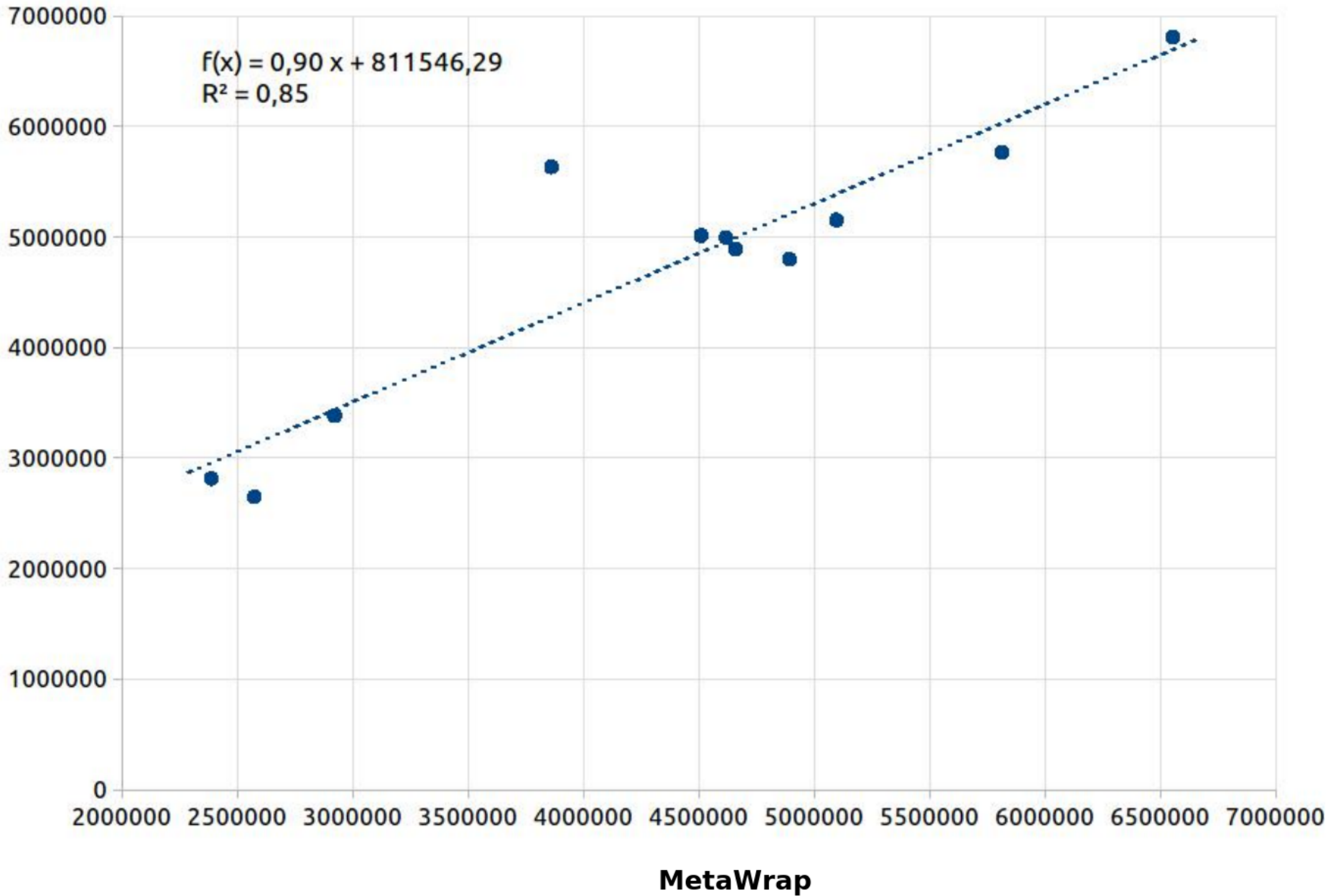
