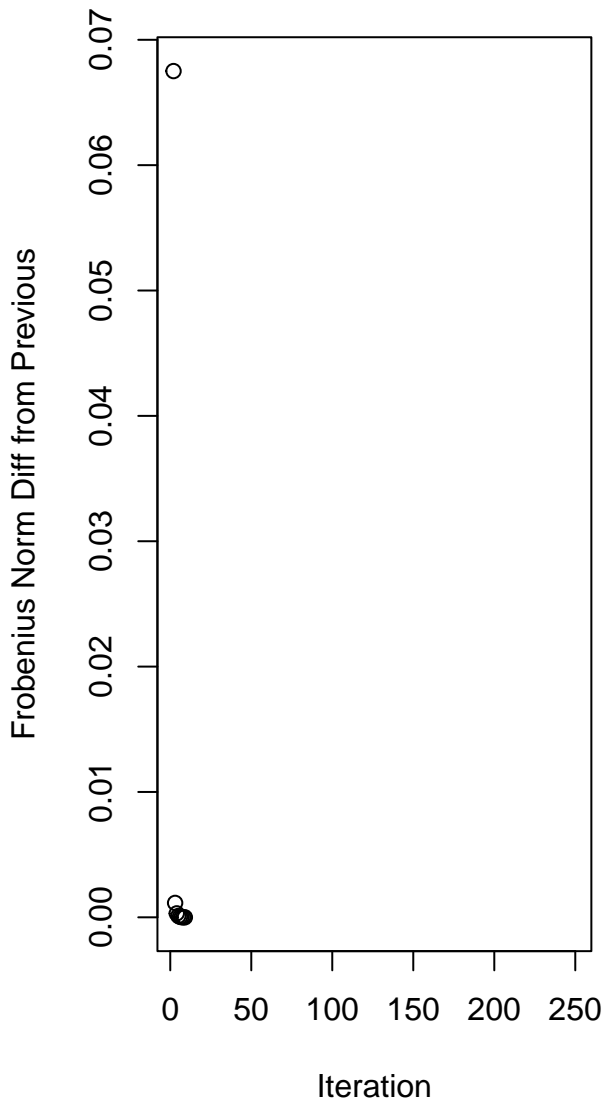
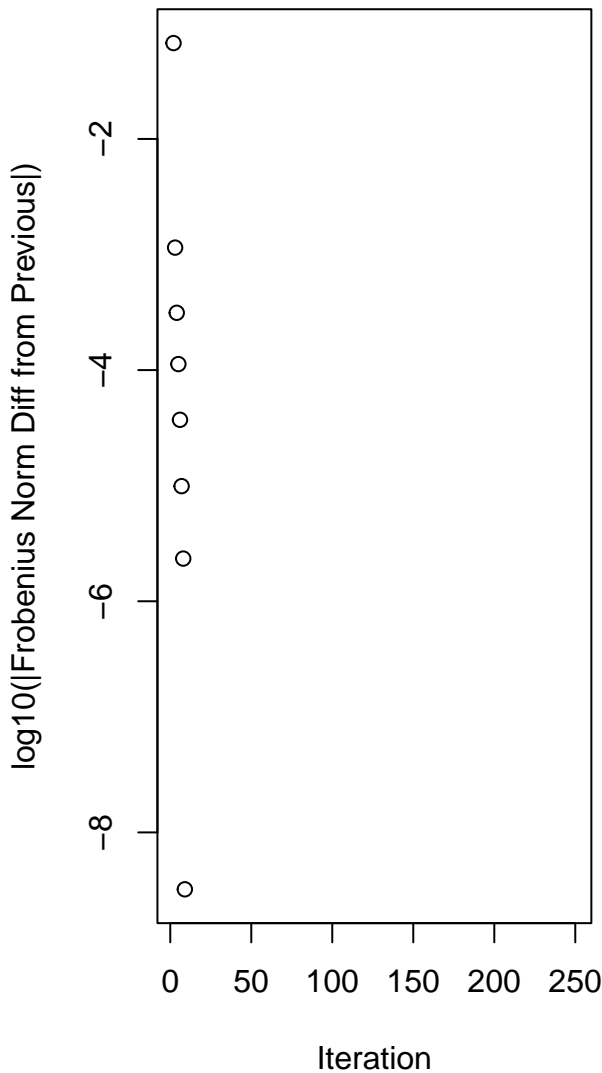


