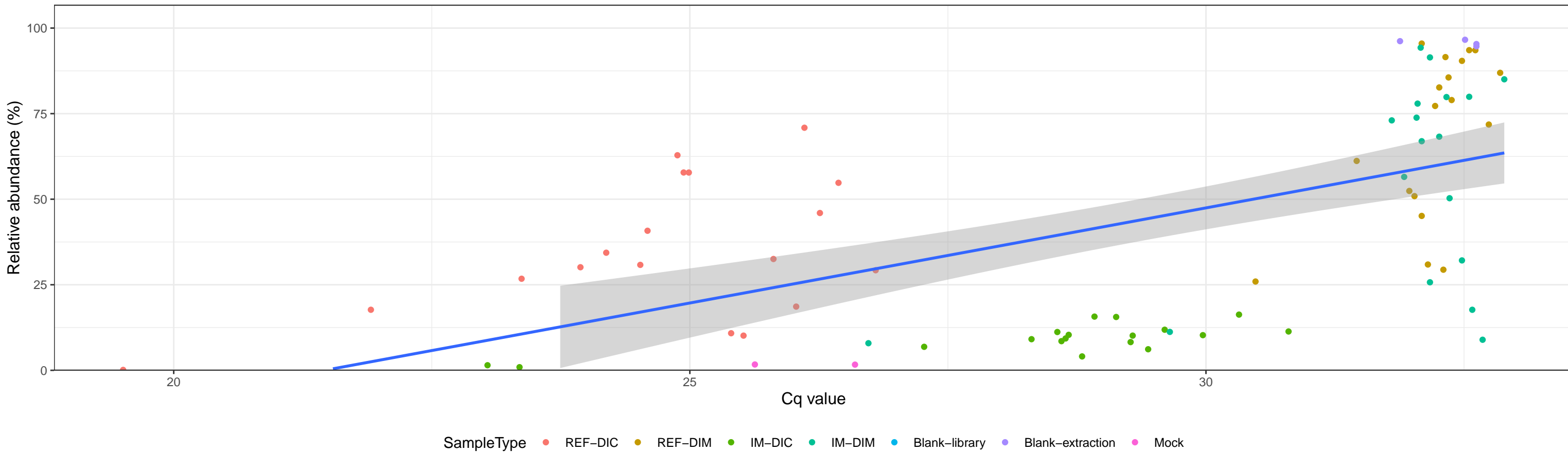


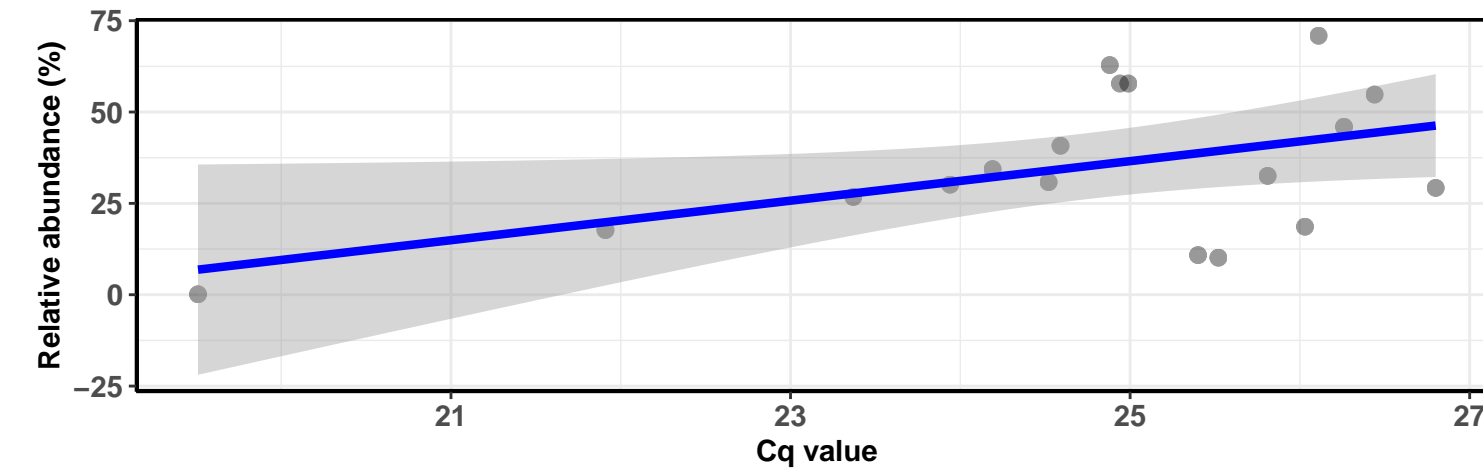
D\_0\_\_Bacteria; D\_1\_\_Proteobacteria; D\_2\_\_Gammaproteobacteria; D\_3\_\_Pseudomonadales; D\_4\_\_Pseudomonadaceae; D\_5\_\_Pseudomonas

Correlation with all samples



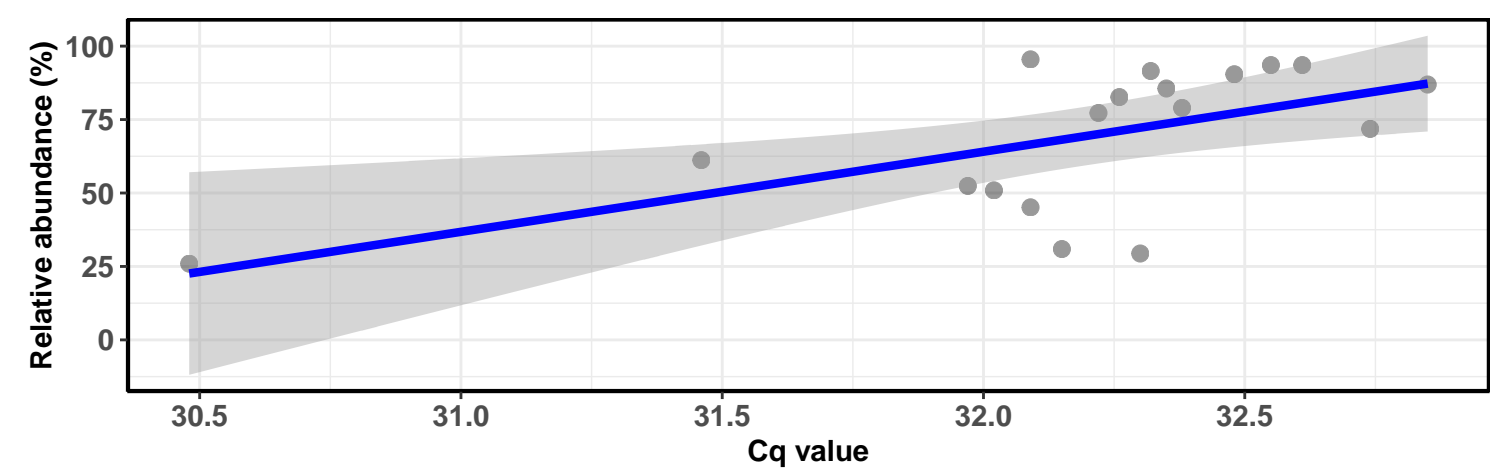
Correlation within the sample type: REF-DIC

$\log_e(S) = 6.486$ ,  $p = 0.191$ ,  $\rho_{\text{Spearman}} = 0.323$ ,  $CI_{95\%} [-0.169, 0.686]$ ,  $n = 18$



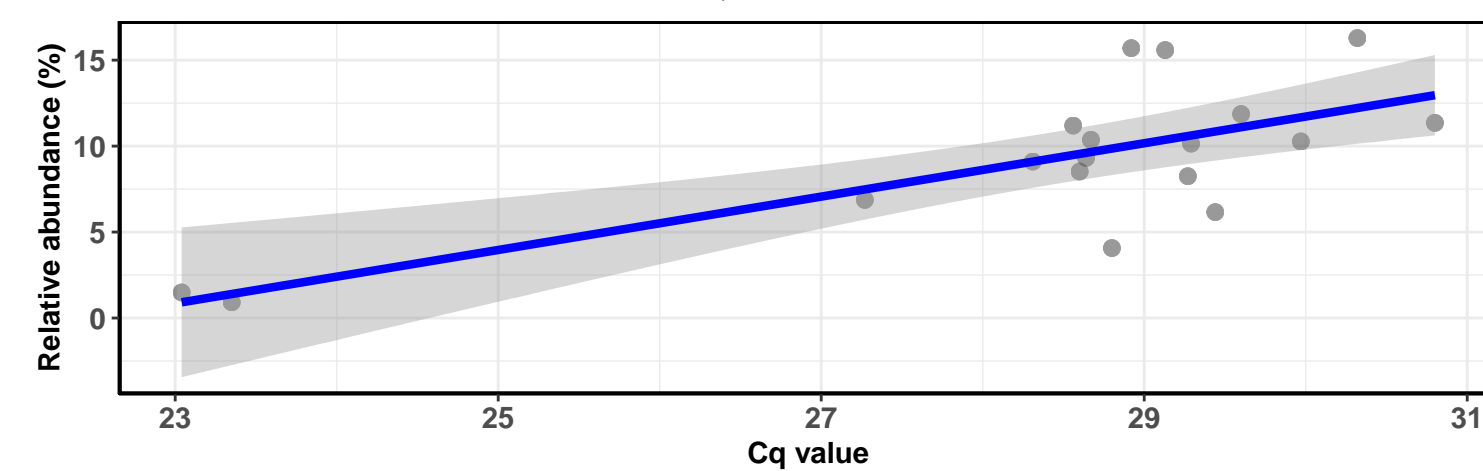
Correlation within the sample type: REF-DIM

$\log_e(S) = 6.025$ ,  $p = 0.013$ ,  $\rho_{\text{Spearman}} = 0.573$ ,  $CI_{95\%} [0.145, 0.820]$ ,  $n = 18$



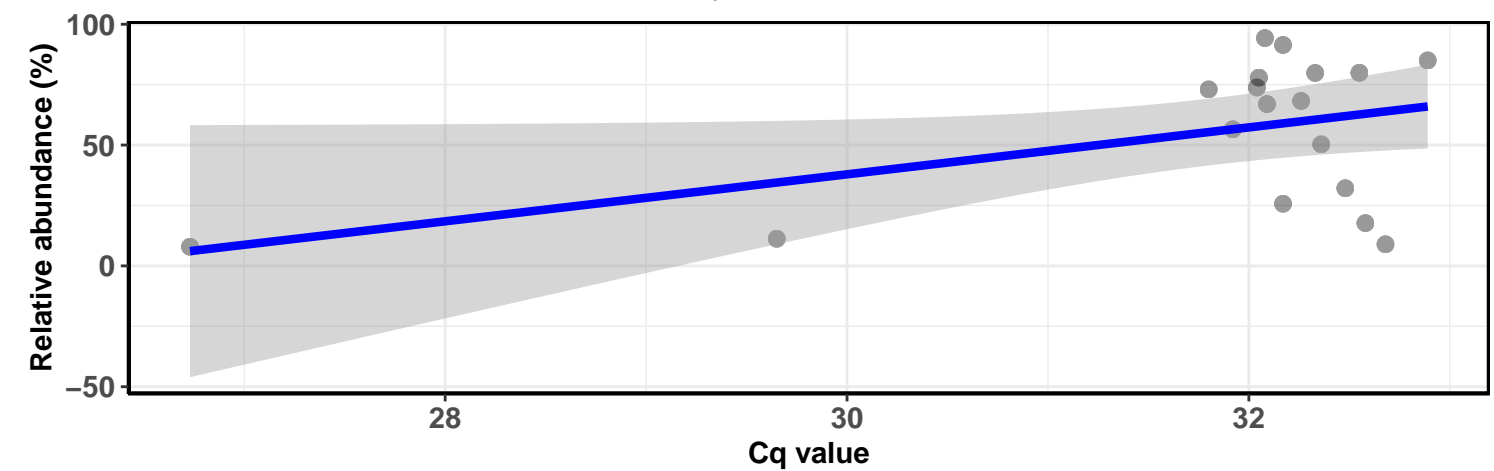
Correlation within the sample type: IM-DIC

$\log_e(S) = 6.001$ ,  $p = 0.011$ ,  $\rho_{\text{Spearman}} = 0.583$ ,  $CI_{95\%} [0.160, 0.825]$ ,  $n = 18$



