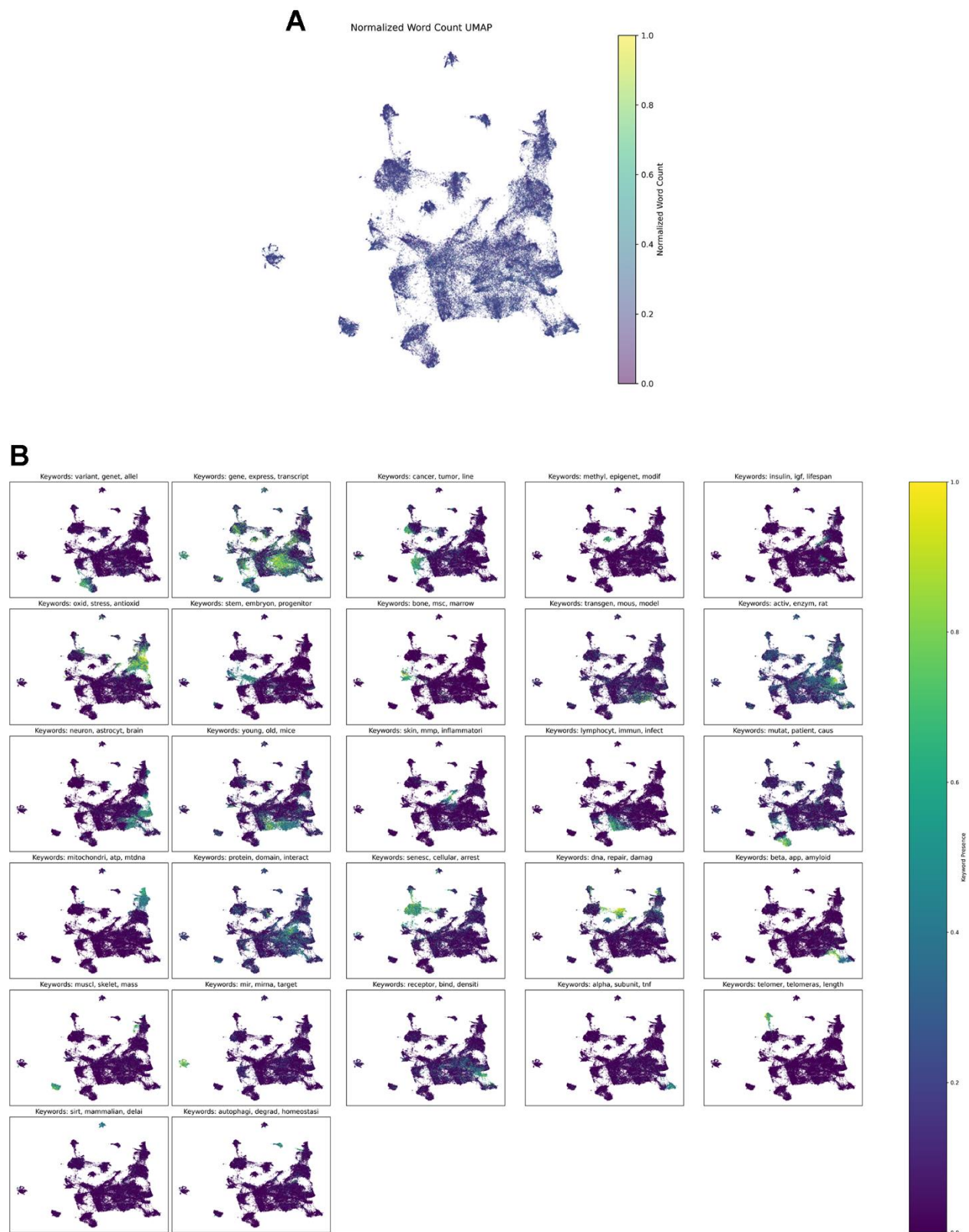
Supplementary Figure 1. Topic co-occurrence in aging research literature. (A) Heatmap of co-occurrence probability among all topics from LDA model with bar plots showcasing top and bottom 5 co-occurring topics.



Supplementary Figure 2. Sentiment analysis of aging research literature. (A) Words with the highest and lowest sentiment score in all the corpus. (B) Evolution of sentiment score in the whole dataset. (C) Evolution of the proportion of documents containing the word cancer (word with the lowest sentiment score). (D) Average sentiment score per topic.



Supplementary Figure 3. UMAP visualizations (all documents). (A) Normalized word count per document. (B) UMAP visualization highlighting the presence of the three most distinctive words per cluster, identified using TF-IDF scoring.



Supplementary Figure 4. UMAP visualizations (BoA documents). (A) Normalized word count per document. (B) UMAP visualization highlighting the presence of the three most distinctive words per BoA cluster, identified using TF-IDF scoring.