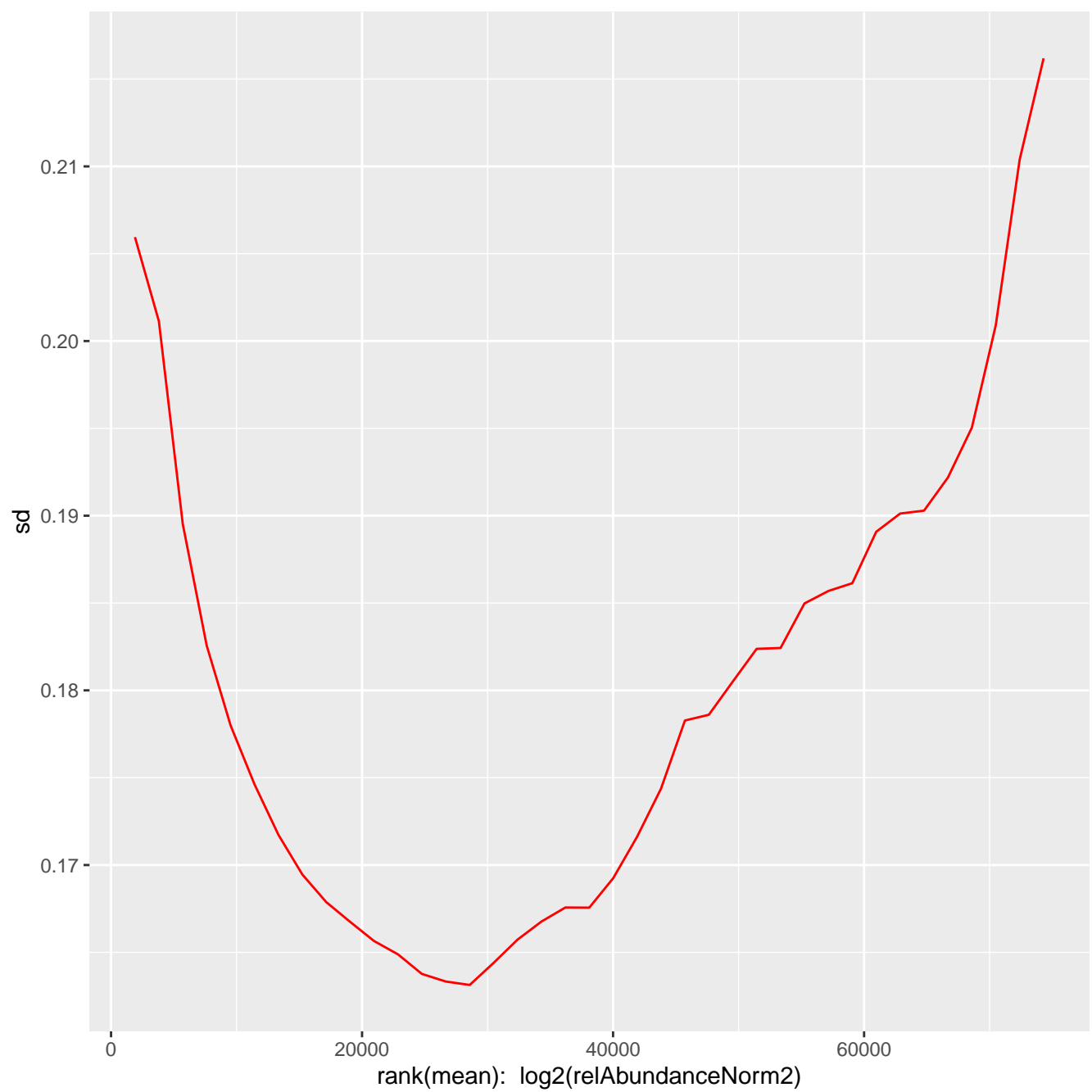
# Convergence Tracking, Iterations 2–9

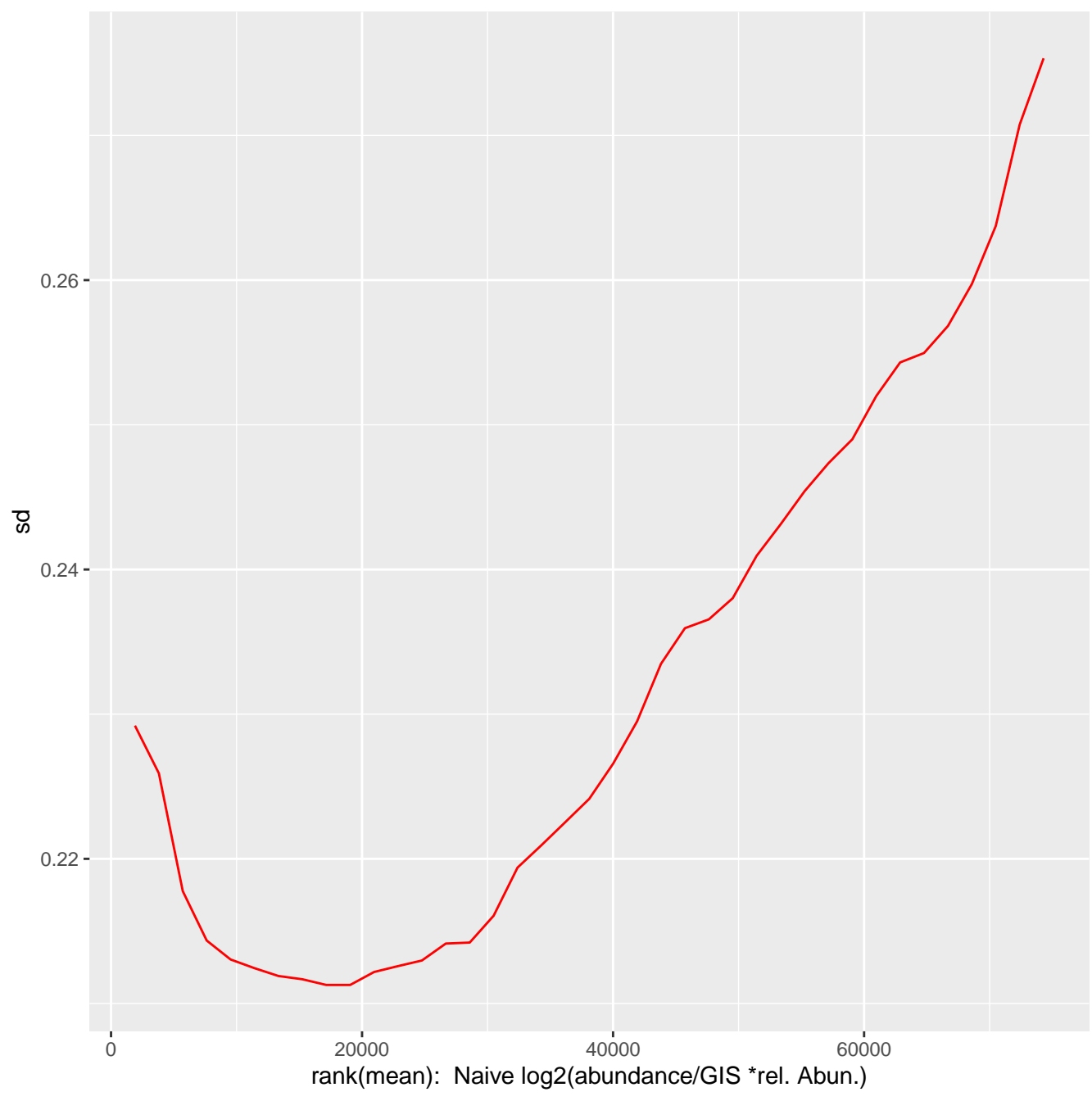
## Linear Scale

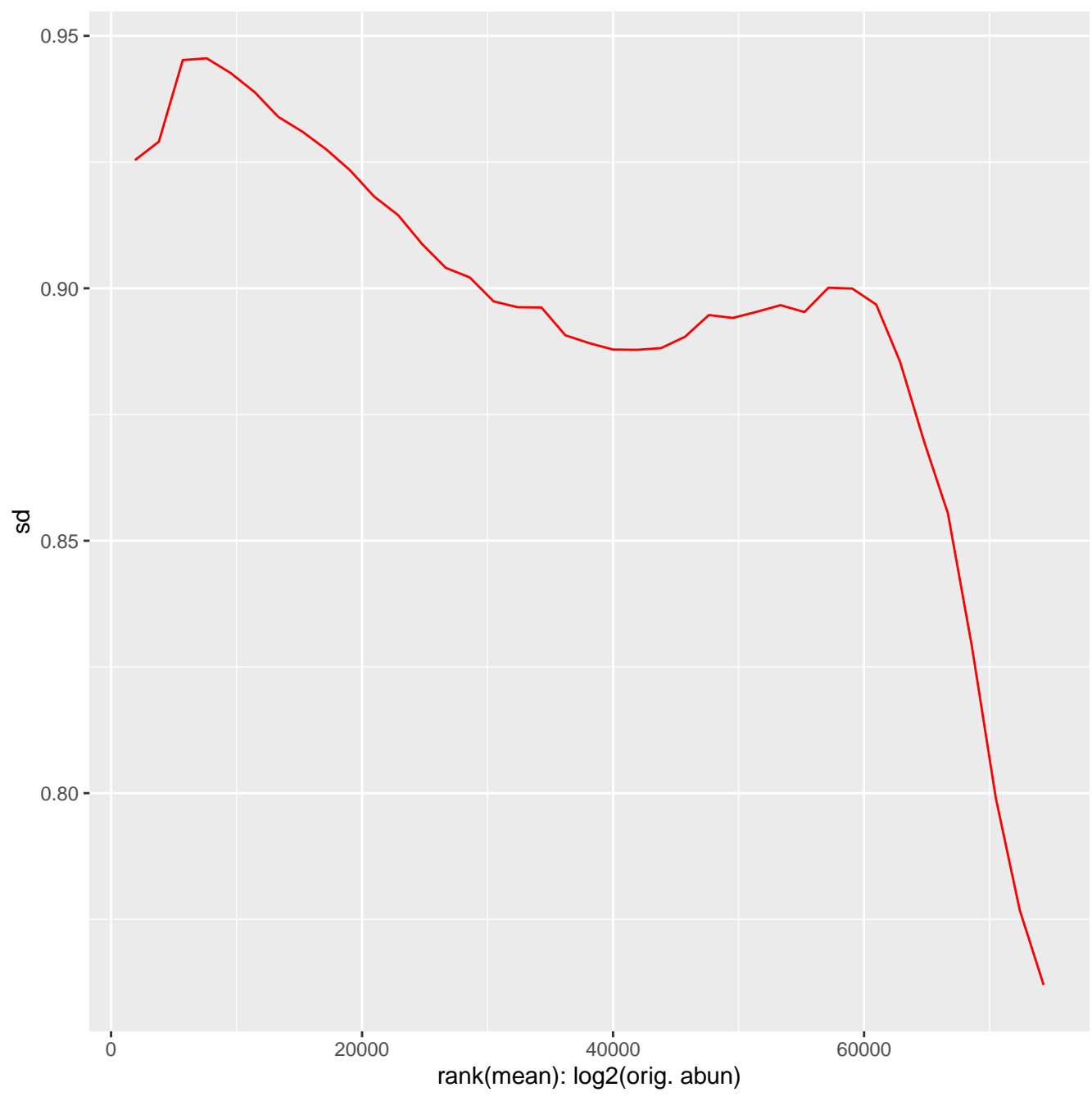


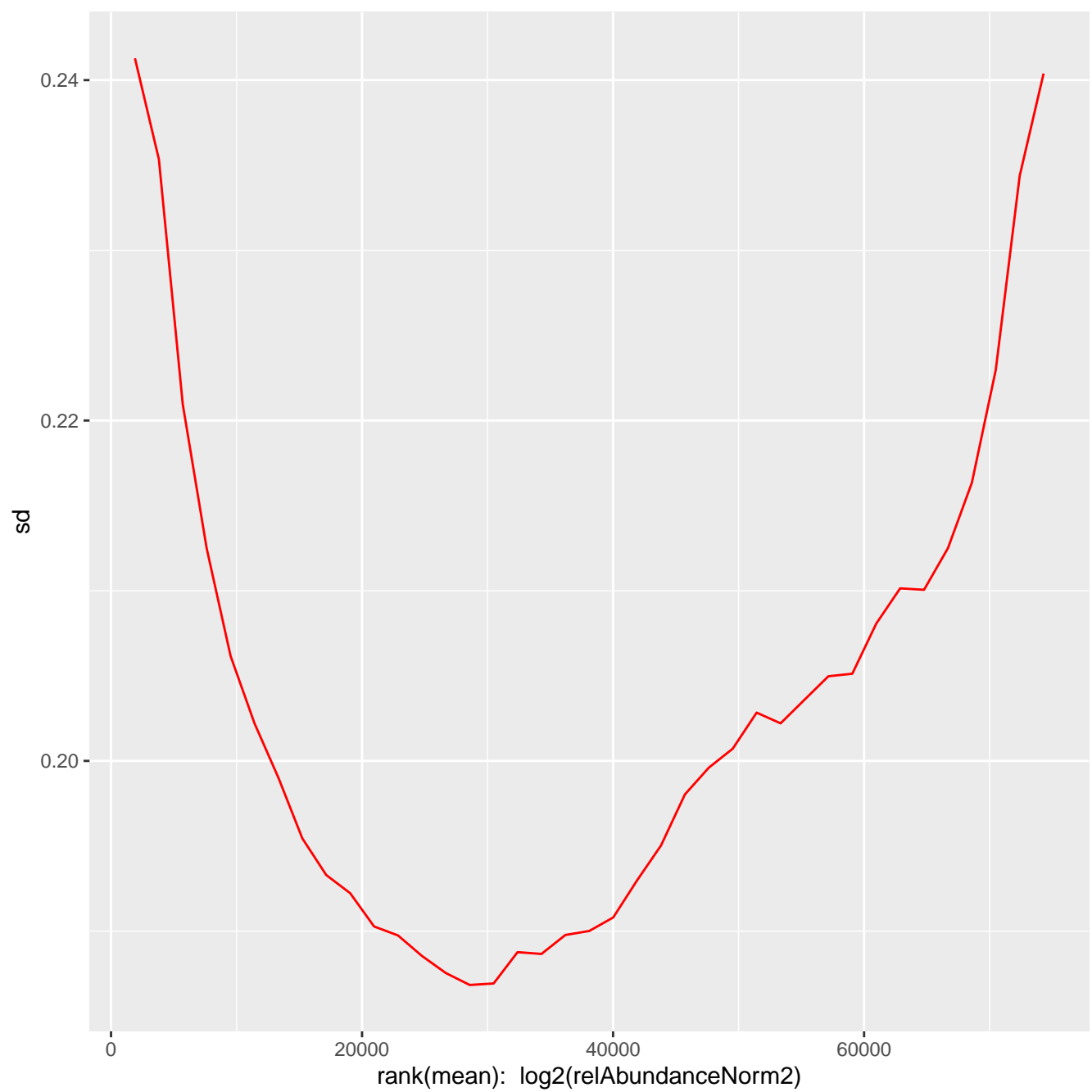
## Log10 Scale

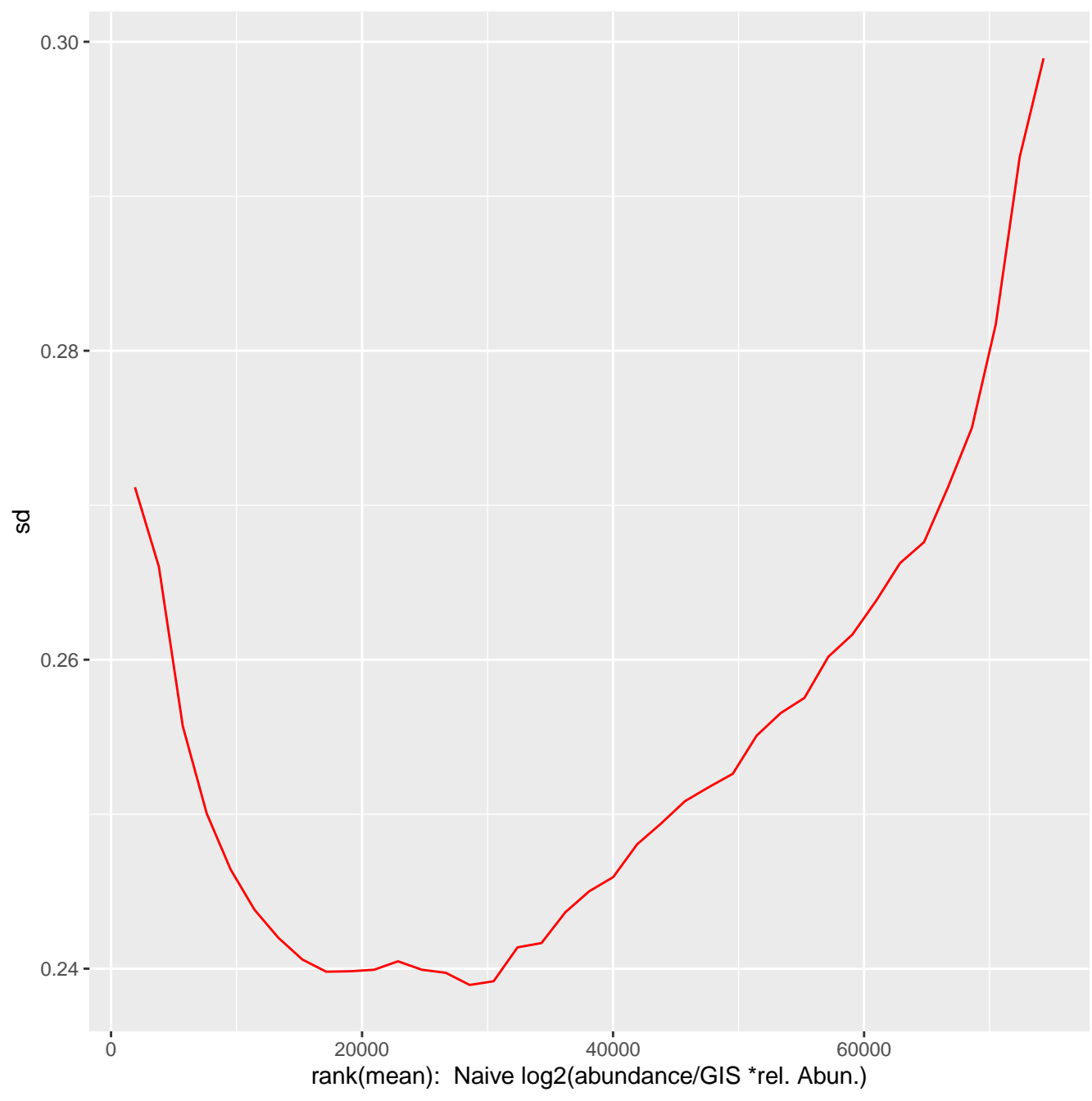


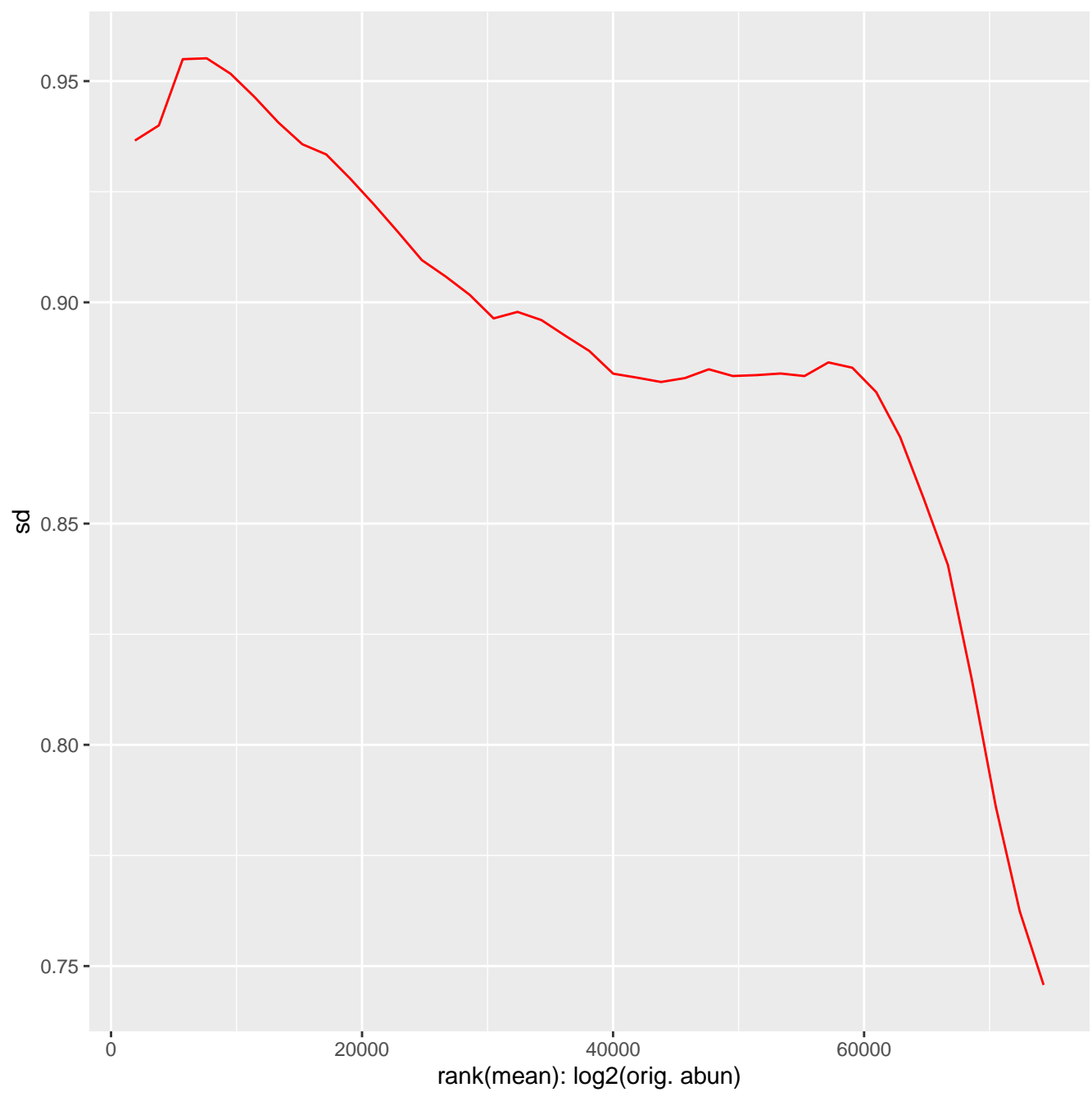




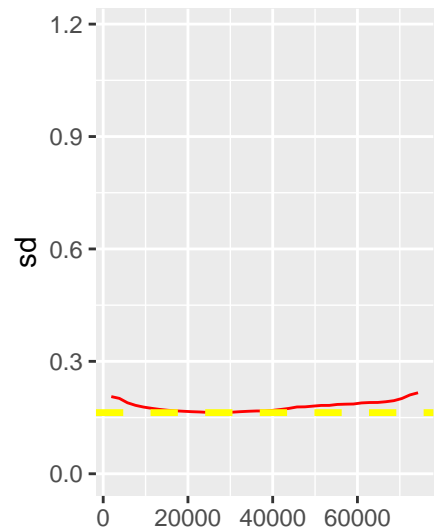
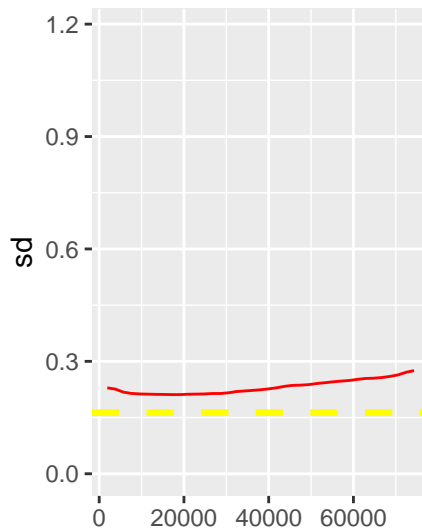
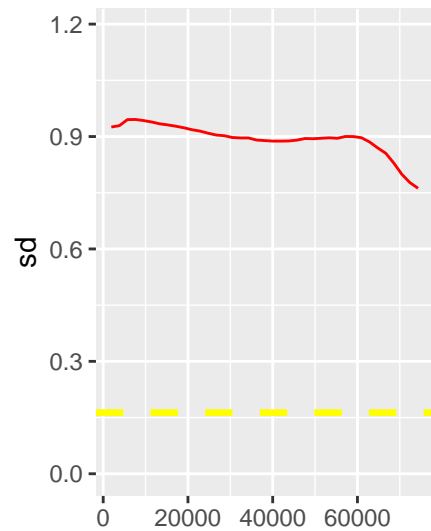








Variance (mean-SD) P  
Matrices of Dimensions:

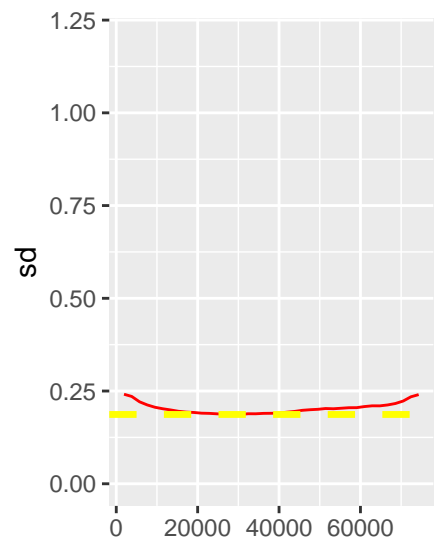
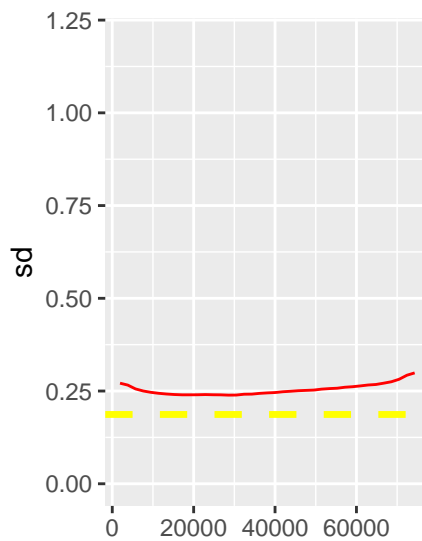
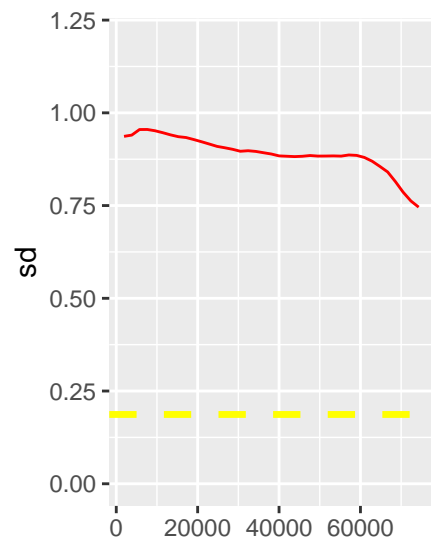


rank(mean): log2(orig. abundance)