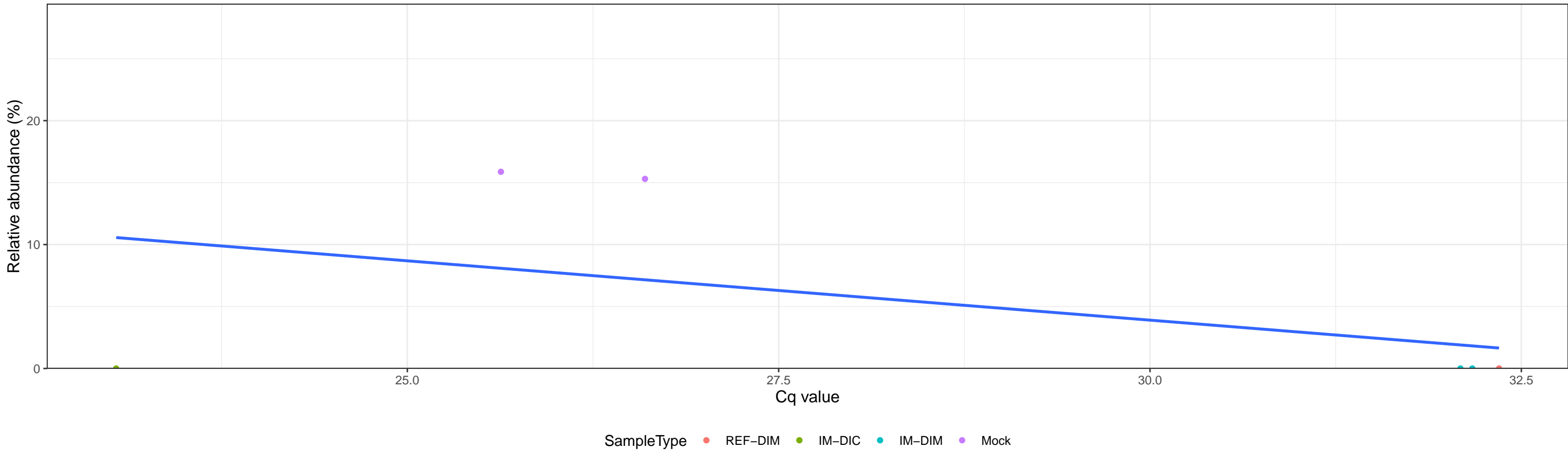
Correlation within the sample type: IM-DIM

$\log_e(S) = 6.752$ ,  $p = 0.645$ ,  $\rho_{\text{Spearman}} = 0.117$ ,  $CI_{95\%} [-0.370, 0.553]$ ,  $n = 18$

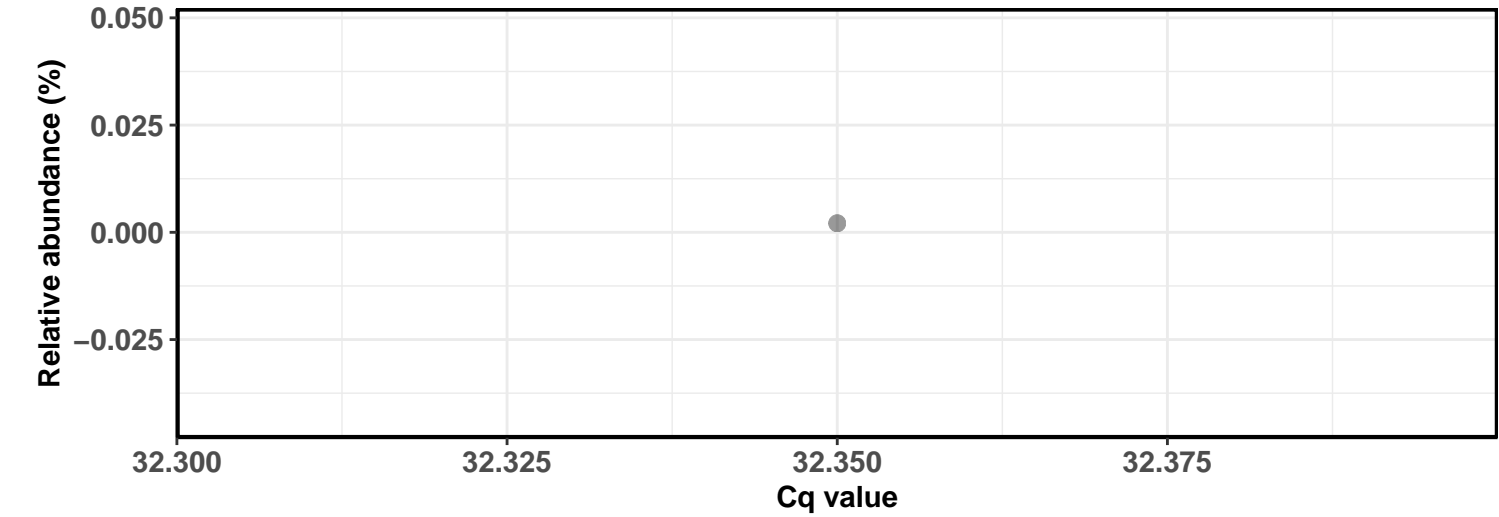


D\_0\_\_Bacteria; D\_1\_\_Proteobacteria; D\_2\_\_Gammaproteobacteria; D\_3\_\_Enterobacteriales; D\_4\_\_Enterobacteriaceae; D\_5\_\_Salmonella

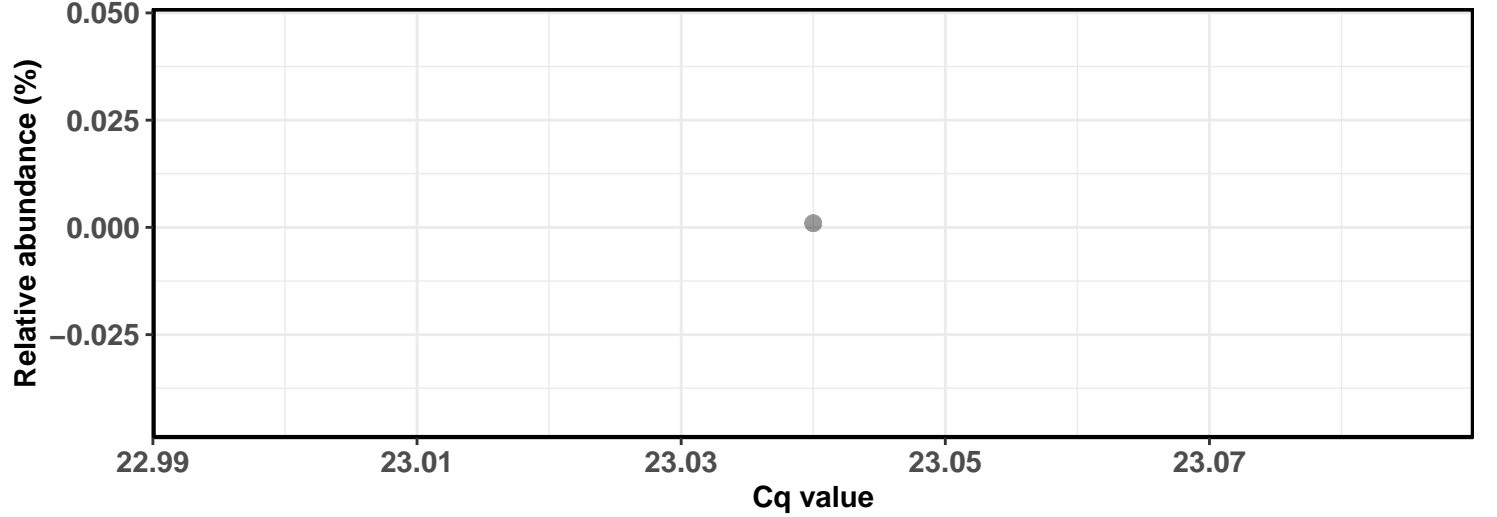
Correlation with all samples



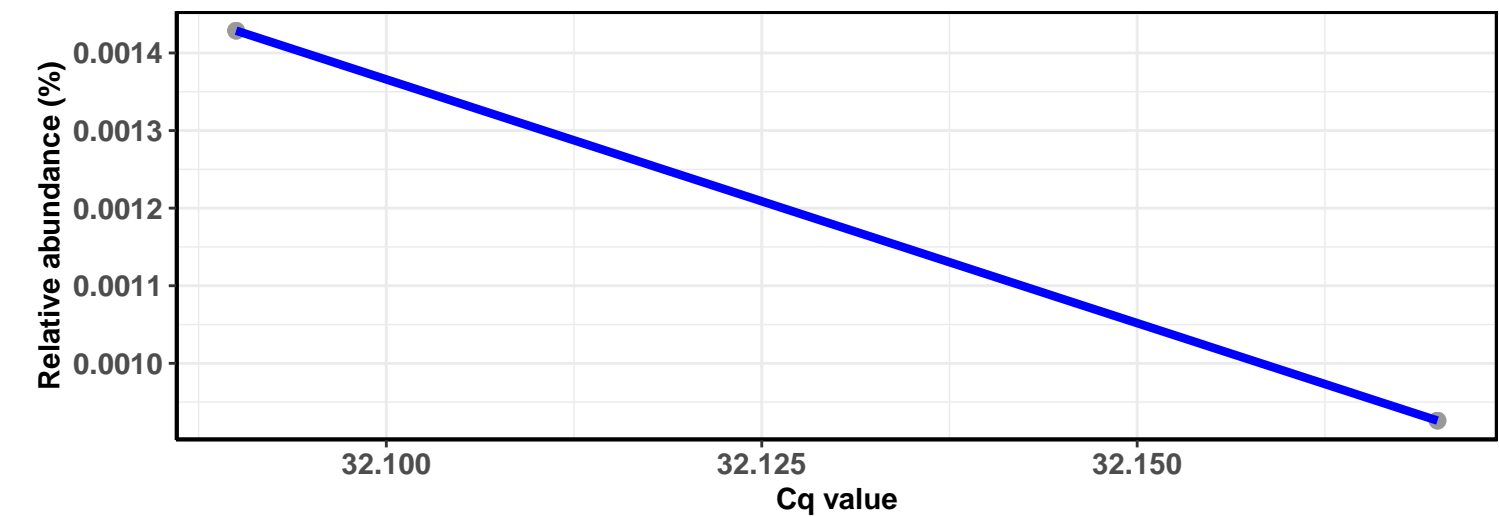
Correlation within the sample type: REF-DIM