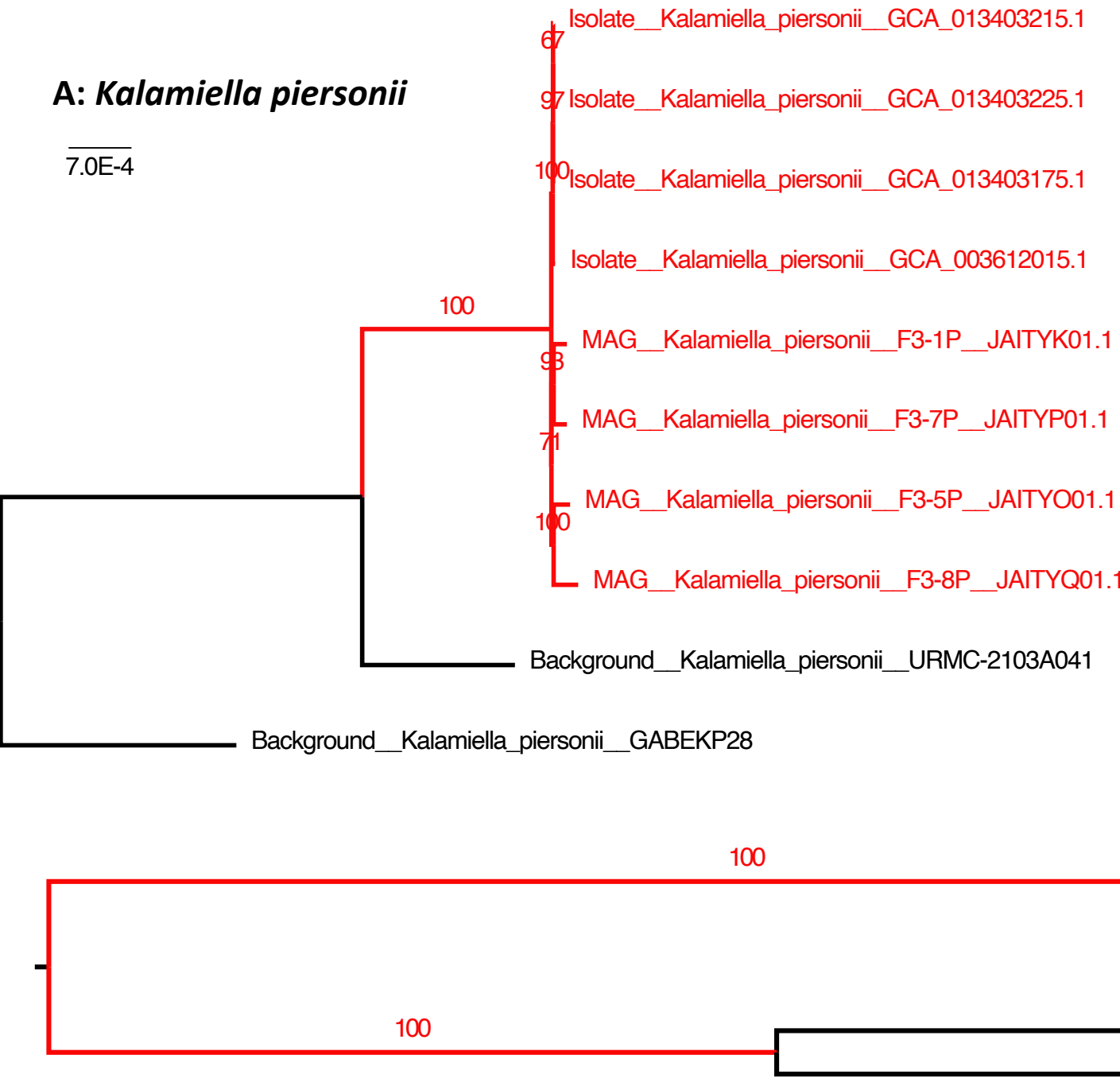


