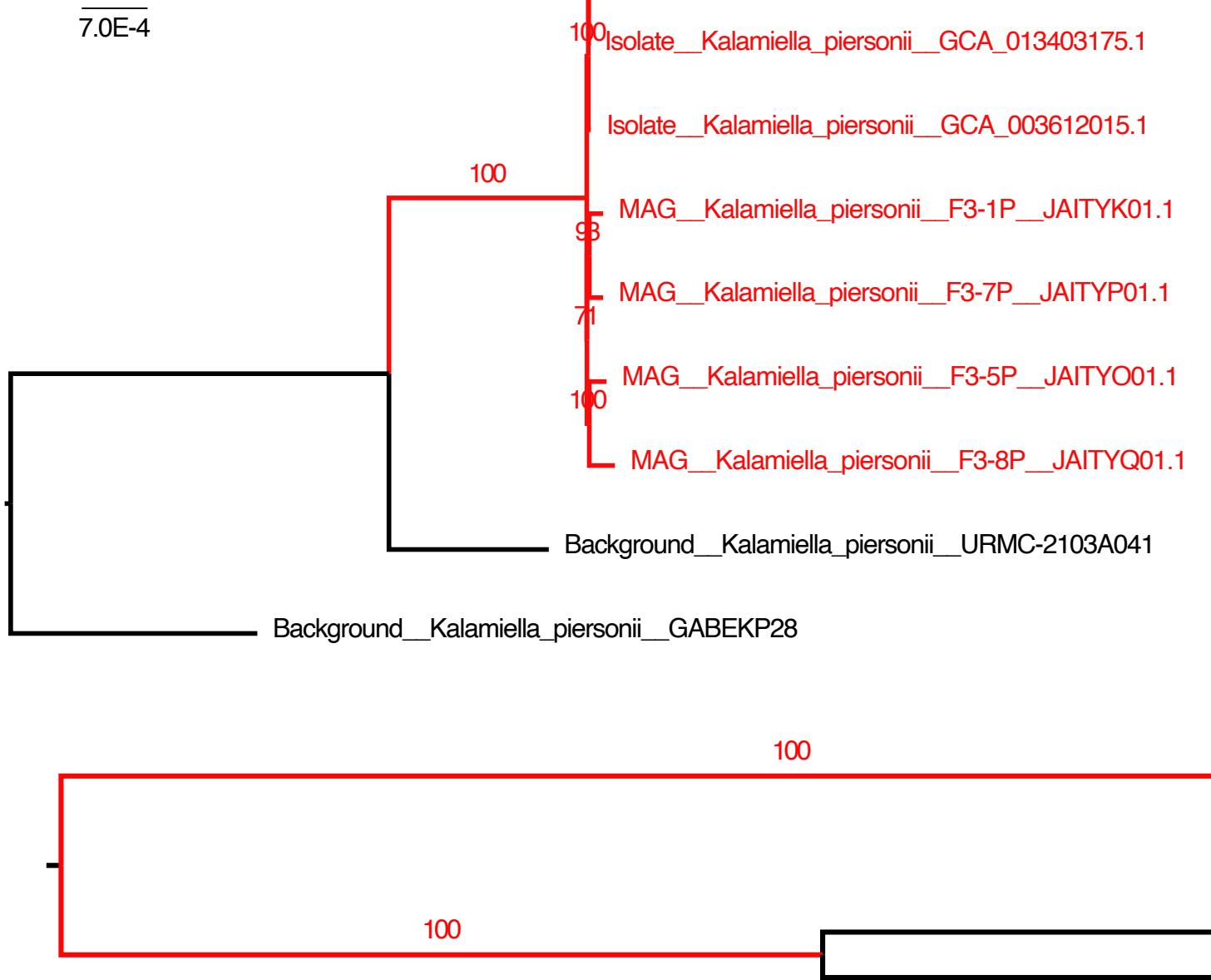
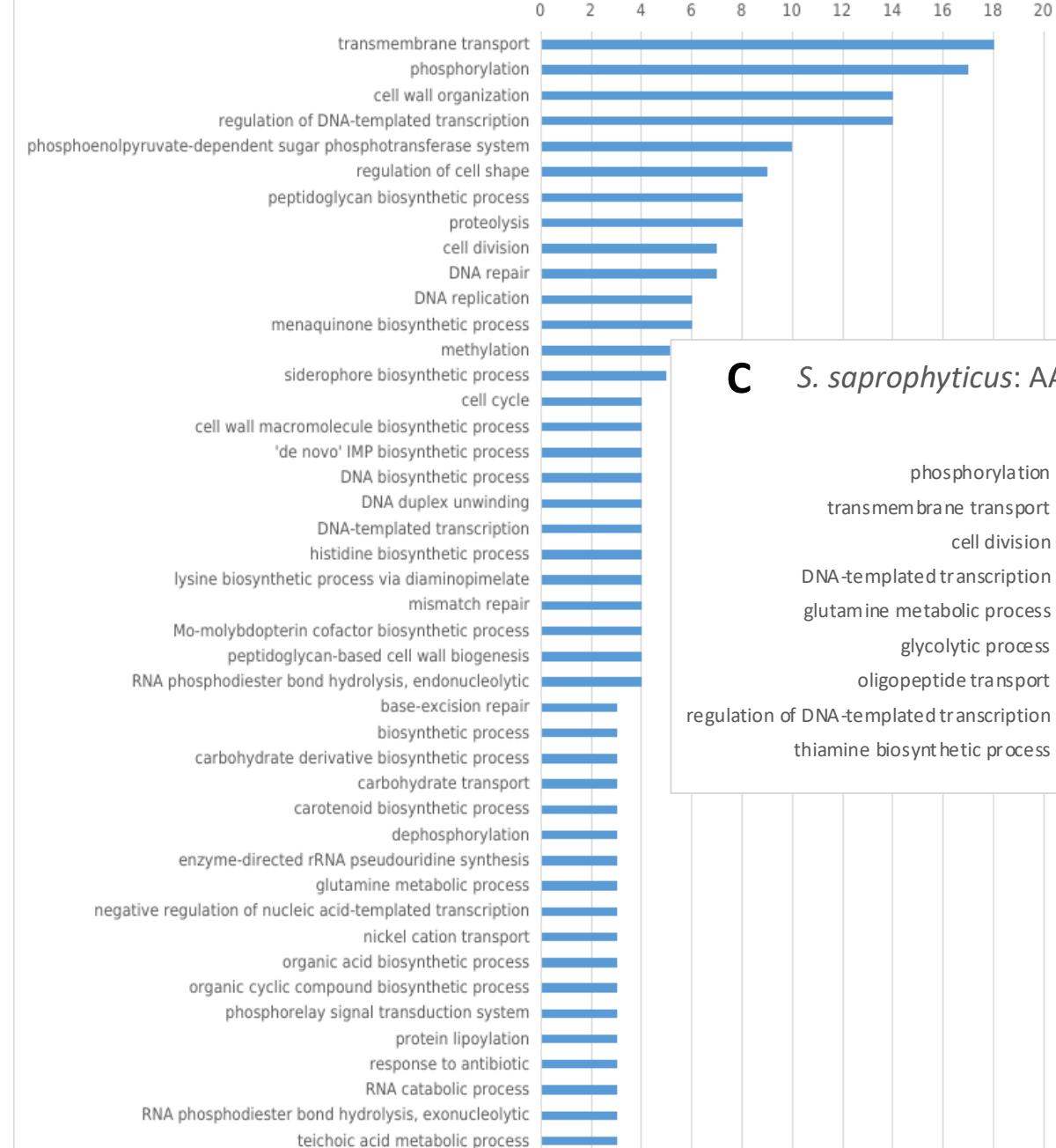
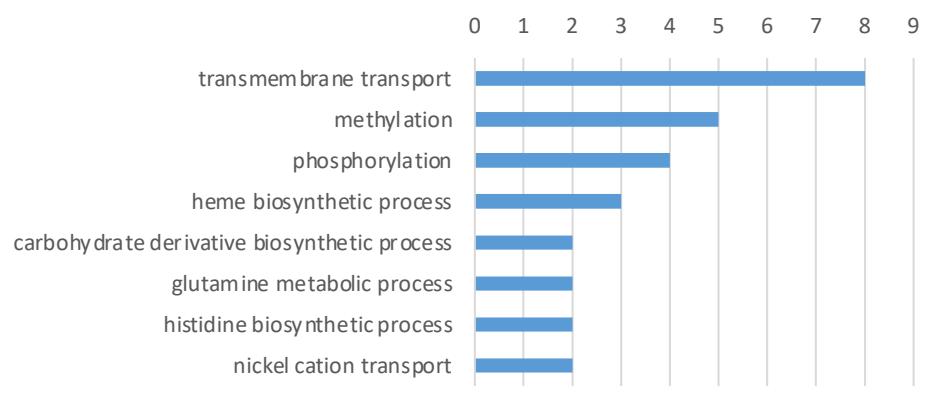
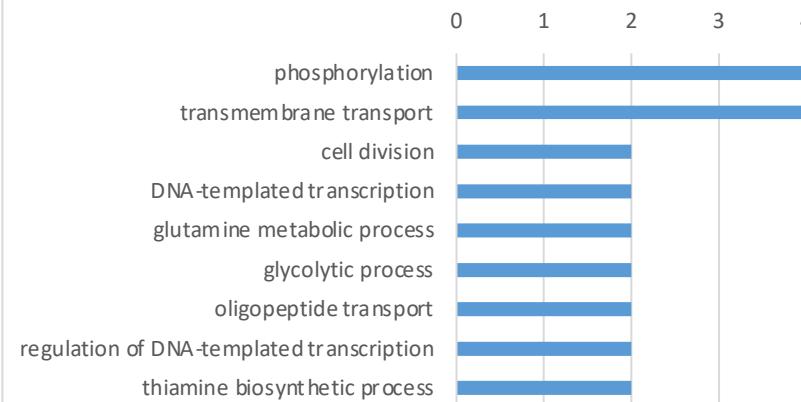