Correlation within the sample type: IM-DIC

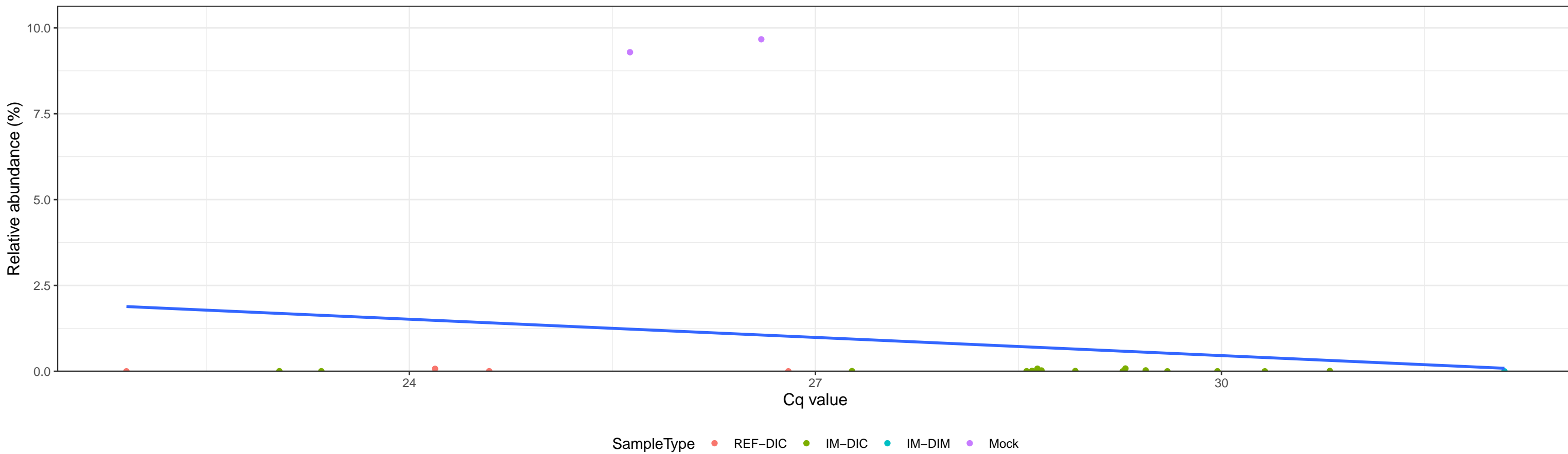


Correlation within the sample type: IM-DIM

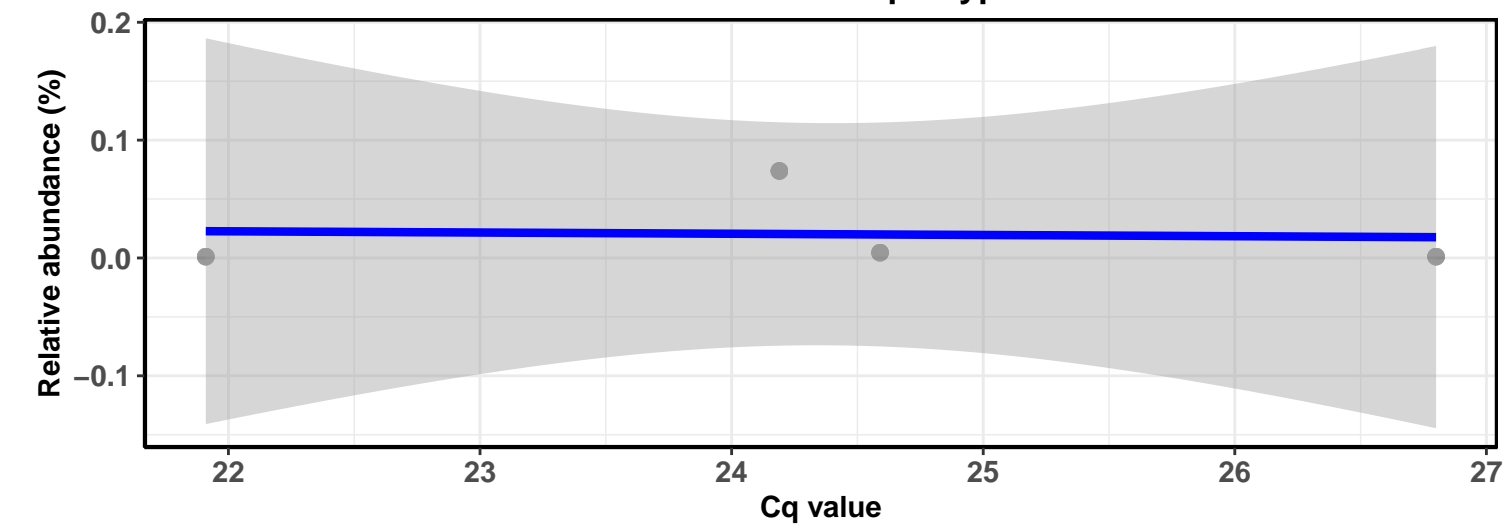


D\_0\_\_Bacteria; D\_1\_\_Proteobacteria; D\_2\_\_Gammaproteobacteria; D\_3\_\_Enterobacteriales; D\_4\_\_Enterobacteriaceae; D\_5\_\_Escherichia–Shigella

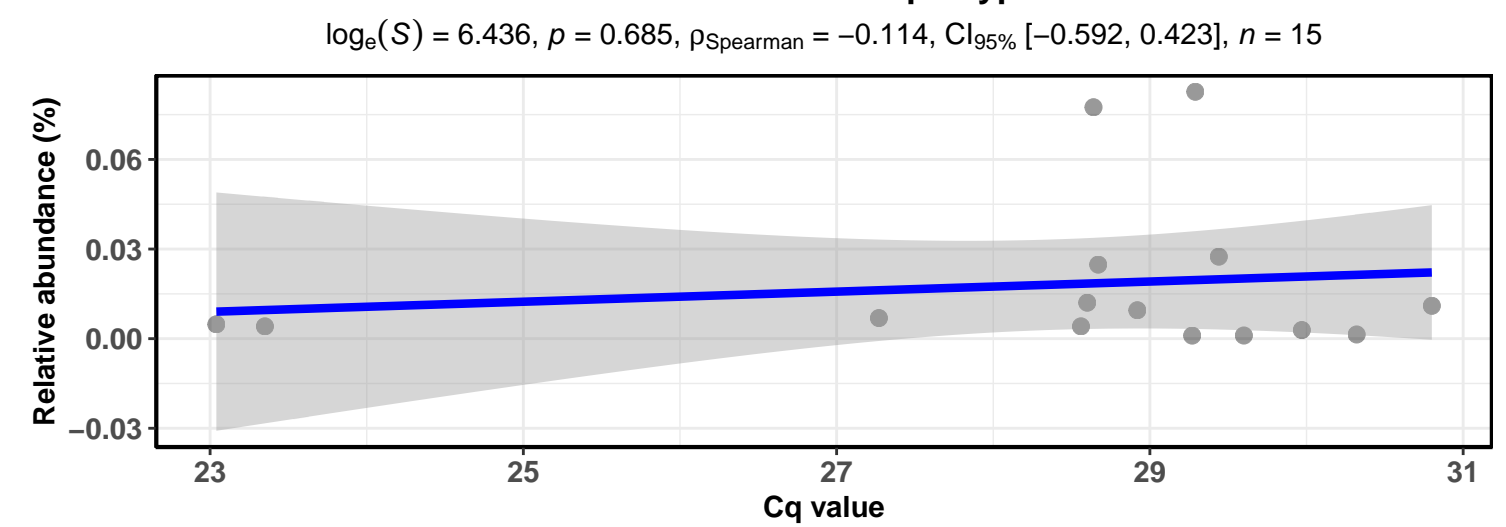
Correlation with all samples



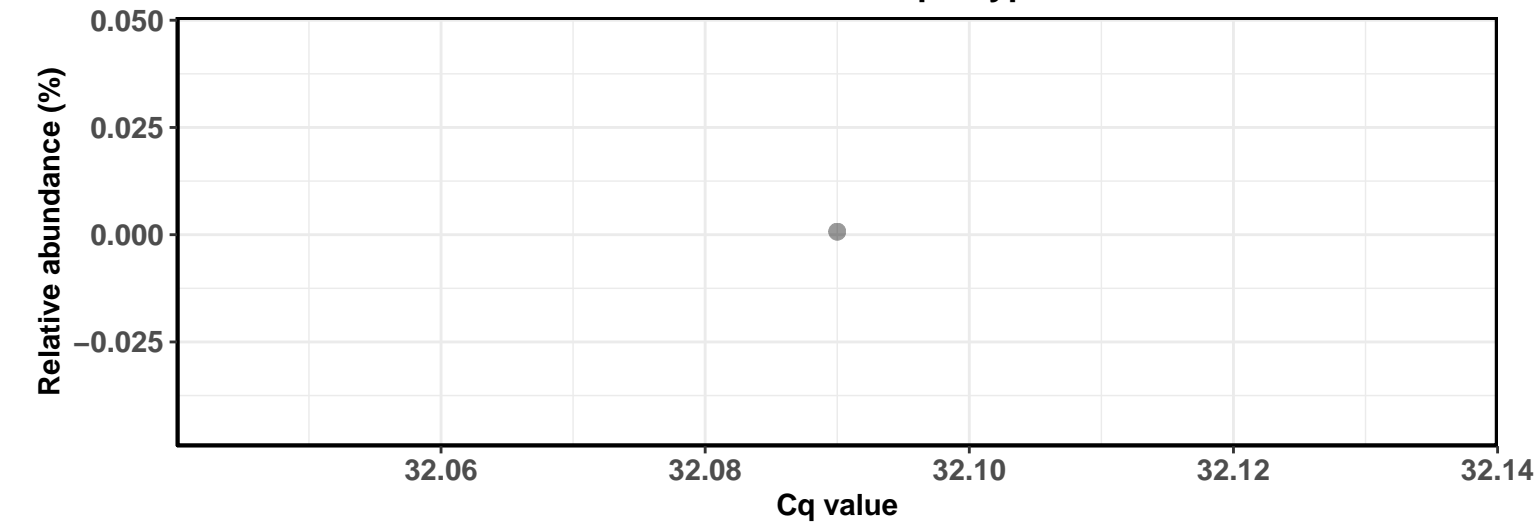
Correlation within the sample type: REF-DIC