rank(mean): Naive log2(abundance/GIS rank)

rank(mean): log2(relAbundance)

Variance (mean-SD) I  
Matrices\* of Dimensio



rank(mean): log2(orig. abundance)

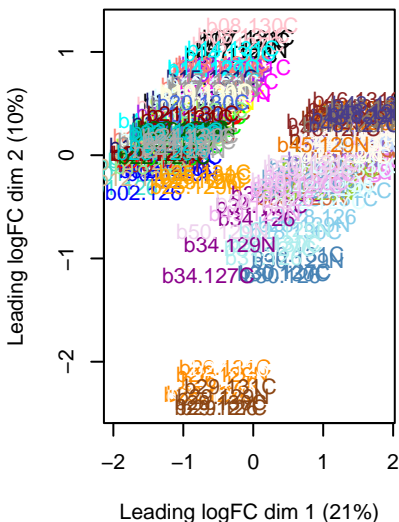
rank(mean): Naive log2(abundance/GIS rank)

rank(mean): log2(relAbundance)

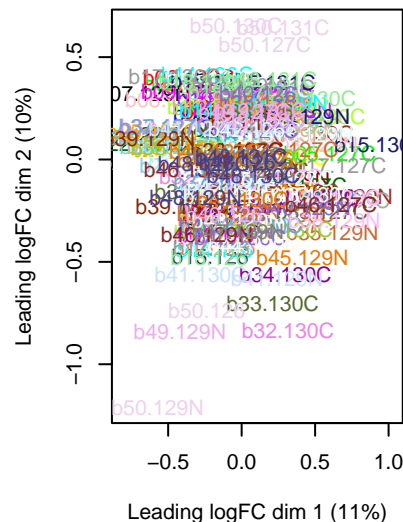
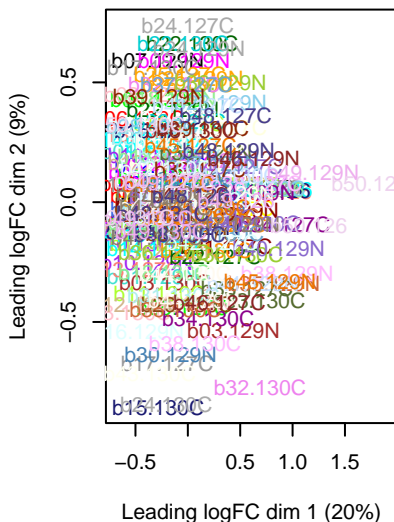
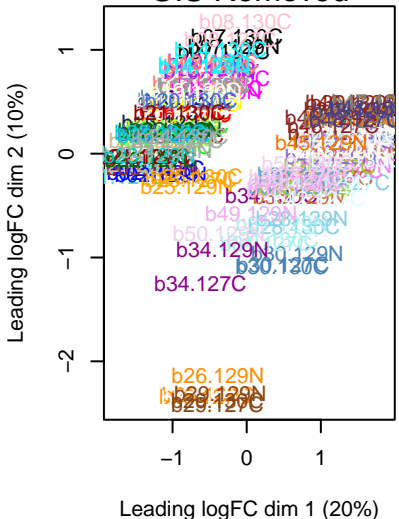
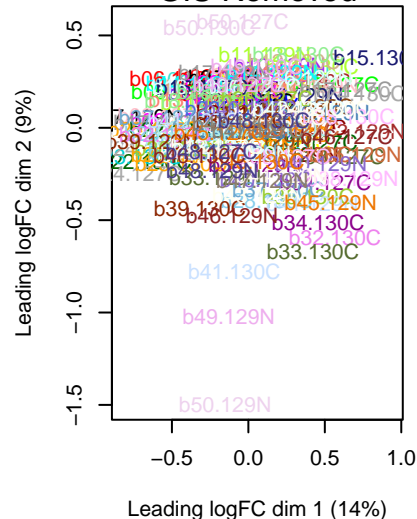
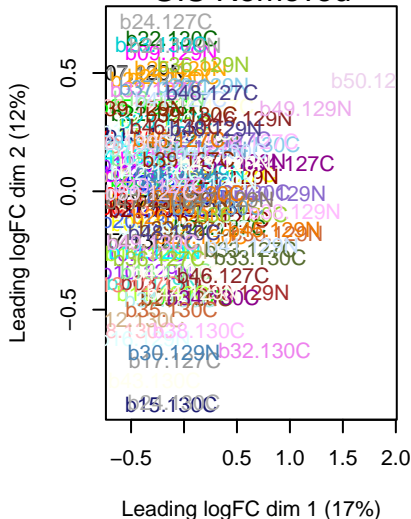
\*No GIS control sample



ORIGINAL log2(abundance)

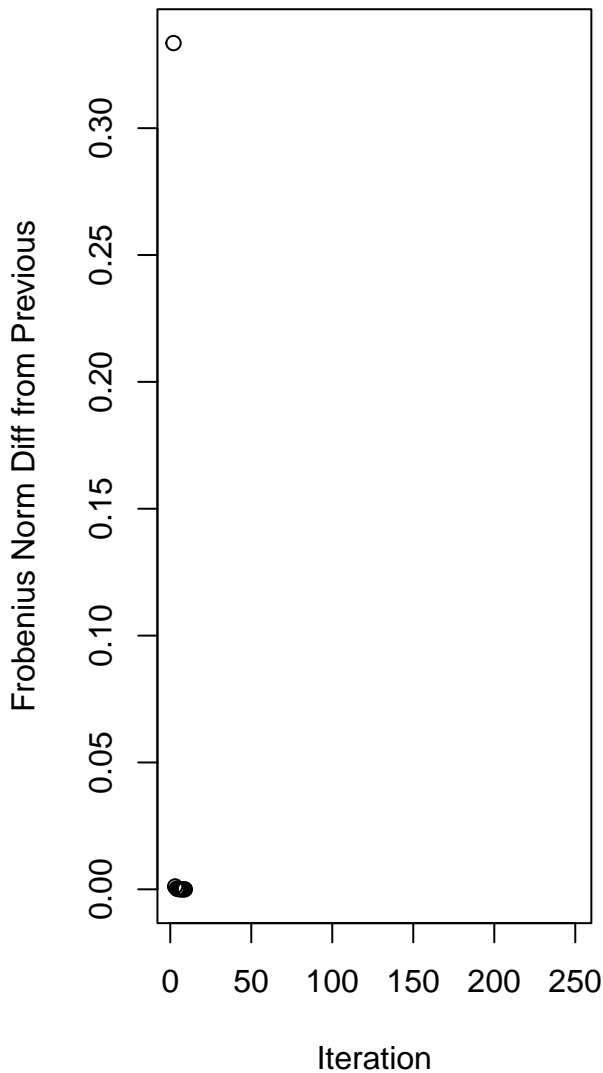


Naive log2(abundance/GIS \*Rel AbiTAMPOR log2(abundance) [9iterations]

