



**\*\*Fig. XXtaxon\_rectangles.\*\*** An overview of previous studies. (A) A time-series plot to show the main conclusions of previous 13 phylogenomic studies that tested Ctenophora-sister (designated by the orange node) and Porifera-sister (designated by the green node). (B) Matrix taxa and gene sampling for each study. Each of the primary matrices considered here, color coded by taxon sampling. Horizontal size is proportional to the number of genes sampled, vertical size to the number of taxa sampled.