Correlation within the sample type: IM-DIC

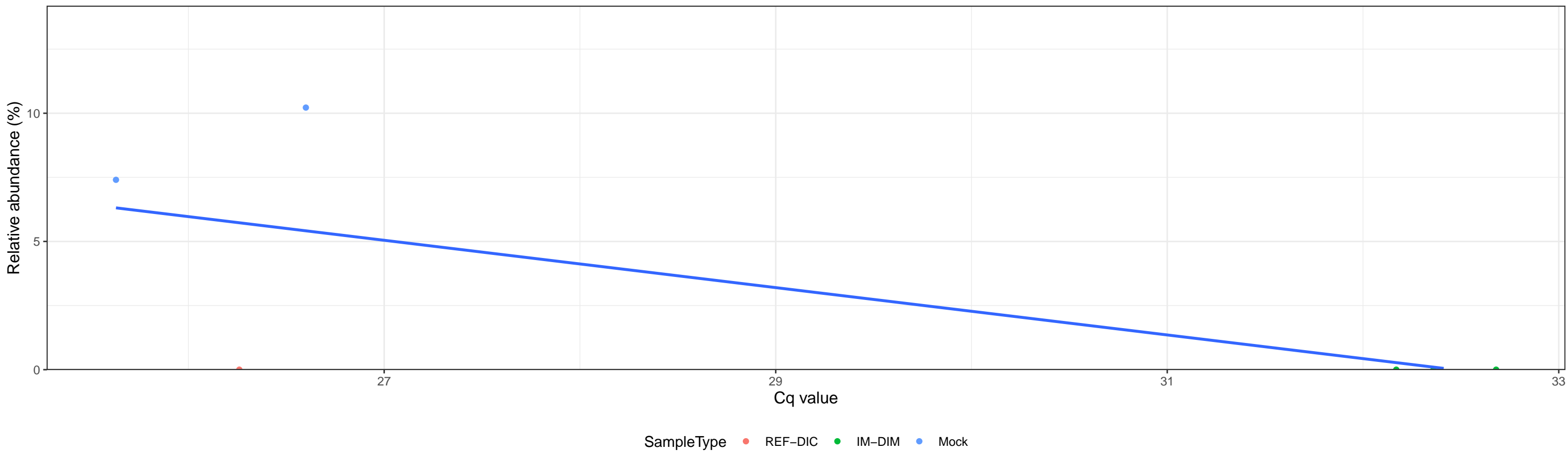


Correlation within the sample type: IM-DIM

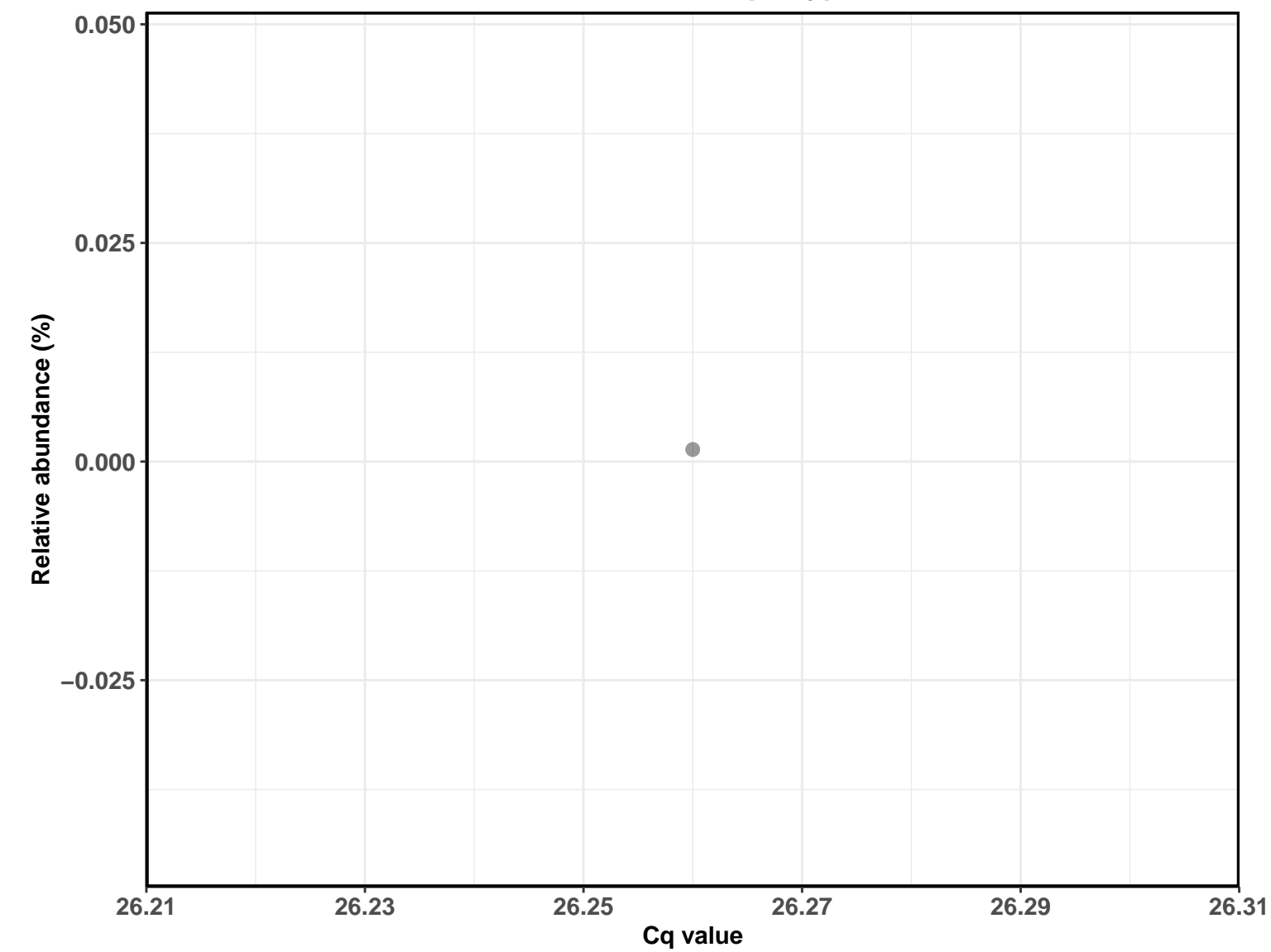


D\_0\_\_Bacteria; D\_1\_\_Firmicutes; D\_2\_\_Bacilli; D\_3\_\_Bacillales; D\_4\_\_Bacillaceae; D\_5\_\_Bacillus

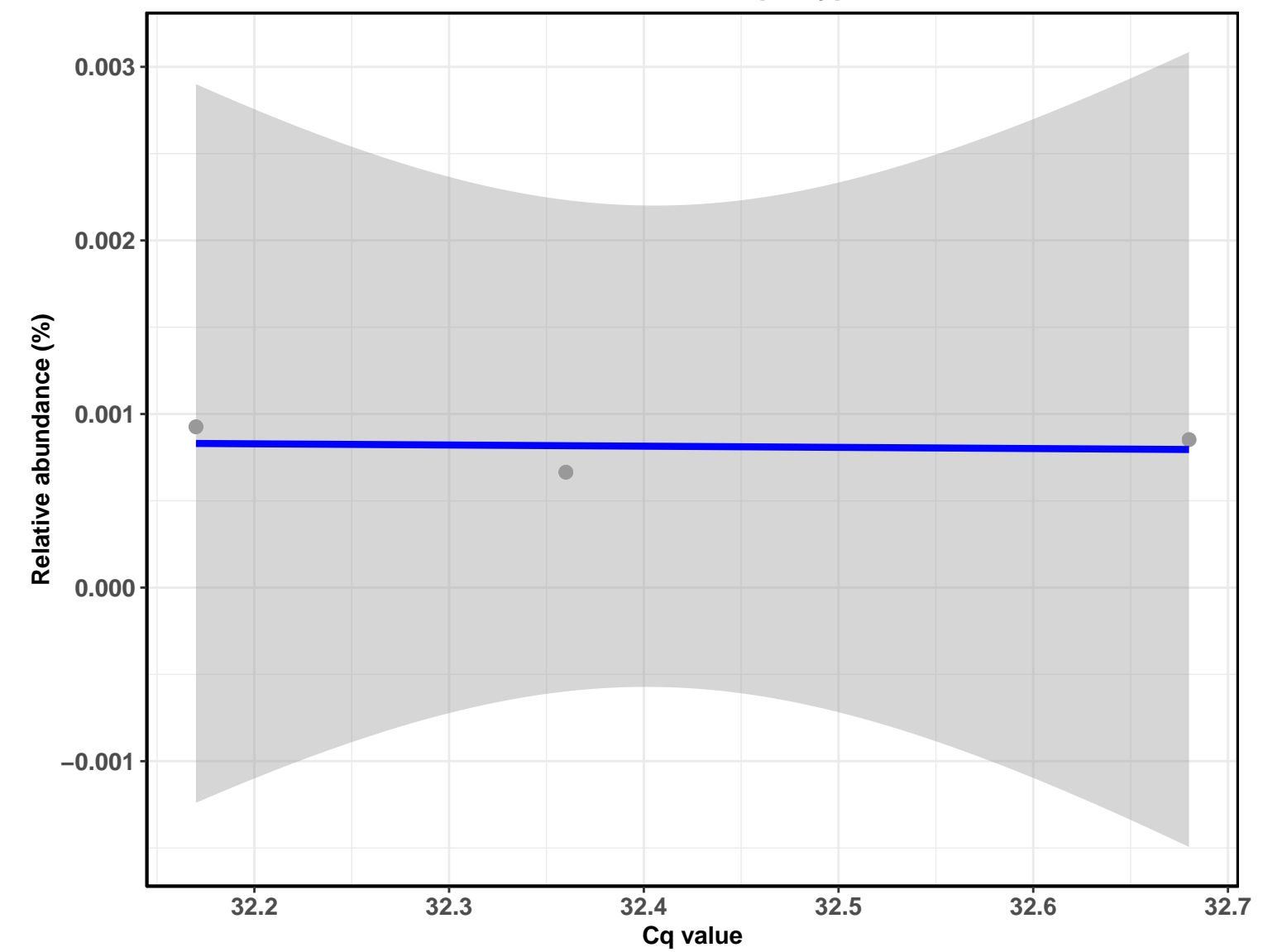
Correlation with all samples



Correlation within the sample type: REF-DIC

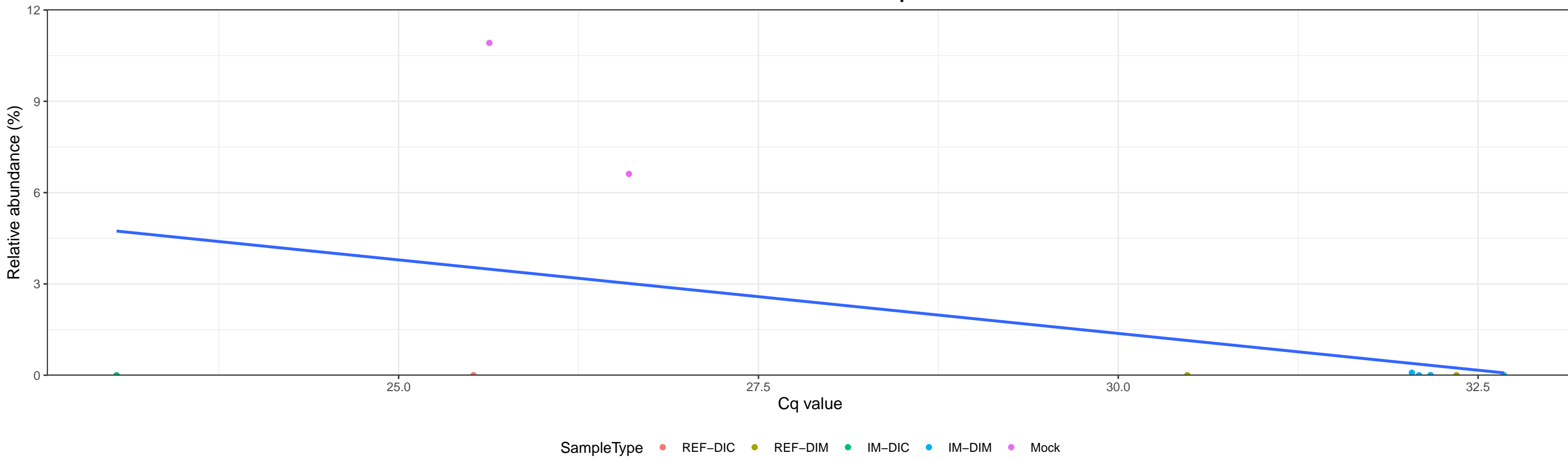


Correlation within the sample type: IM-DIM

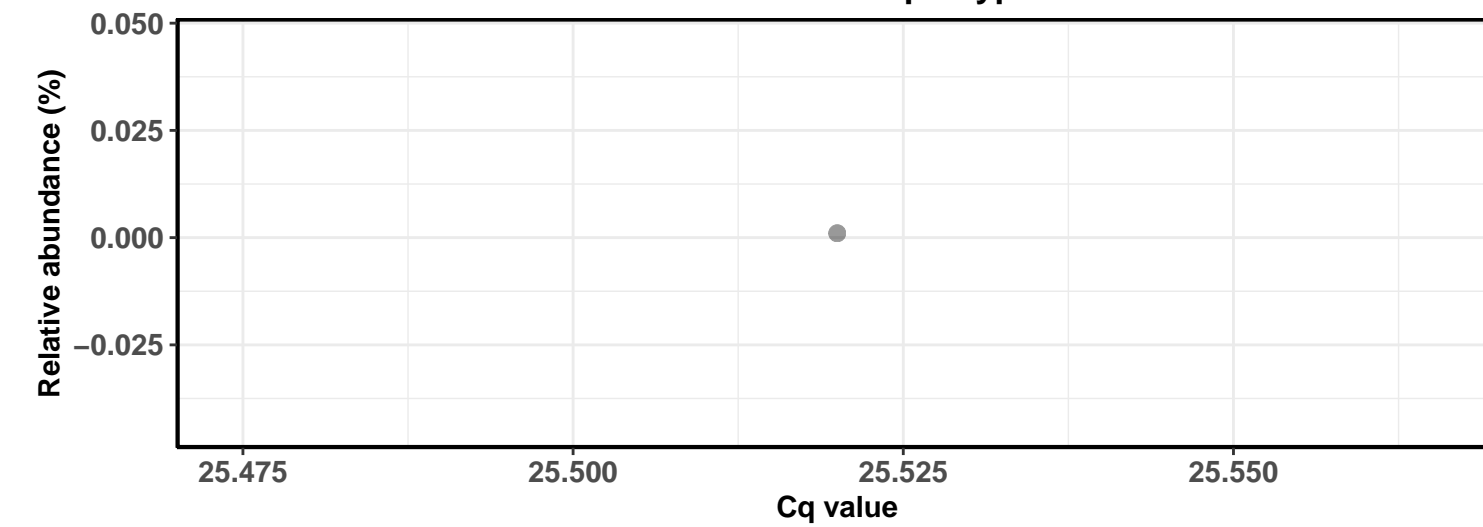


D\_0\_\_Bacteria; D\_1\_\_Proteobacteria; D\_2\_\_Gammaproteobacteria; D\_3\_\_Pseudomonadales; D\_4\_\_Pseudomonadaceae; D\_5\_\_Pseudomonas