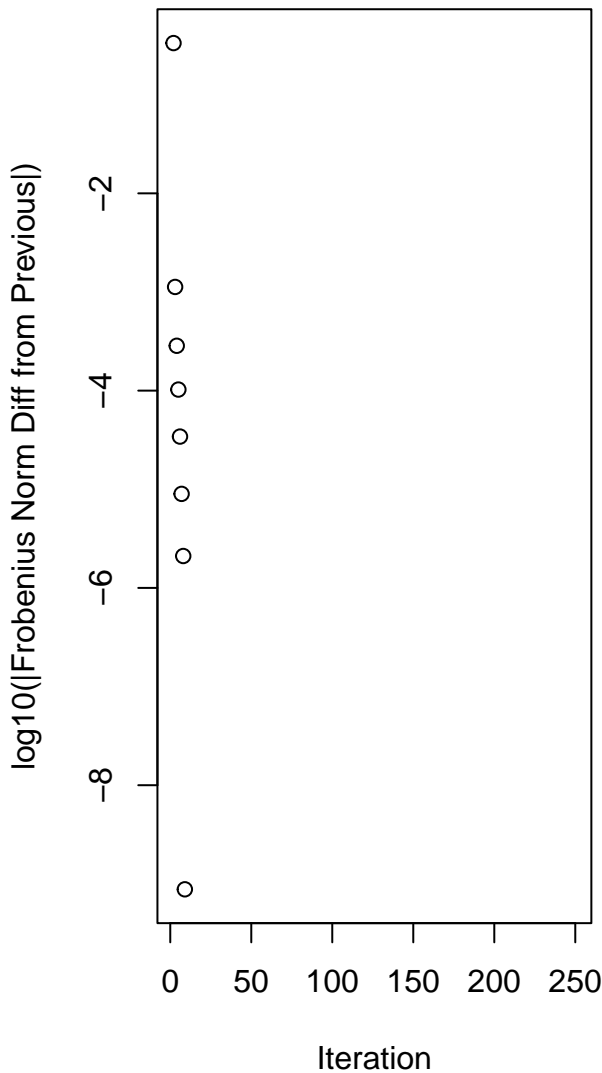
ORIGINAL log2(abundance)  
GIS RemovedNaive log2(abundance/GIS \*Rel AbiTAMPOR log2(abundance) [9iterations]  
GIS Removed