MetaSPAdes



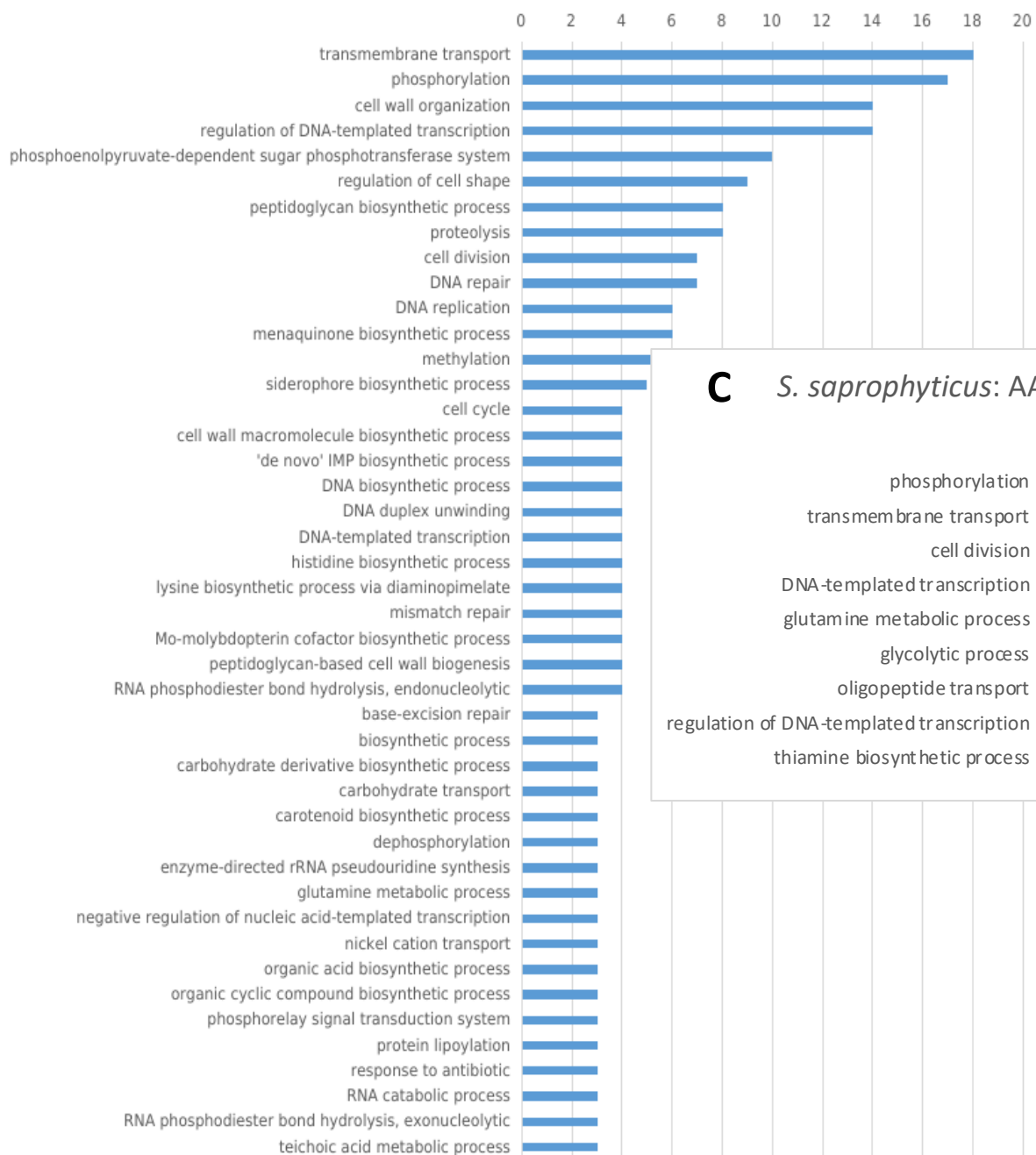
A: *Kalamiella piersonii*



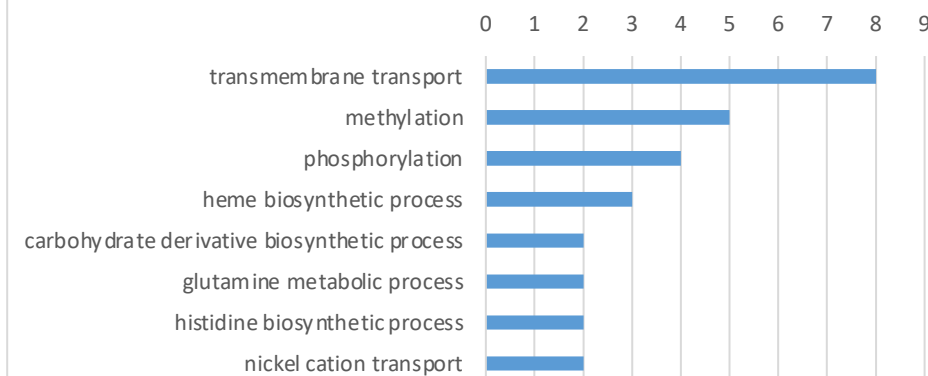
B: *Pantoea brenneri*



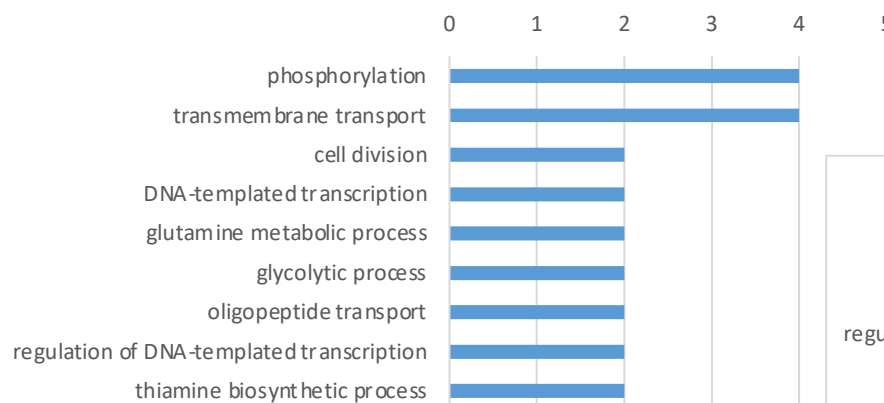
A *S. aureus* (clade 2): AAs with polarity change