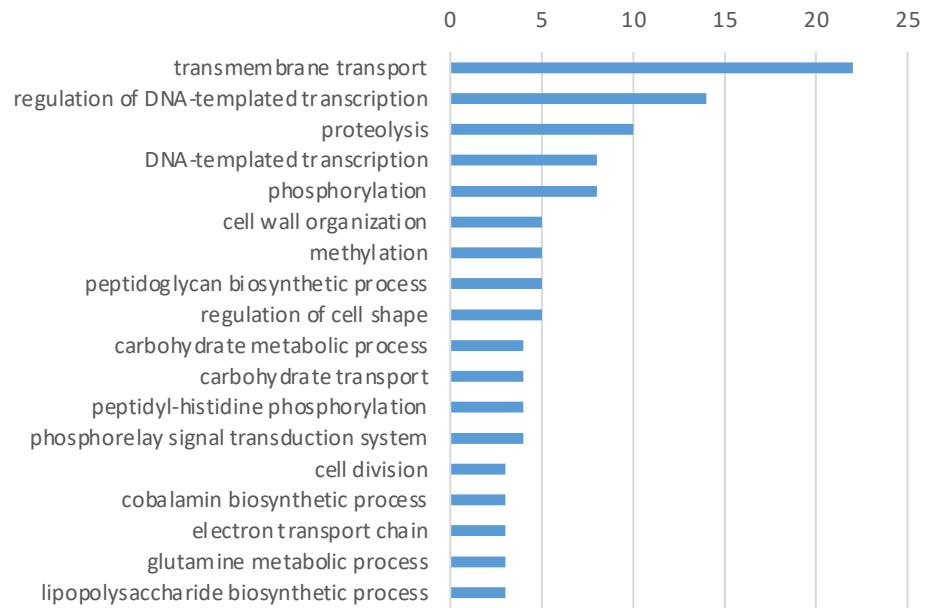


### A: *Kalamiella piersonii*



### B: *Pantoea brenneri*



**A** *S. aureus* (clade 2): AAs with polarity change**B** *S. aureus* (clade 1): AAs with polarity change**C** *S. saprophyticus*: AAs with polarity change**D** *Klebsiella*: AAs with polarity change

*S. aureus*: convergence of indels across clades 1  
and 2