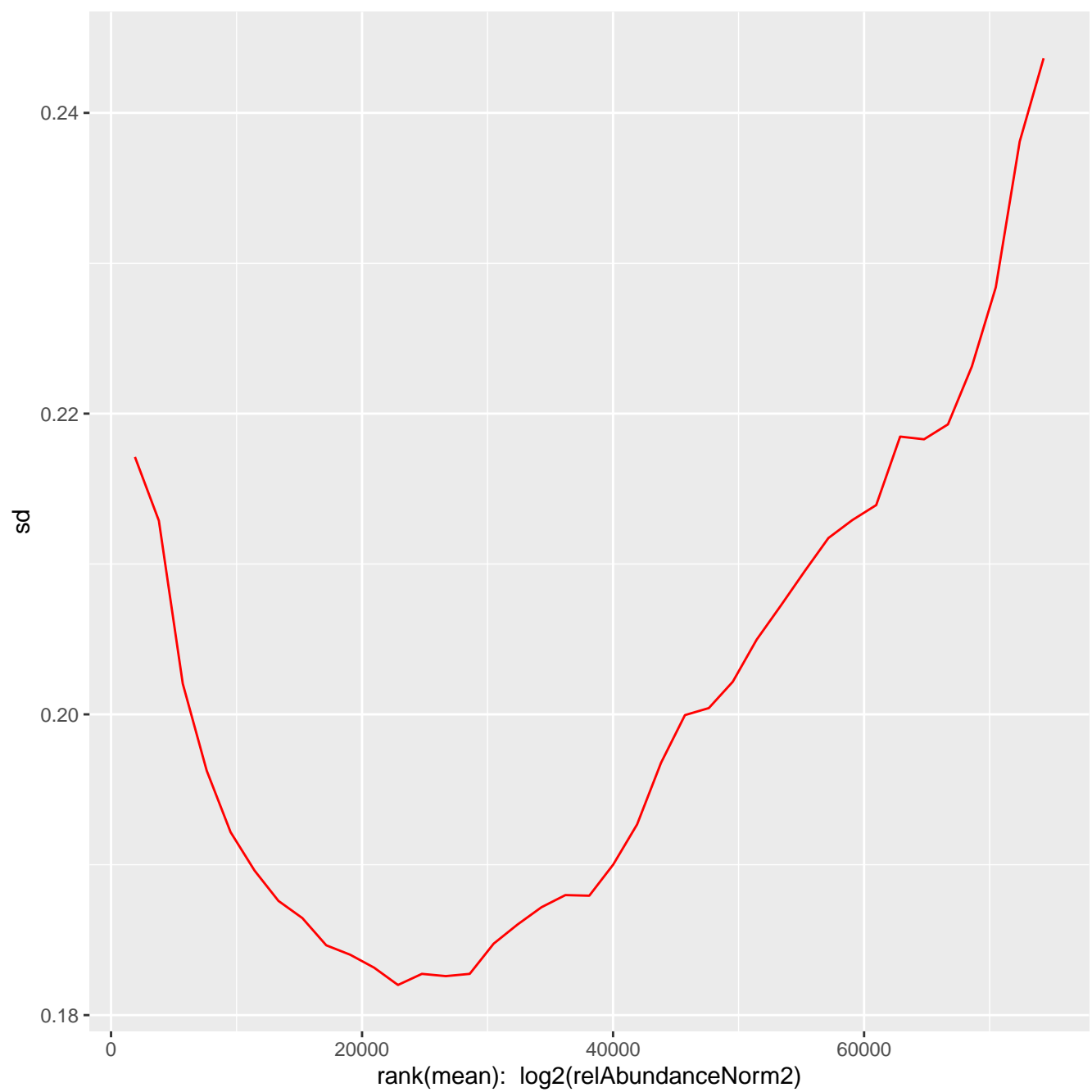
# Convergence Tracking, Iterations 2–9

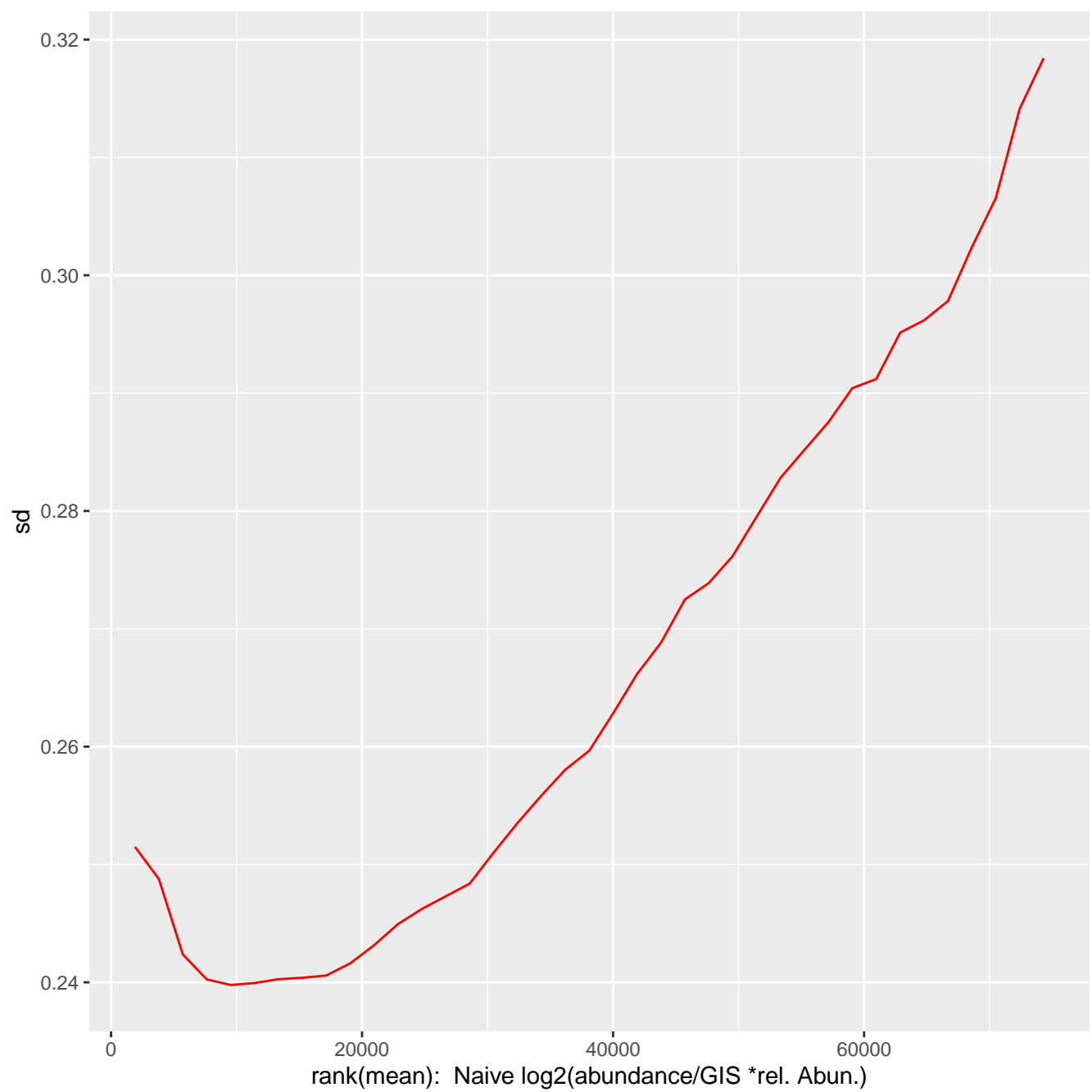
## Linear Scale

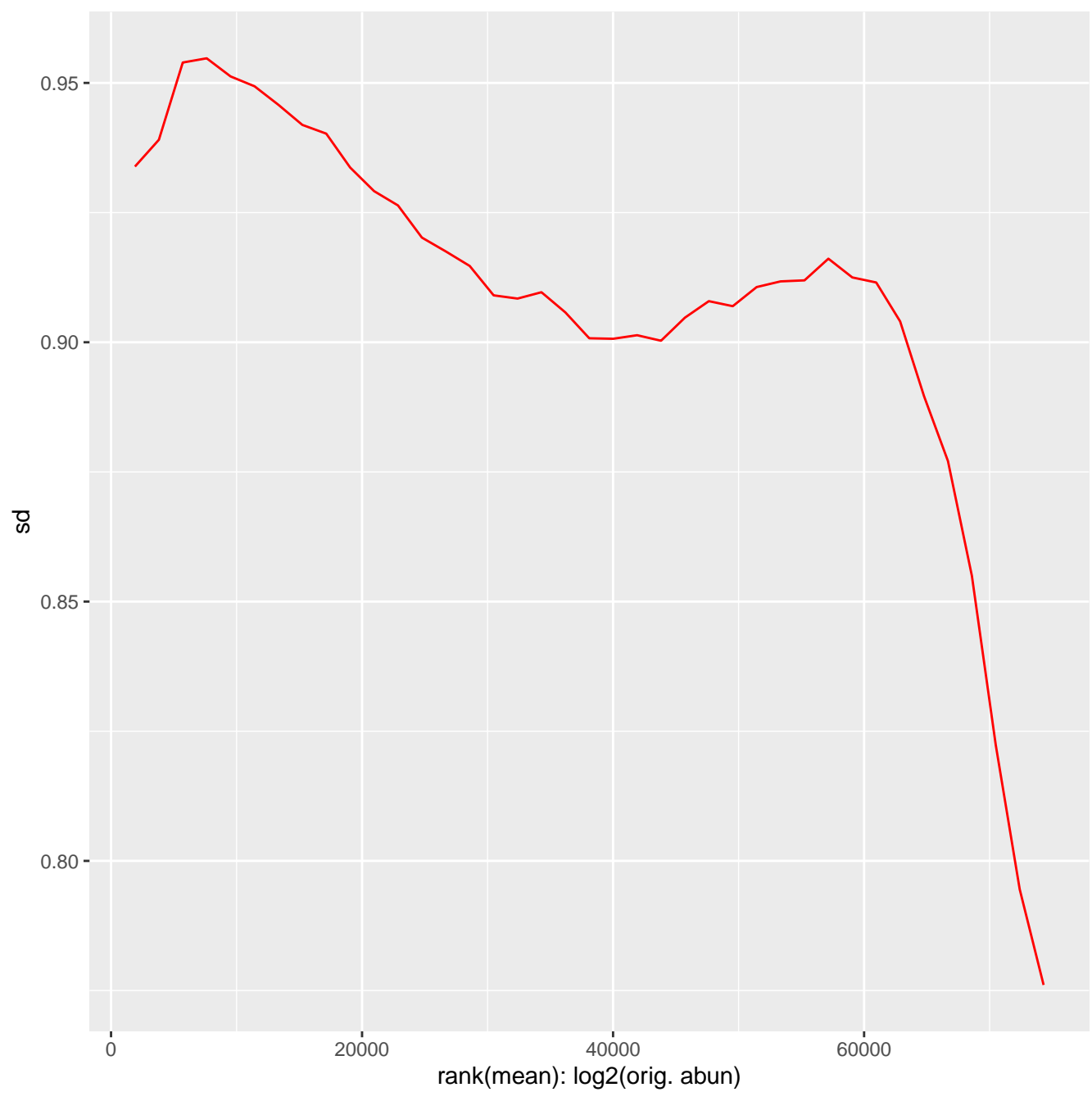


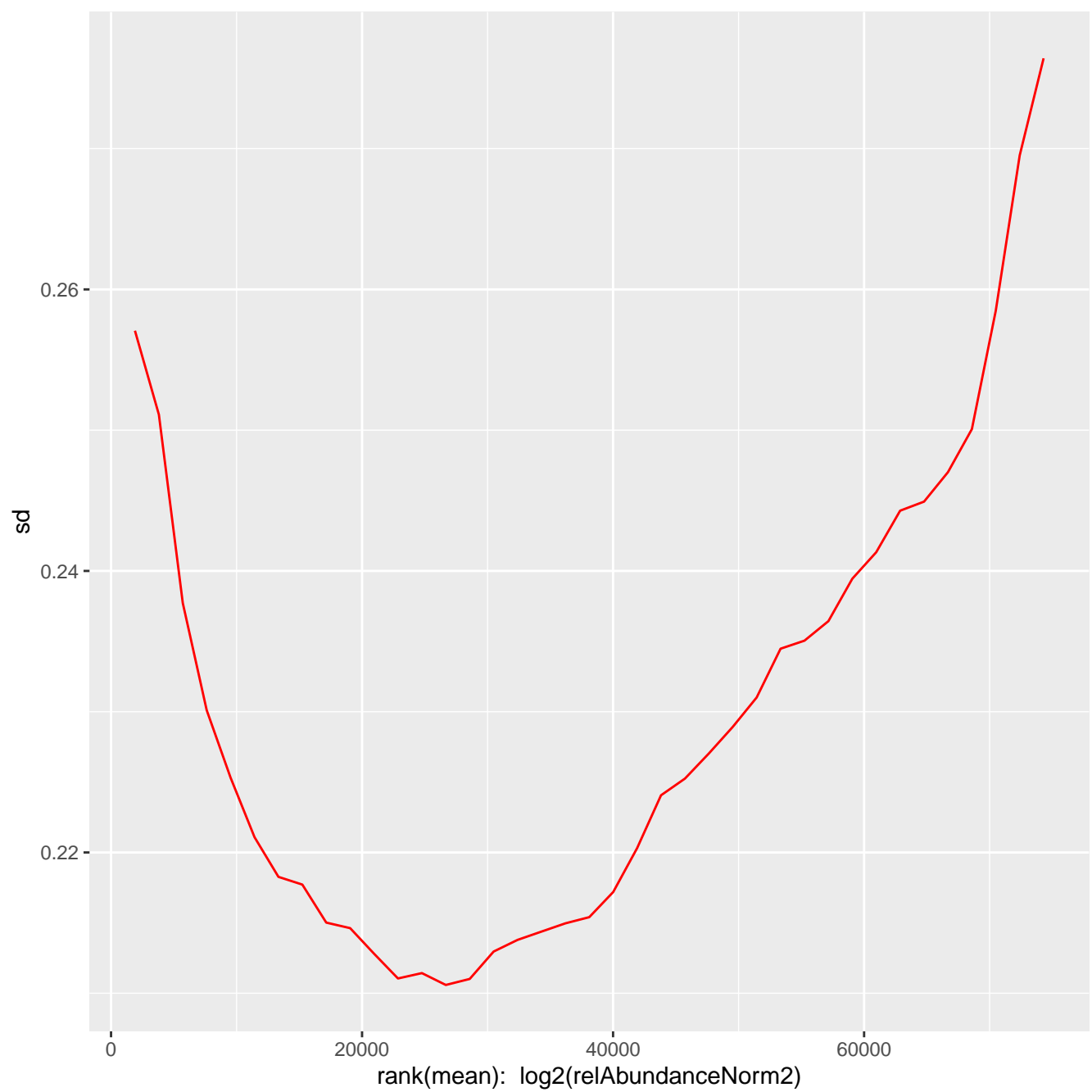
## Log10 Scale

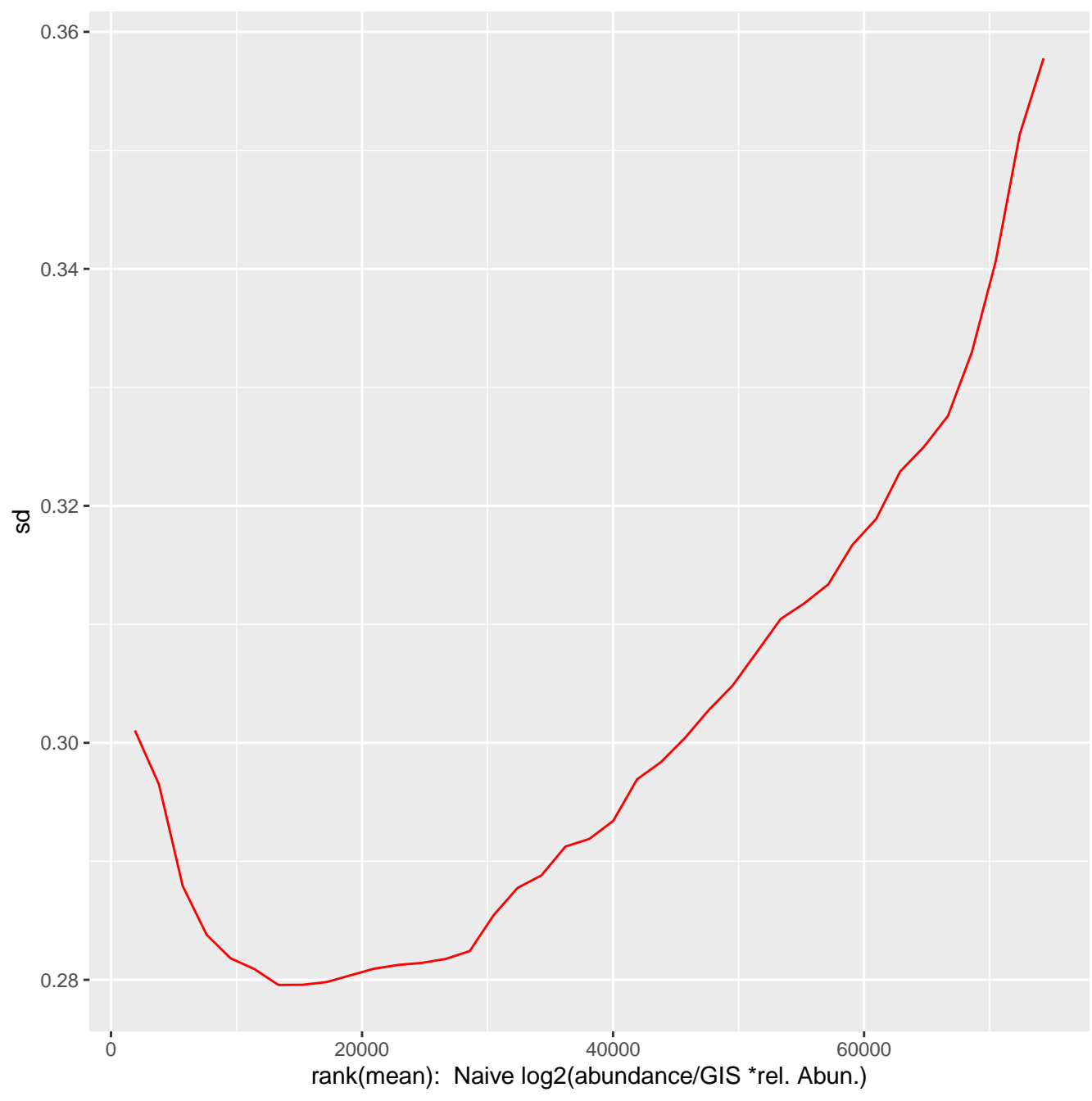


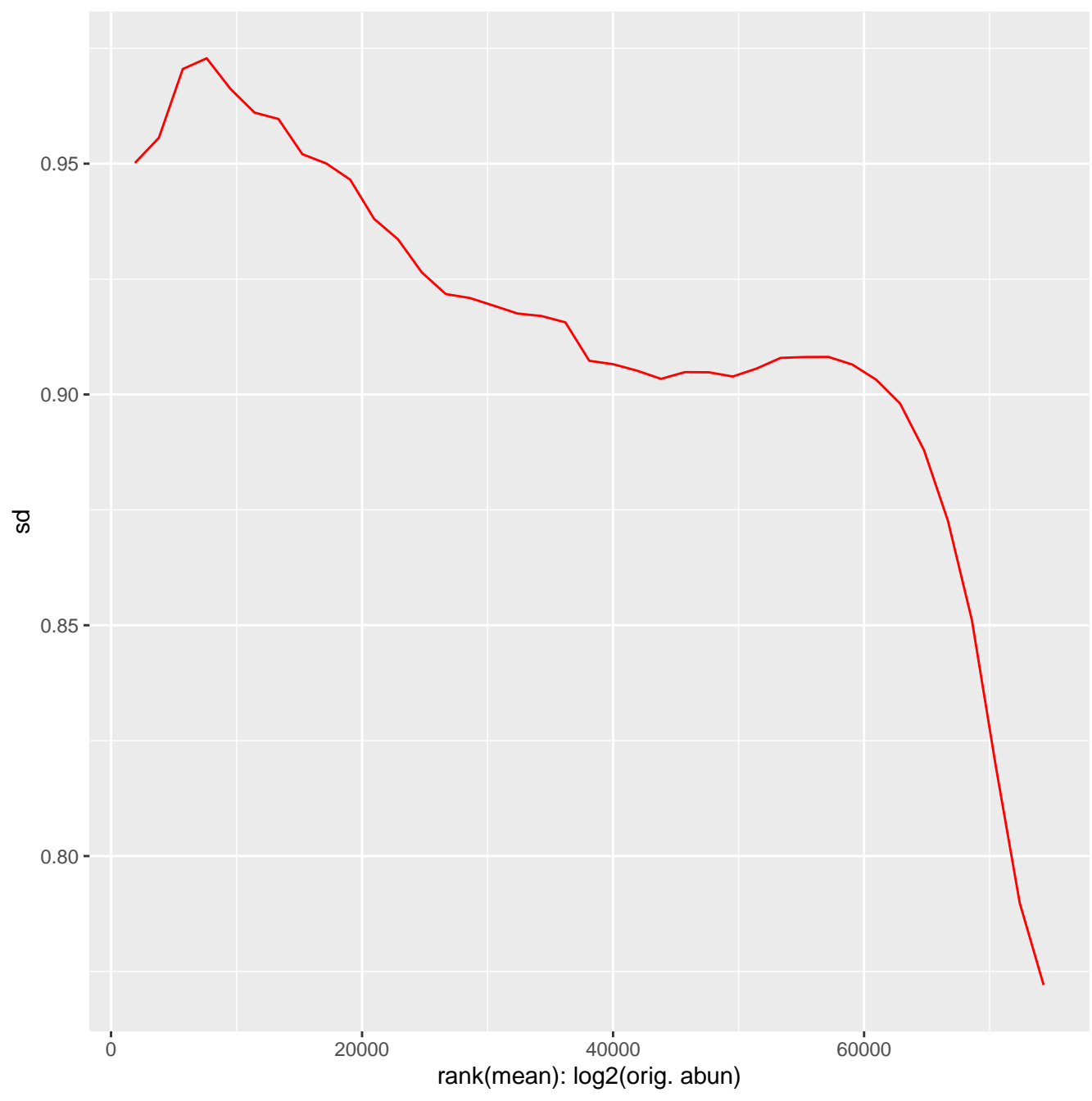






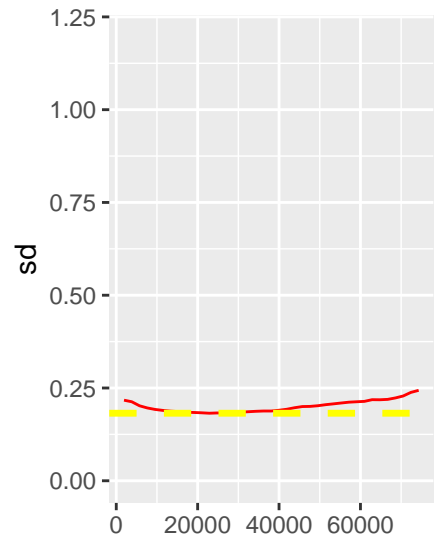
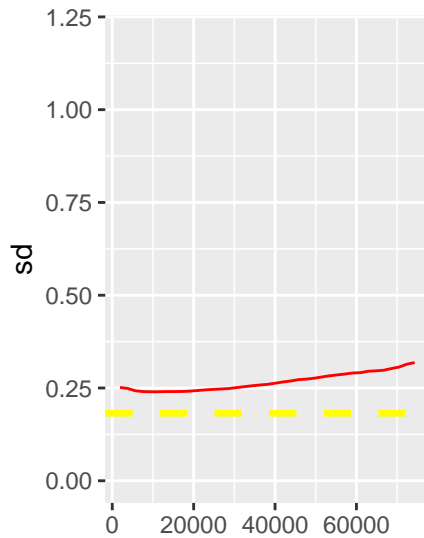
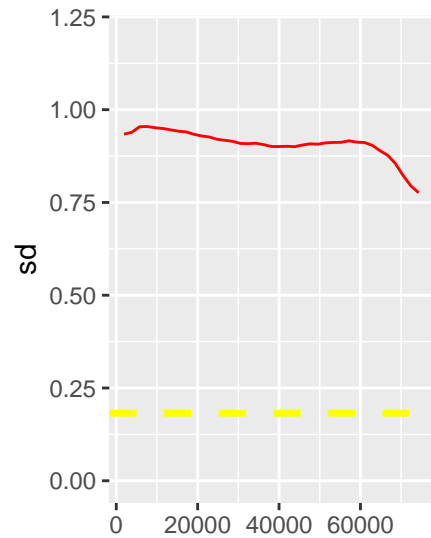