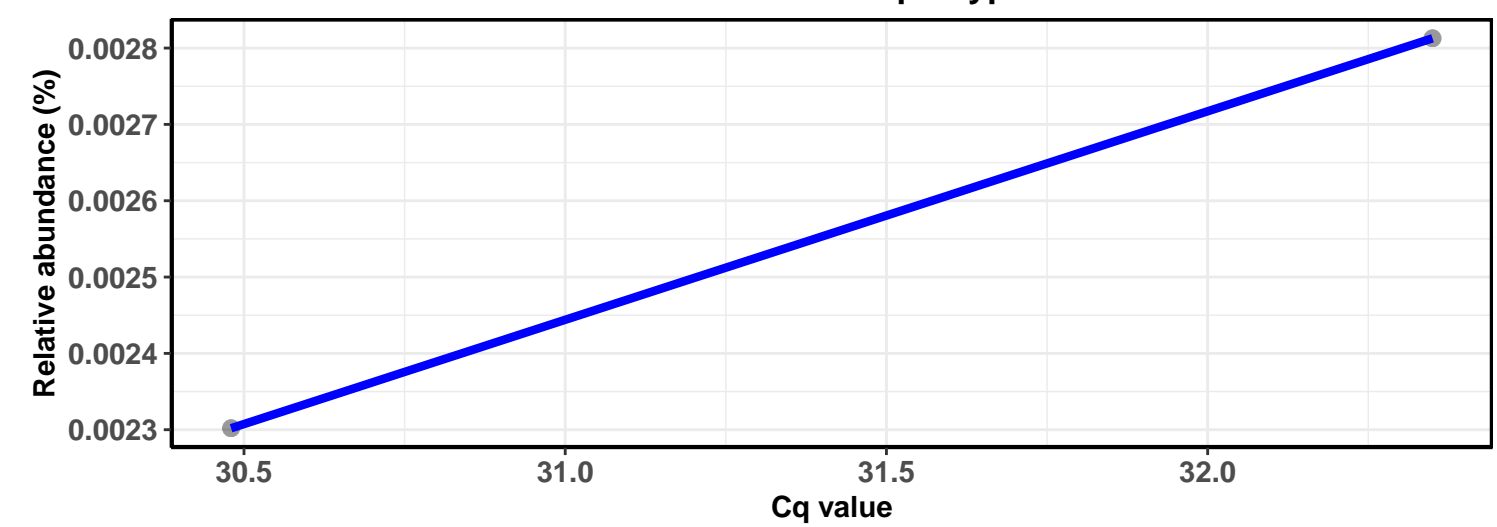
Correlation with all samples



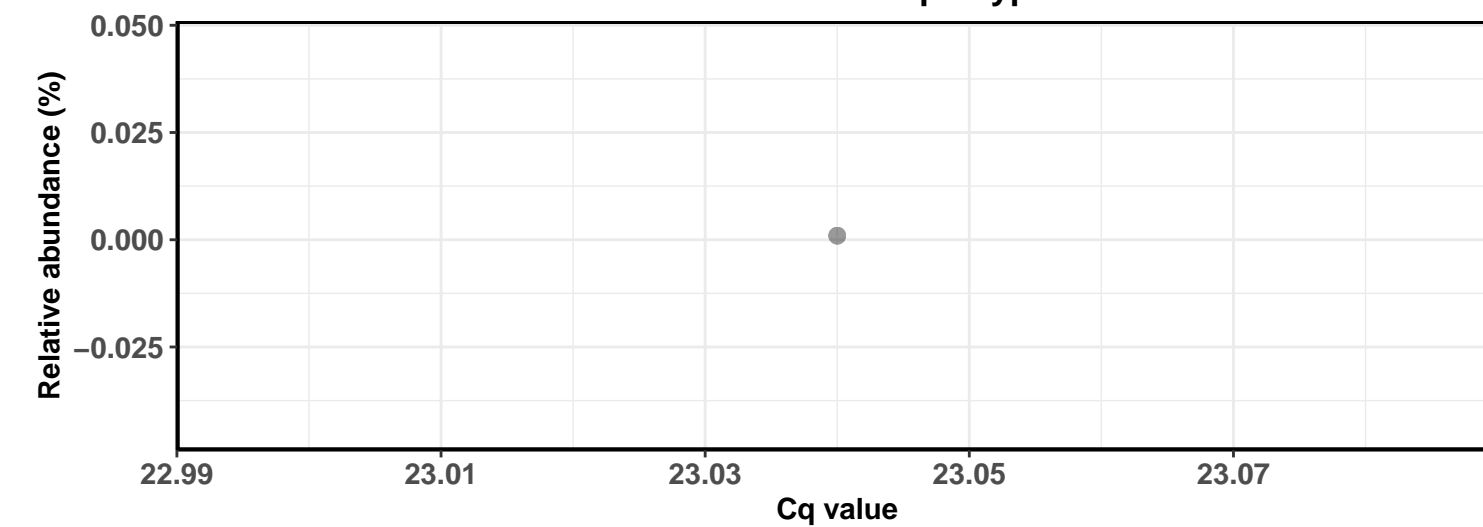
Correlation within the sample type: REF-DIC



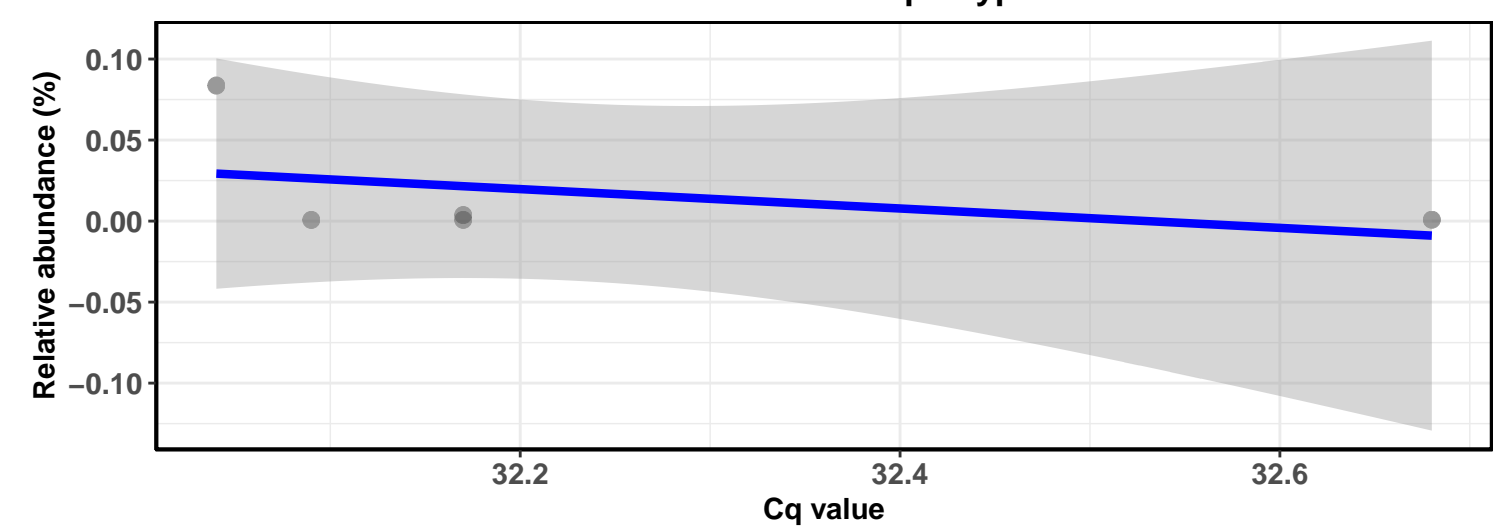
Correlation within the sample type: REF-DIM



Correlation within the sample type: IM-DIC

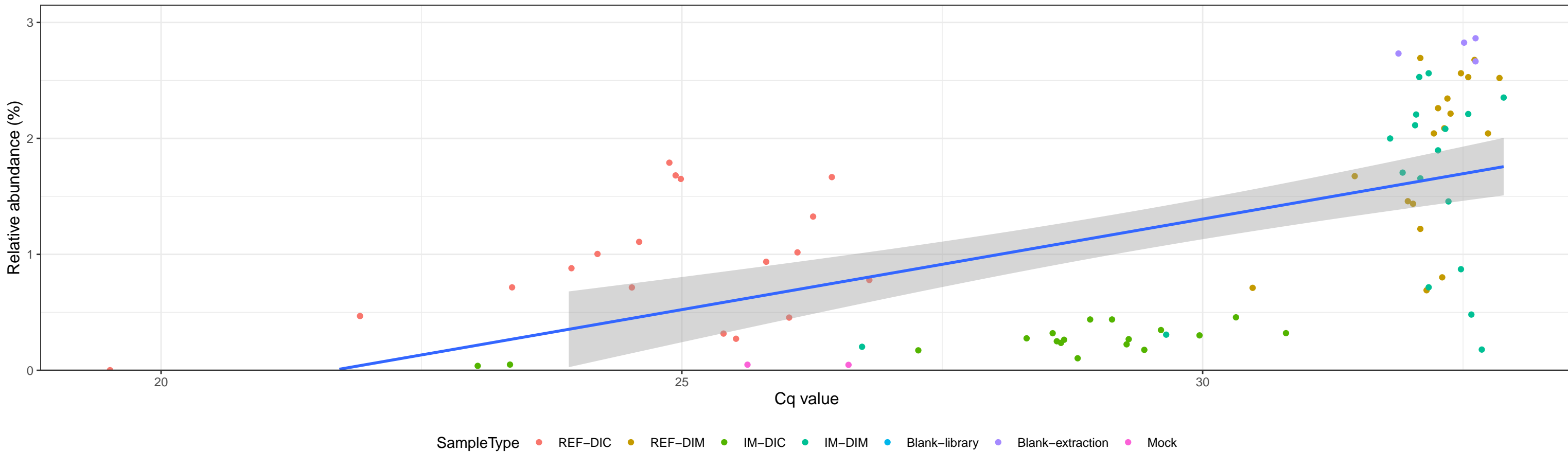


Correlation within the sample type: IM-DIM



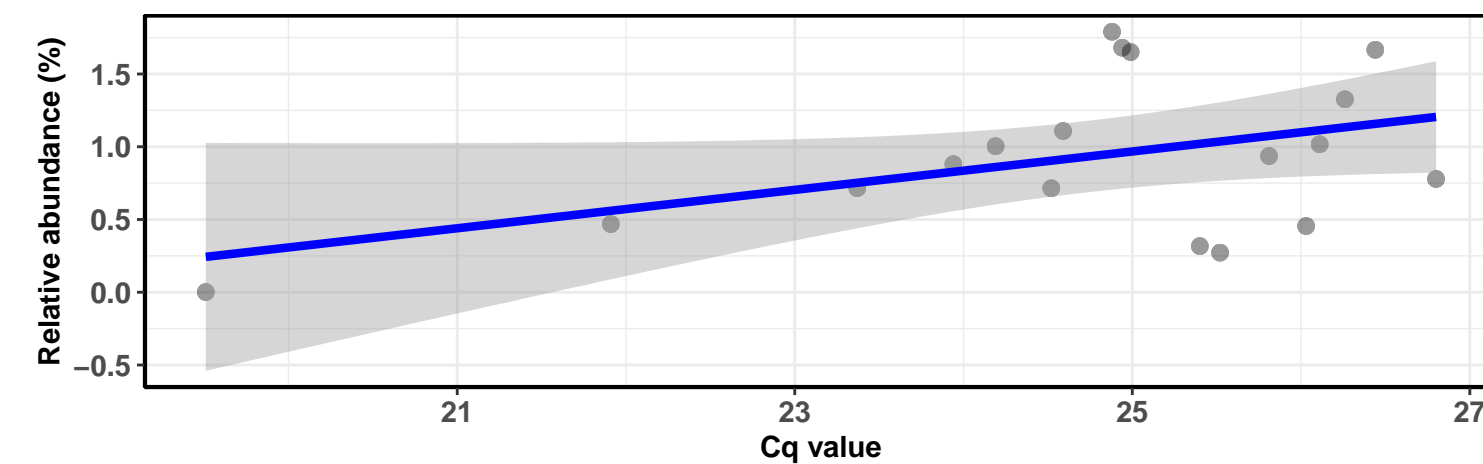
D\_0\_\_Bacteria; D\_1\_\_Proteobacteria; D\_2\_\_Gammaproteobacteria; D\_3\_\_Pseudomonadales; D\_4\_\_Pseudomonadaceae; D\_5\_\_Pseudomonas

### Correlation with all samples



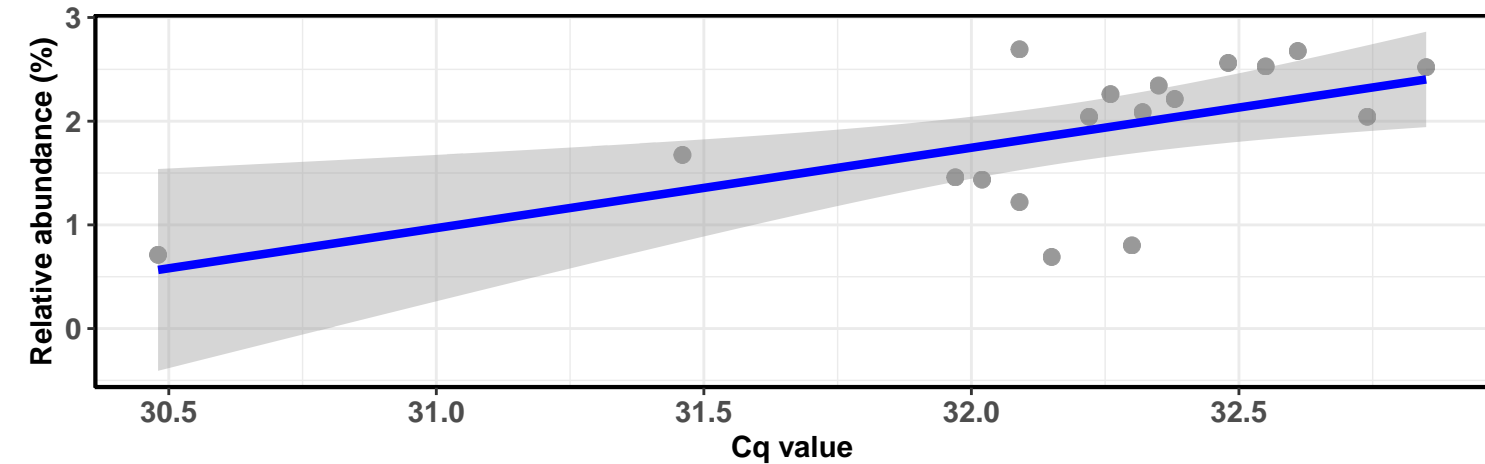
#### Correlation within the sample type: REF-DIC