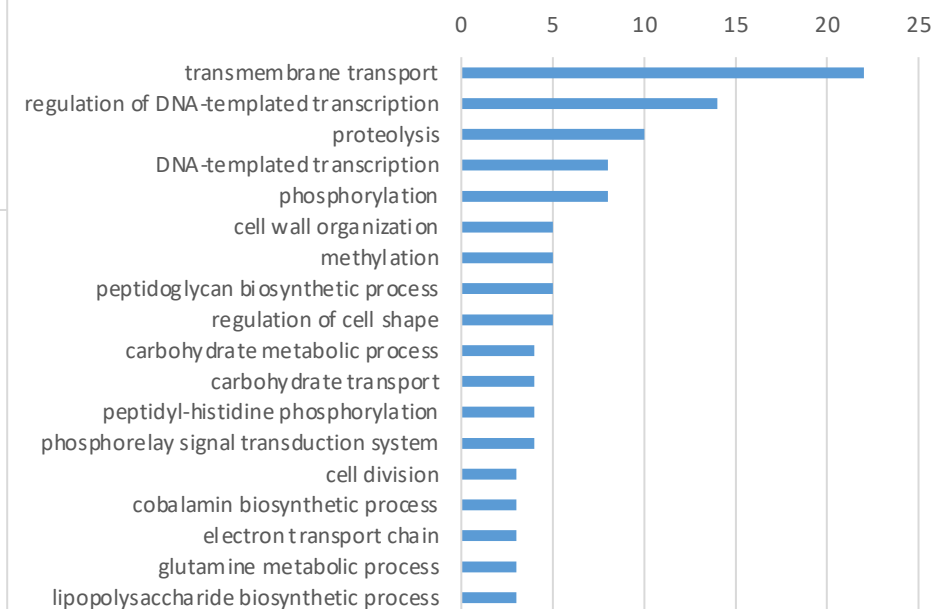
B *S. aureus* (clade 1): AAs with polarity change



C *S. saprophyticus*: AAs with polarity change



D *Klebsiella*: AAs with polarity change



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