Variance (mean-SD) I  
Matrices of Dimension

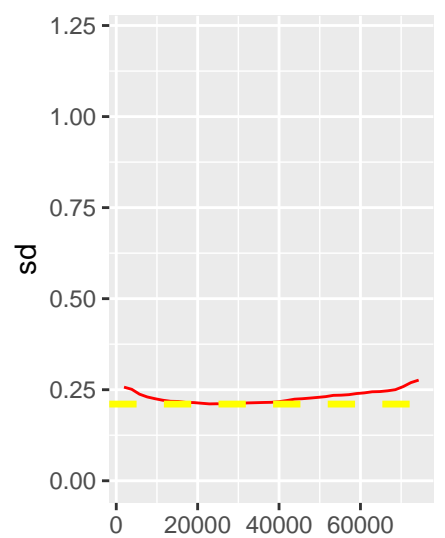
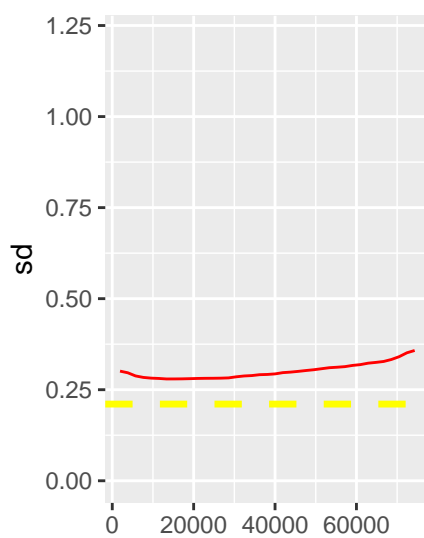
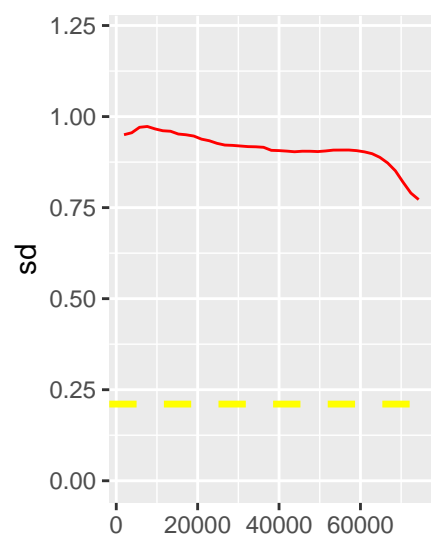


rank(mean): log2(orig. abundance)

rank(mean): Naive log2(abundance/GIS)

rank(mean): log2(relAbundance)

Variance (mean-SD) I  
Matrices\* of Dimension



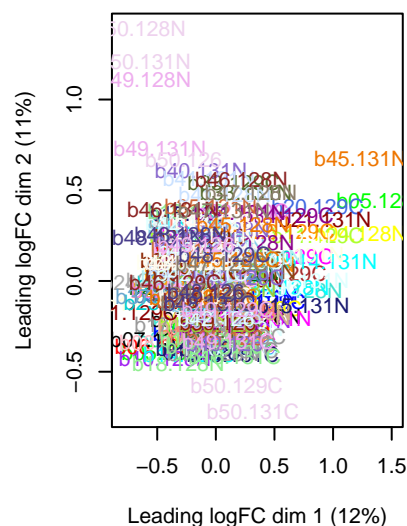
rank(mean): log2(orig. abundance)

rank(mean): Naive log2(abundance/GIS)

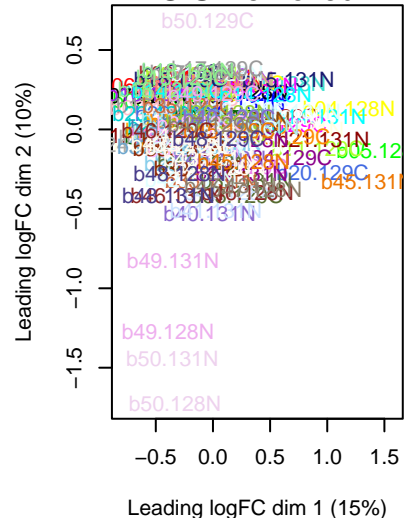
rank(mean): log2(relAbundance)

\*No GIS control sample

Naive  $\log_2(\text{abundance}/\text{GIS}) \cdot \text{Rel Ab}$  | TAMPOR  $\log_2(\text{abundance})$  [9iterations]

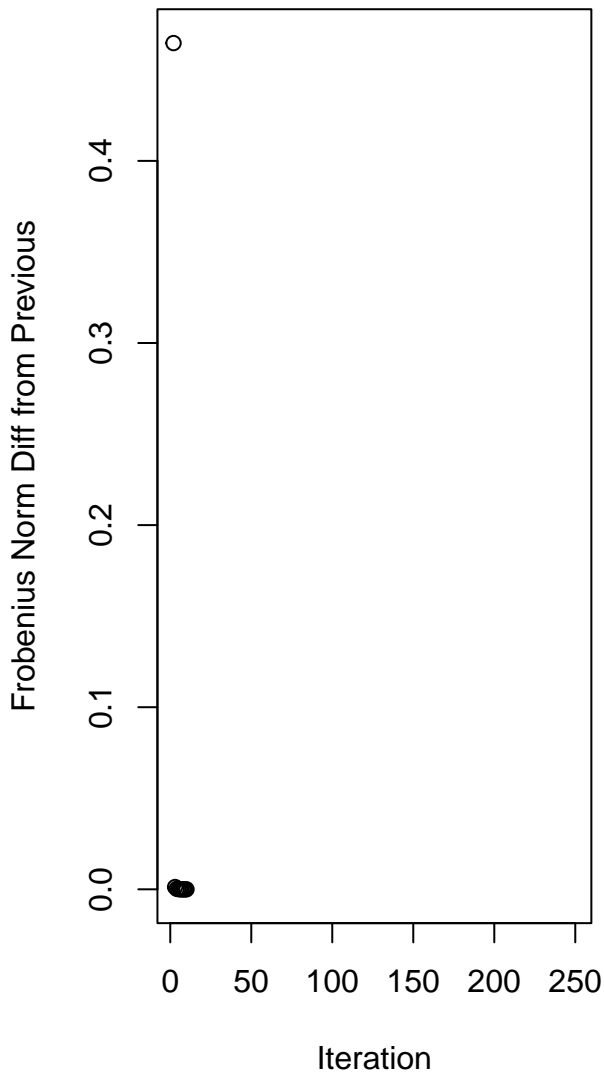


Naive log2(abundance/GIS \*Rel AbiTAMPOR log2(abundance) [9iterations]  
GIS Removed GIS Removed