$\log_e(S) = 6.548$ ,  $p = 0.261$ ,  $\rho_{\text{Spearman}} = 0.280$ ,  $CI_{95\%} [-0.215, 0.660]$ ,  $n = 18$



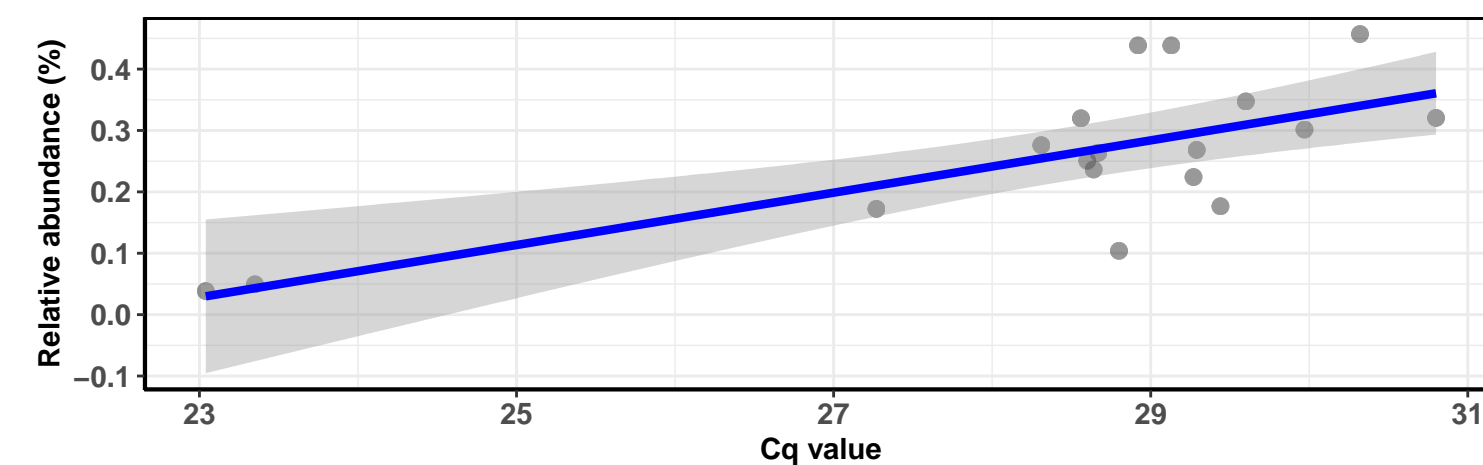
#### Correlation within the sample type: REF-DIM

$\log_e(S) = 5.986$ ,  $p = 0.010$ ,  $\rho_{\text{Spearman}} = 0.590$ ,  $CI_{95\%} [0.169, 0.828]$ ,  $n = 18$



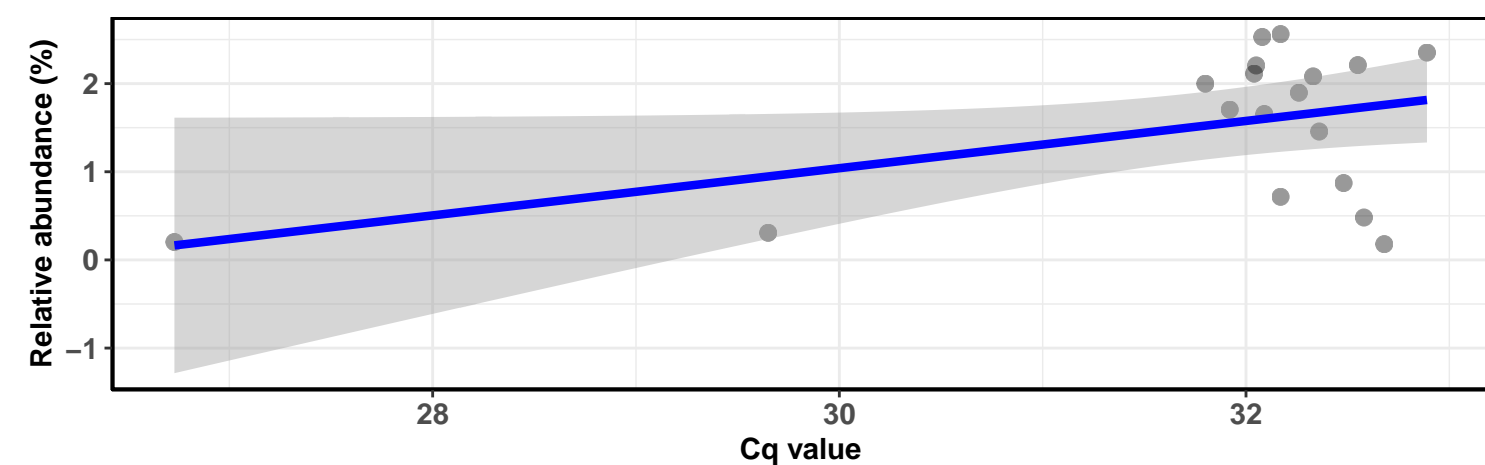
#### Correlation within the sample type: IM-DIC

$\log_e(S) = 5.961$ ,  $p = 0.009$ ,  $\rho_{\text{Spearman}} = 0.600$ ,  $CI_{95\%} [0.184, 0.833]$ ,  $n = 18$

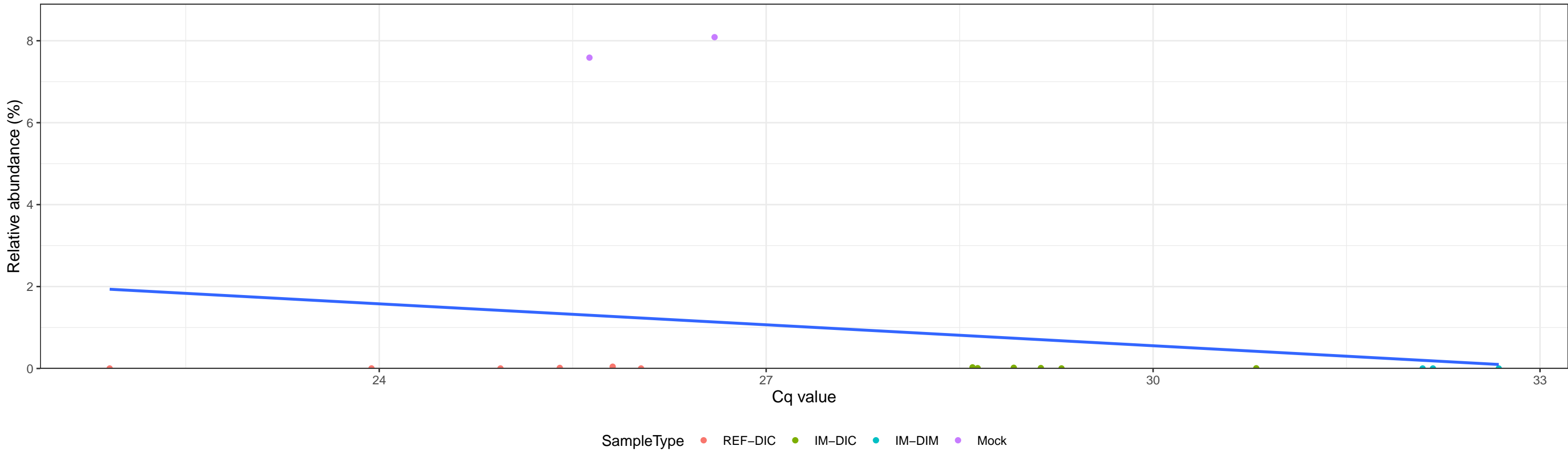


#### Correlation within the sample type: IM-DIM

$\log_e(S) = 6.821$ ,  $p = 0.832$ ,  $\rho_{\text{Spearman}} = 0.054$ ,  $CI_{95\%} [-0.424, 0.508]$ ,  $n = 18$

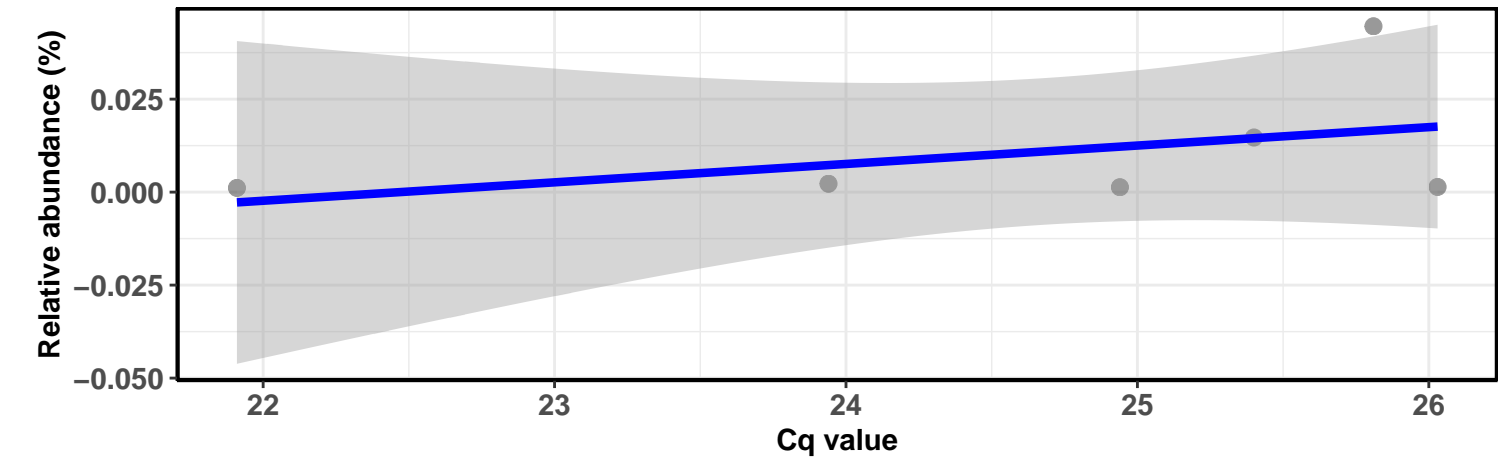


Correlation with all samples



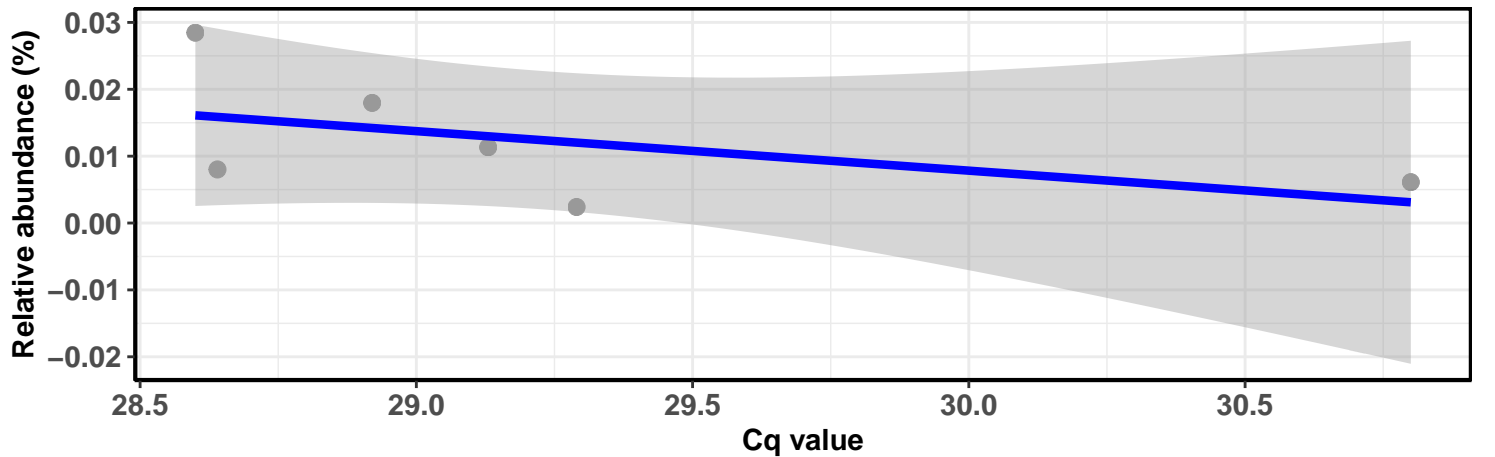
Correlation within the sample type: REF-DIC

$\log_e(S) = 2.773$ ,  $p = 0.266$ ,  $\rho_{\text{Spearman}} = 0.543$ ,  $CI_{95\%} [-0.480, 0.940]$ ,  $n = 6$

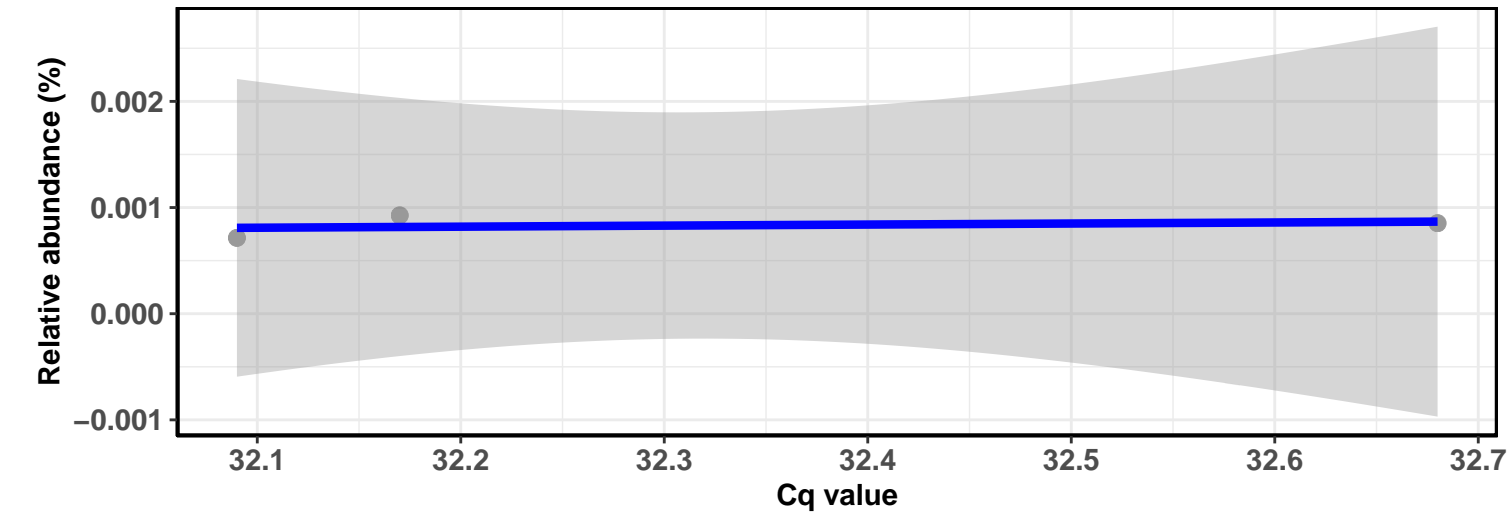


Correlation within the sample type: IM-DIC

$\log_e(S) = 4.127$ ,  $p = 0.072$ ,  $\rho_{\text{Spearman}} = -0.771$ ,  $CI_{95\%} [-0.974, 0.107]$ ,  $n = 6$

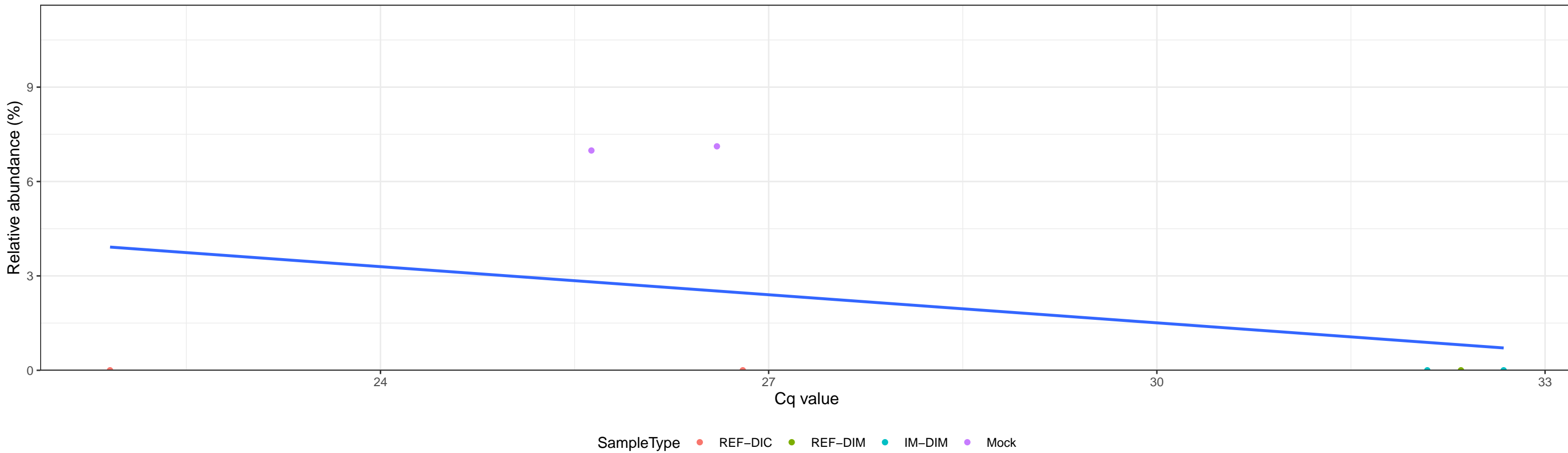


Correlation within the sample type: IM-DIM

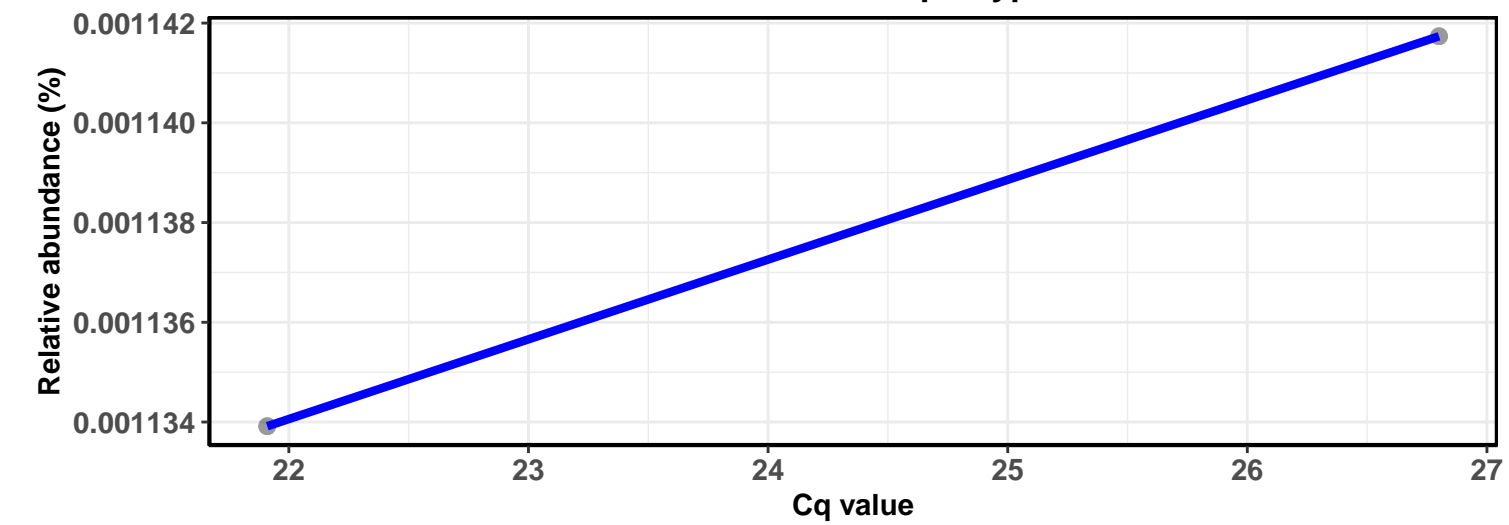


D\_0\_\_Bacteria; D\_1\_\_Proteobacteria; D\_2\_\_Gammaproteobacteria; D\_3\_\_Enterobacteriales; D\_4\_\_Enterobacteriaceae; D\_5\_\_Escherichia-Shigella

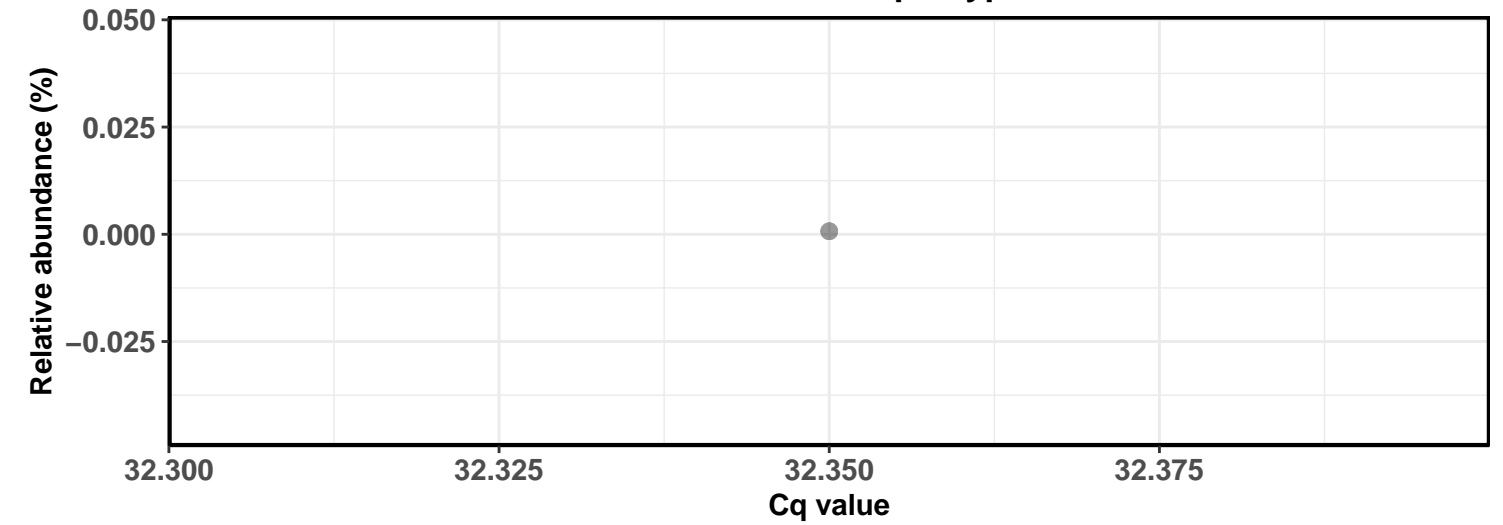
Correlation with all samples



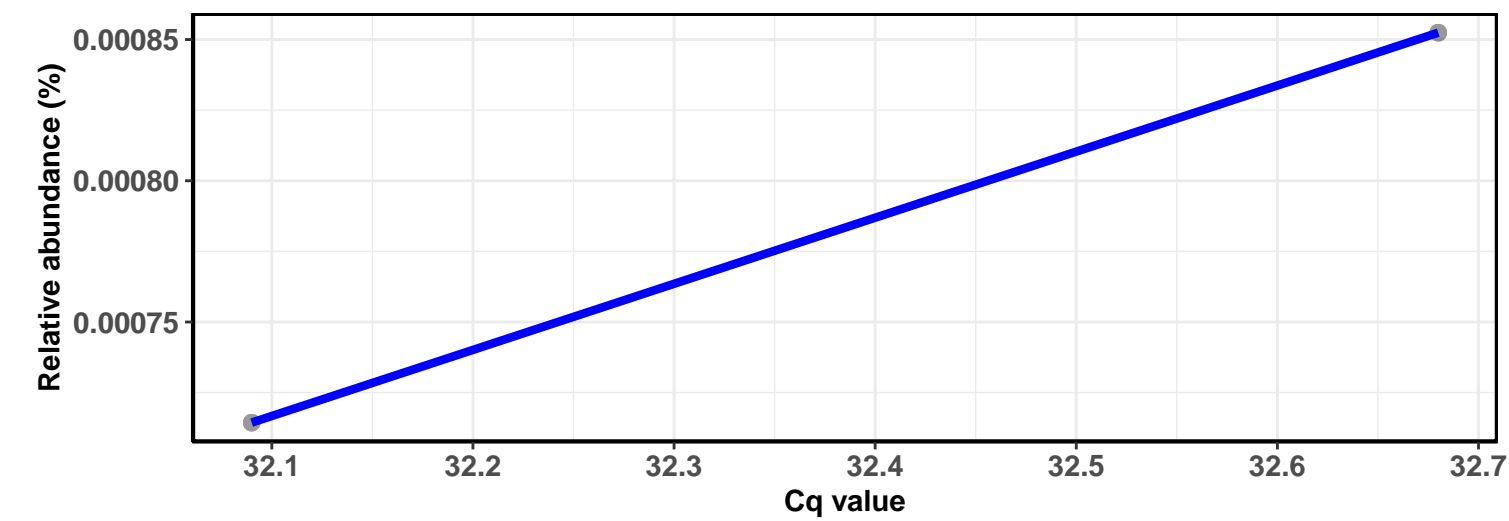
Correlation within the sample type: REF-DIC