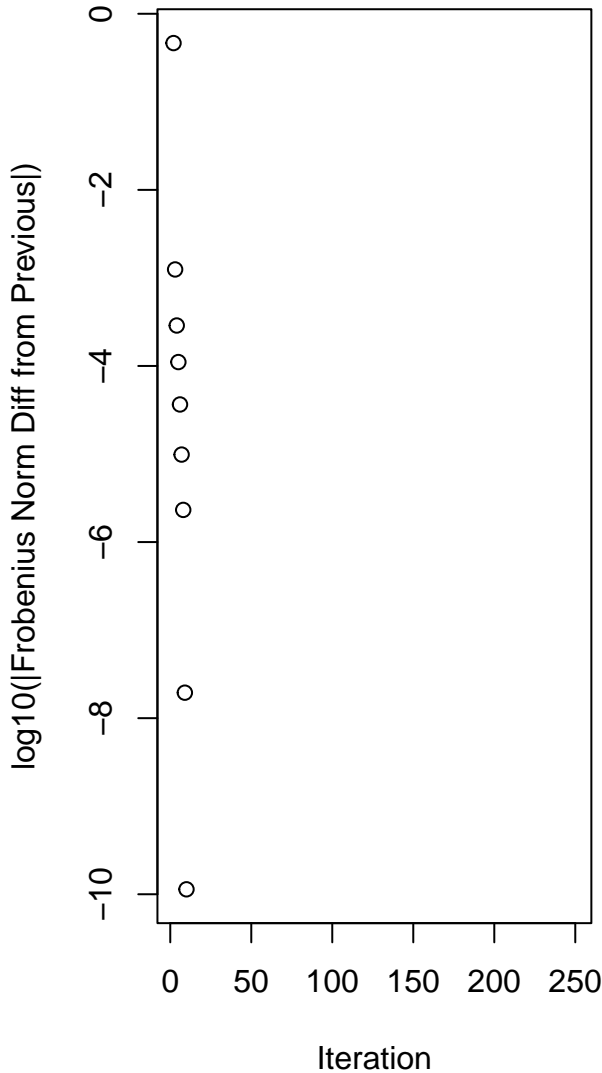


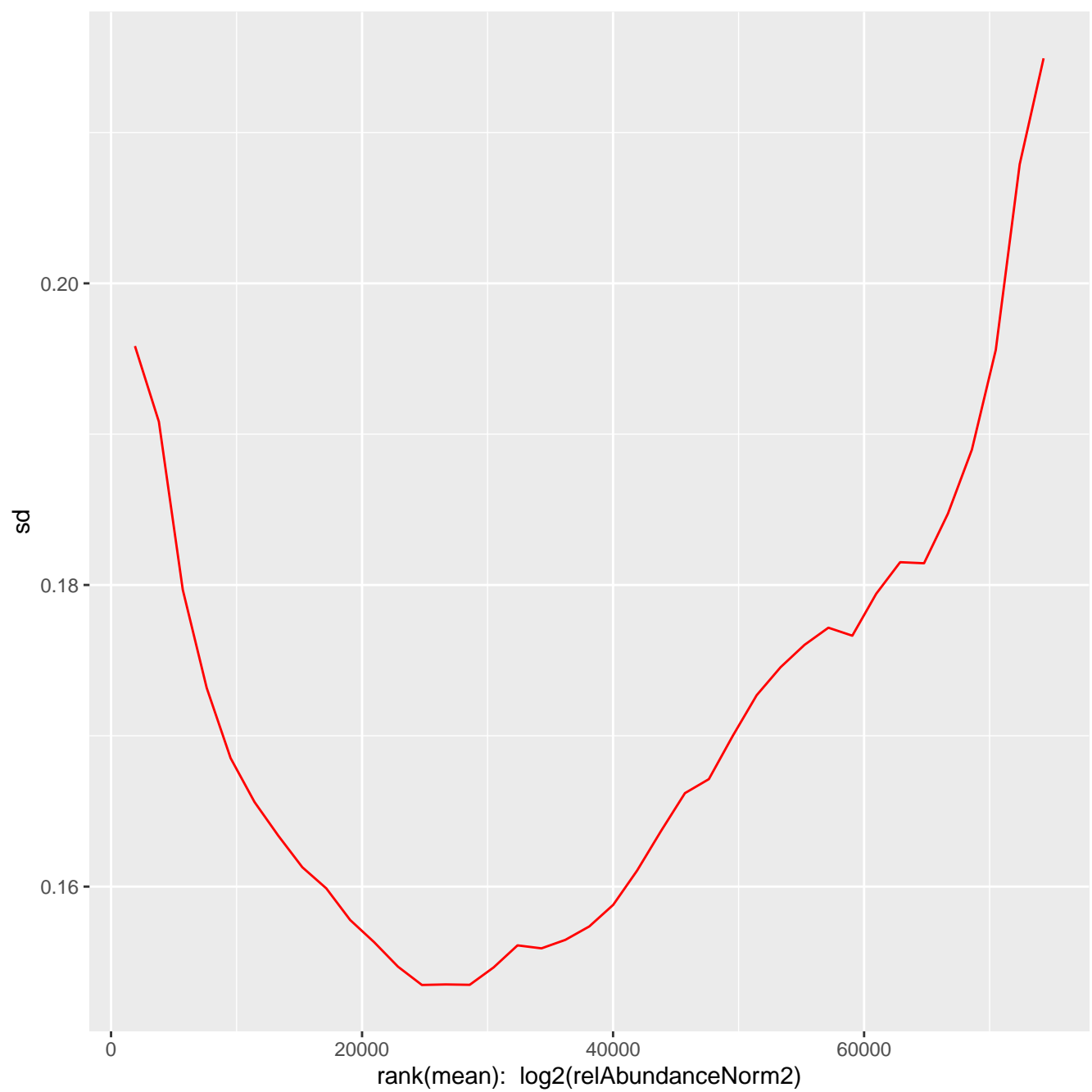
# Convergence Tracking, Iterations 2–10

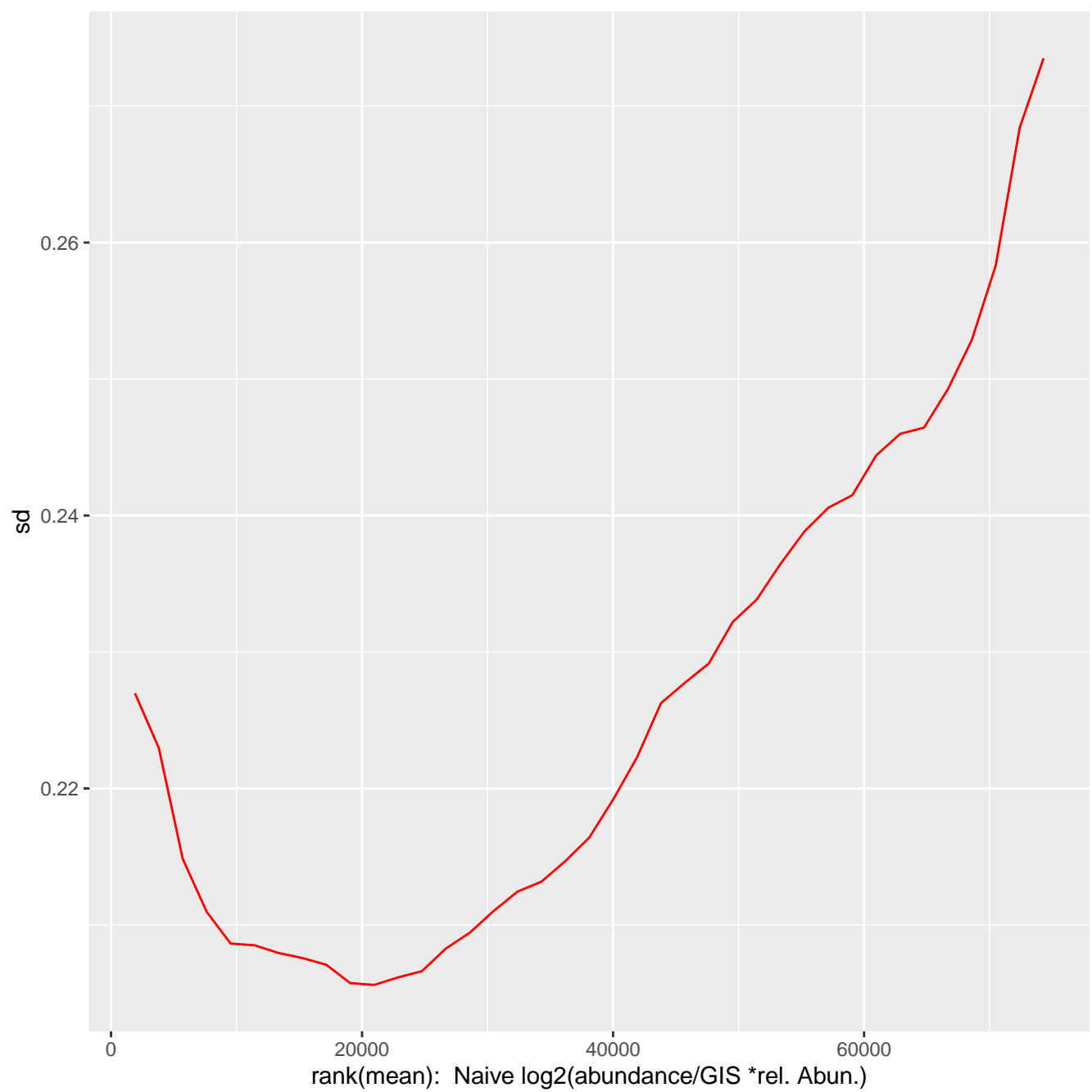
## Linear Scale

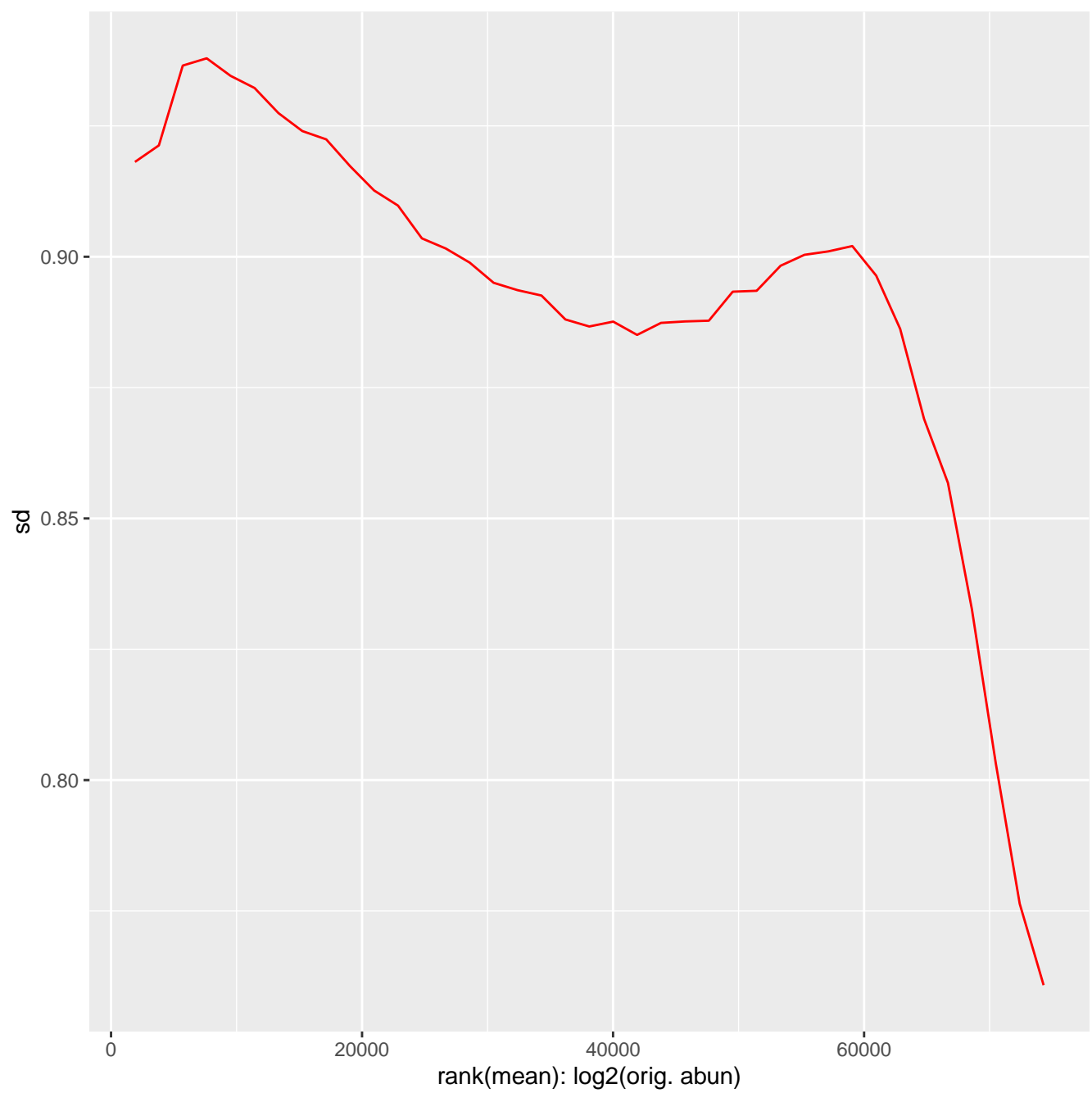


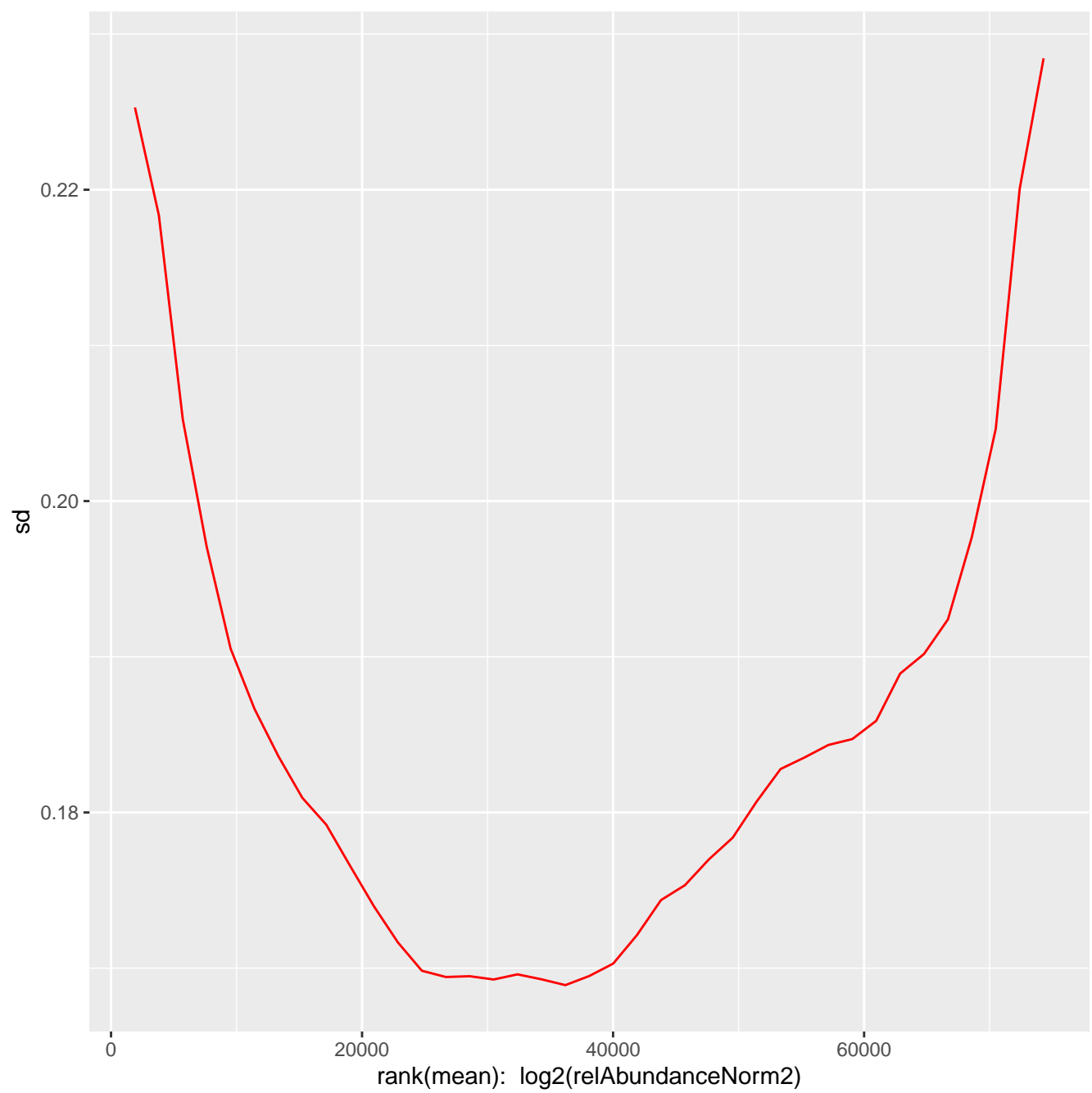
## Log10 Scale

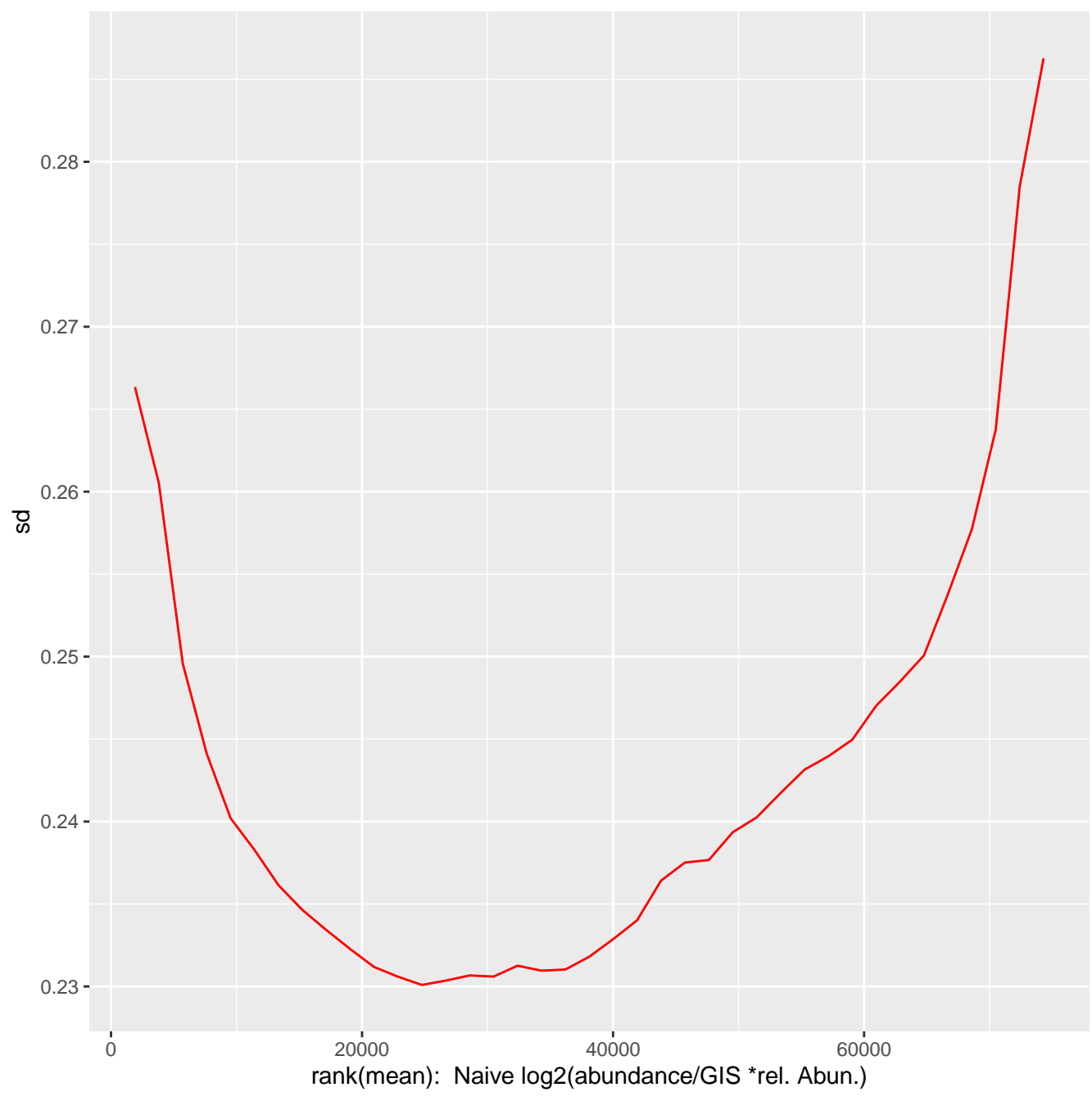




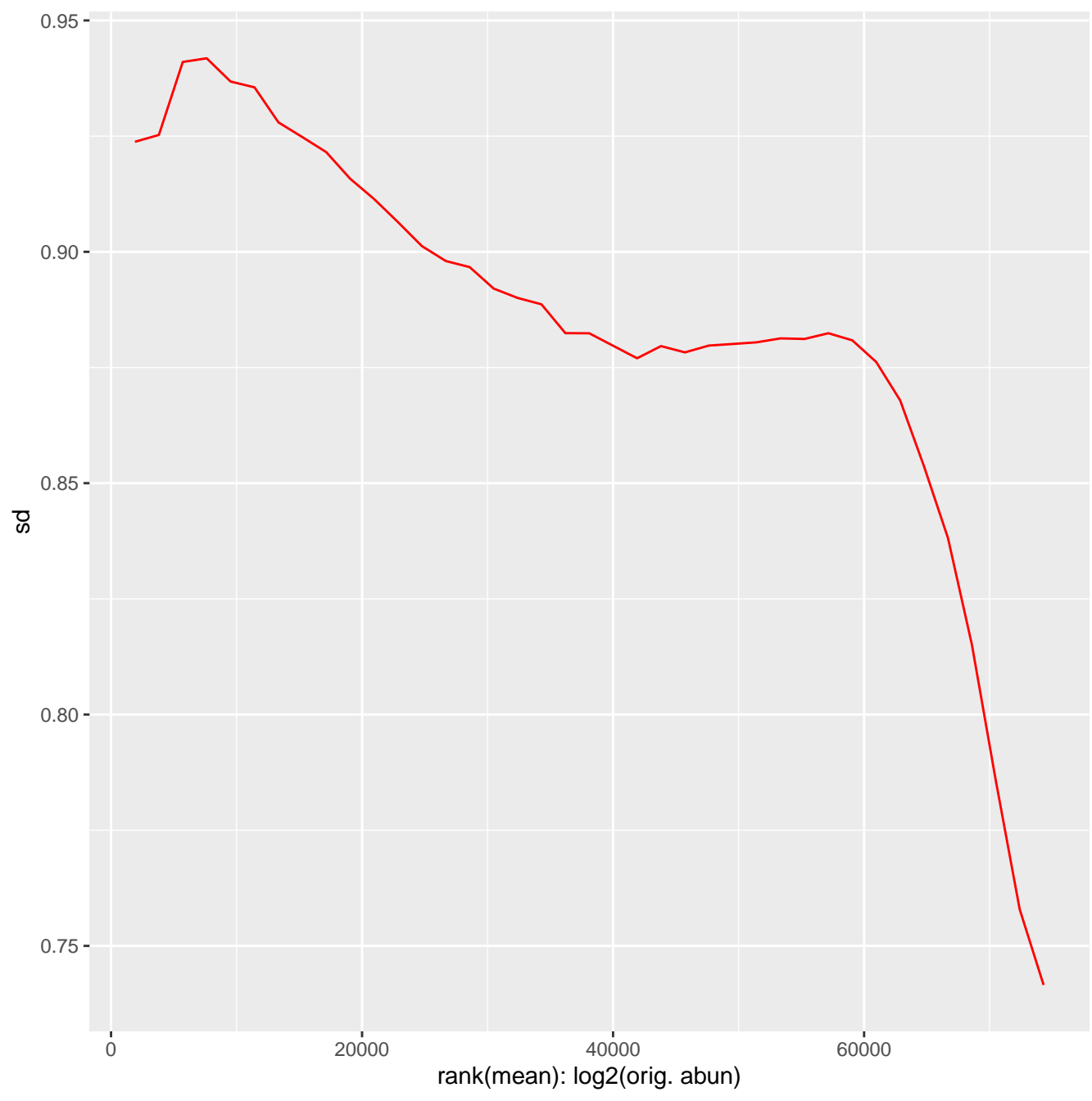




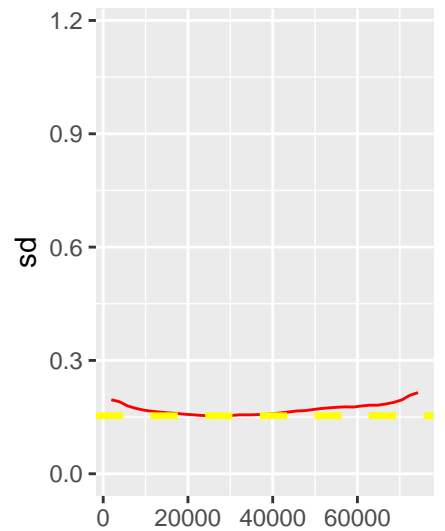
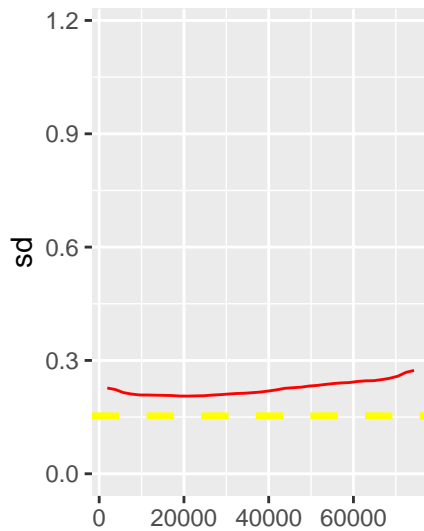
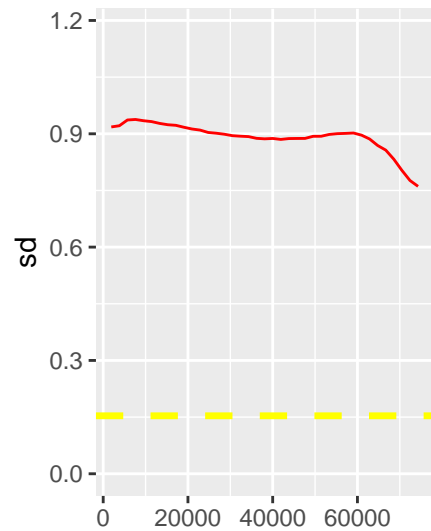








Variance (mean-SD) P  
Matrices of Dimensions:

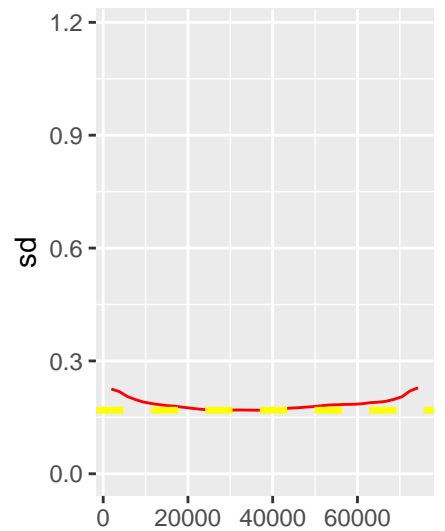
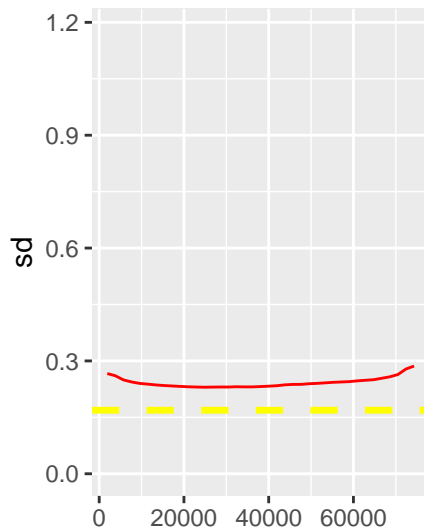
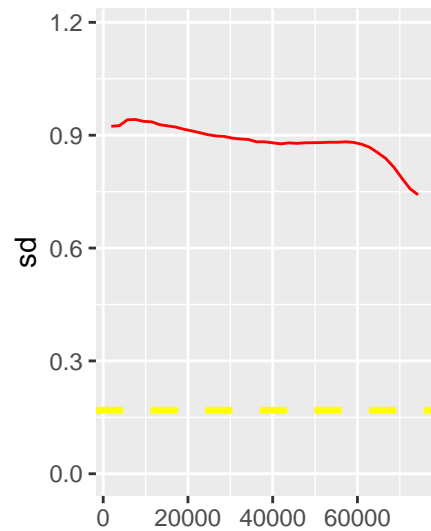


rank(mean): log2(orig.abund)

rank(mean): Naive log2(abundance/GIS rank)

rank(mean): log2(relAbundance)

Variance (mean-SD) P  
Matrices\* of Dimension



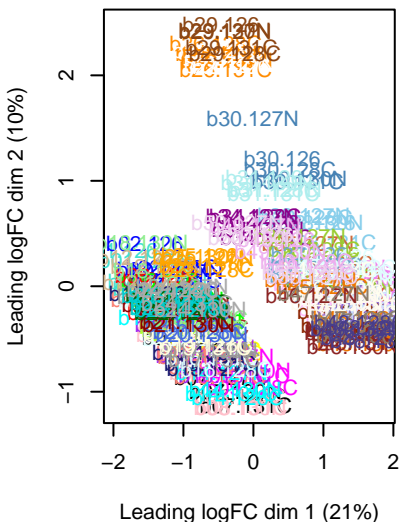
rank(mean): log2(orig.abund)

rank(mean): Naive log2(abundance/GIS rank)

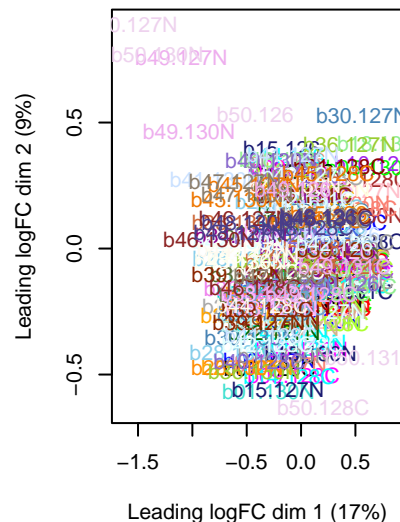
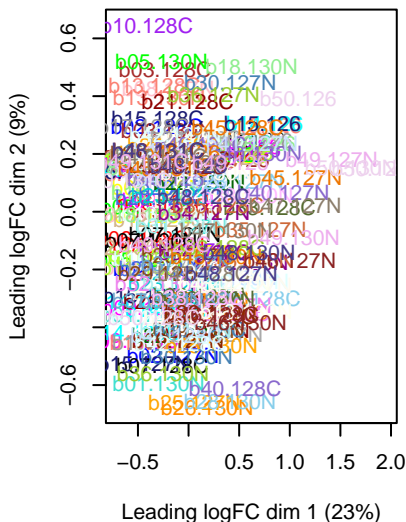
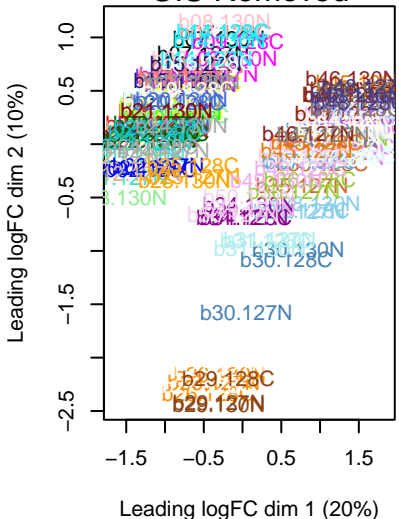
rank(mean): log2(relAbundance)

\*No GIS control sample

ORIGINAL log2(abundance)



Naive log2(abundance/GIS \*Rel AbTAMPOR log2(abundance) [10iteration]

ORIGINAL log2(abundance)  
GIS RemovedNaive log2(abundance/GIS \*Rel AbTAMPOR log2(abundance) [10iteration]  
GIS Removed