Correlation within the sample type: REF-DIM



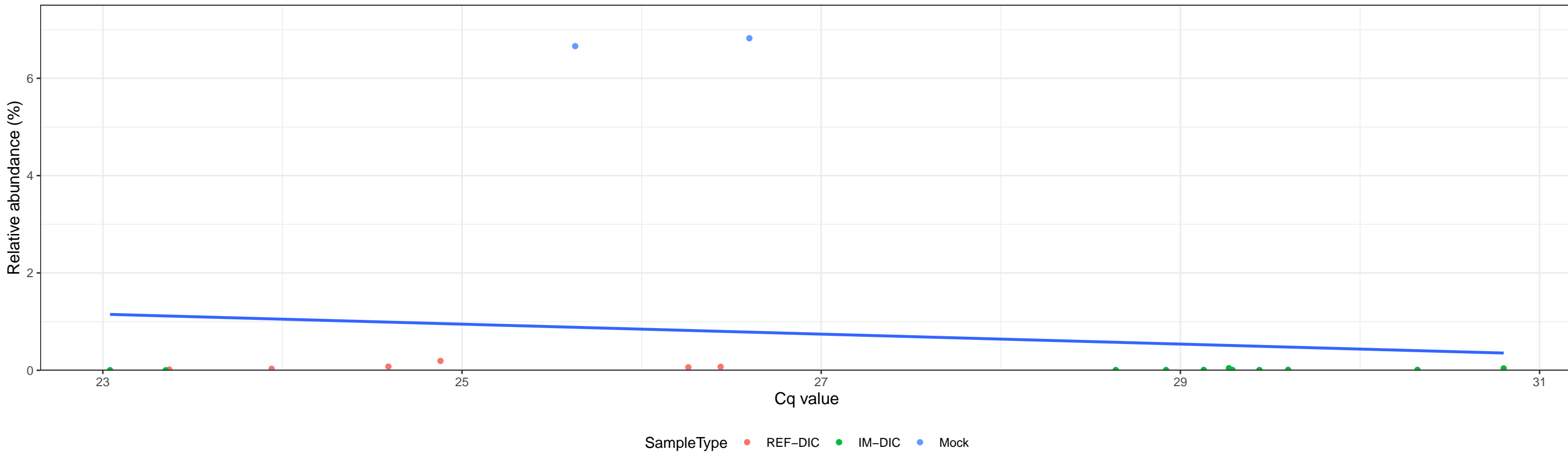
Correlation within the sample type: IM-DIM





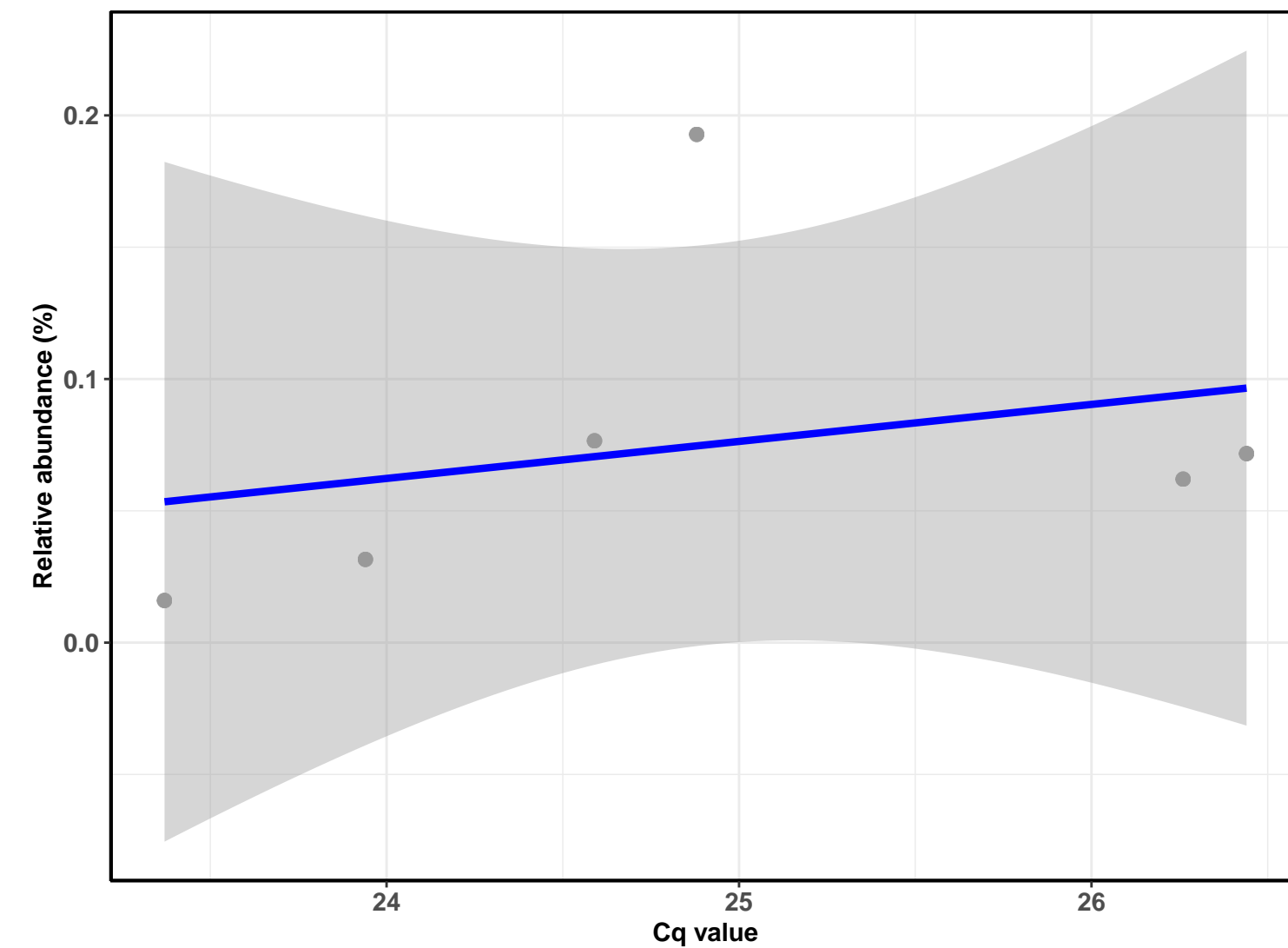
D\_0\_\_Bacteria; D\_1\_\_Firmicutes; D\_2\_\_Bacilli; D\_3\_\_Lactobacillales; D\_4\_\_Lactobacillaceae; D\_5\_\_Lactobacillus; D\_6\_\_Lactobacillus fermentum

Correlation with all samples



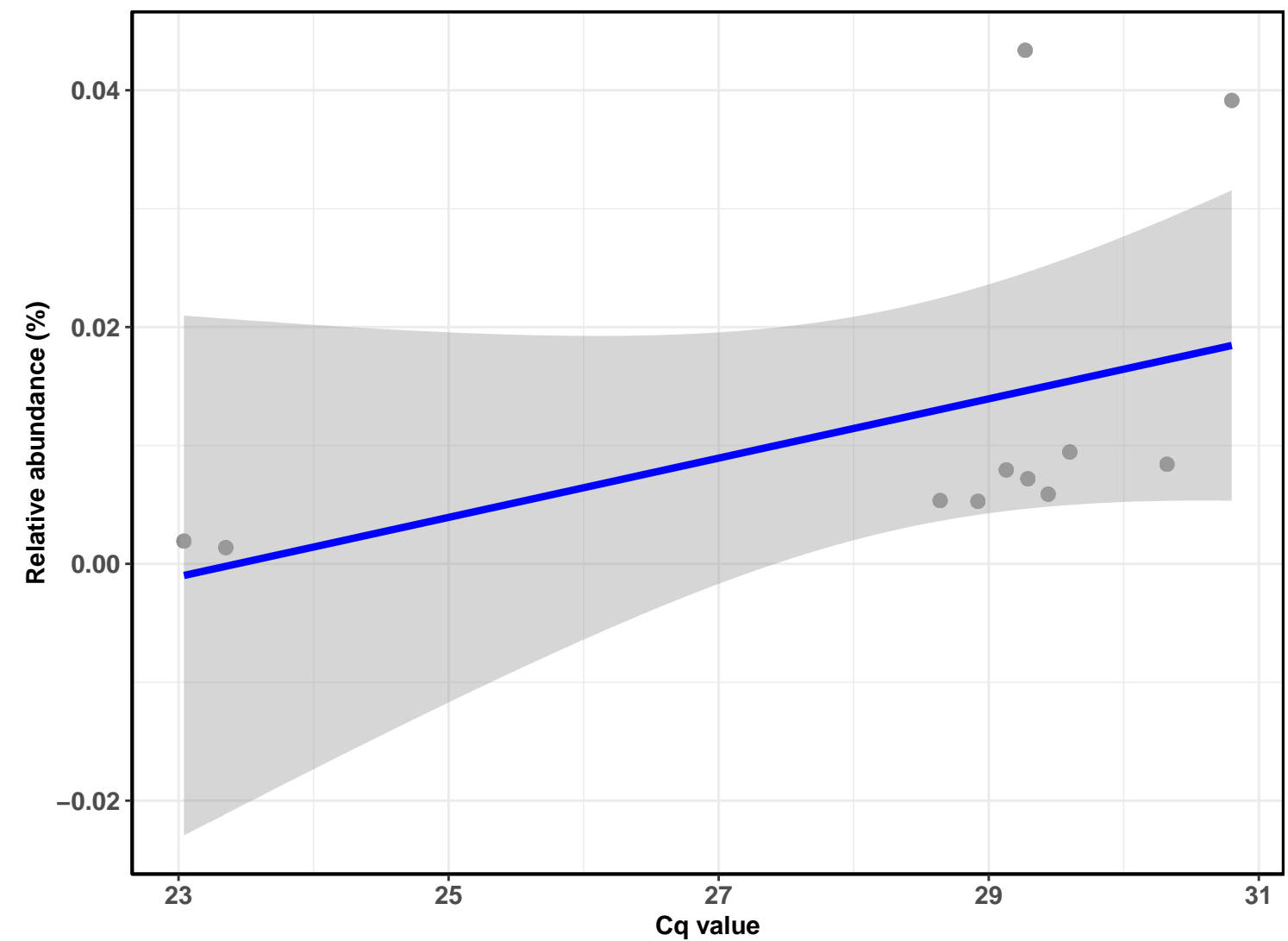
Correlation within the sample type: REF-DIC

$\log_e(S) = 2.773$ ,  $p = 0.266$ ,  $\rho_{\text{Spearman}} = 0.543$ ,  $\text{CI}_{95\%} [-0.480, 0.940]$ ,  $n = 6$

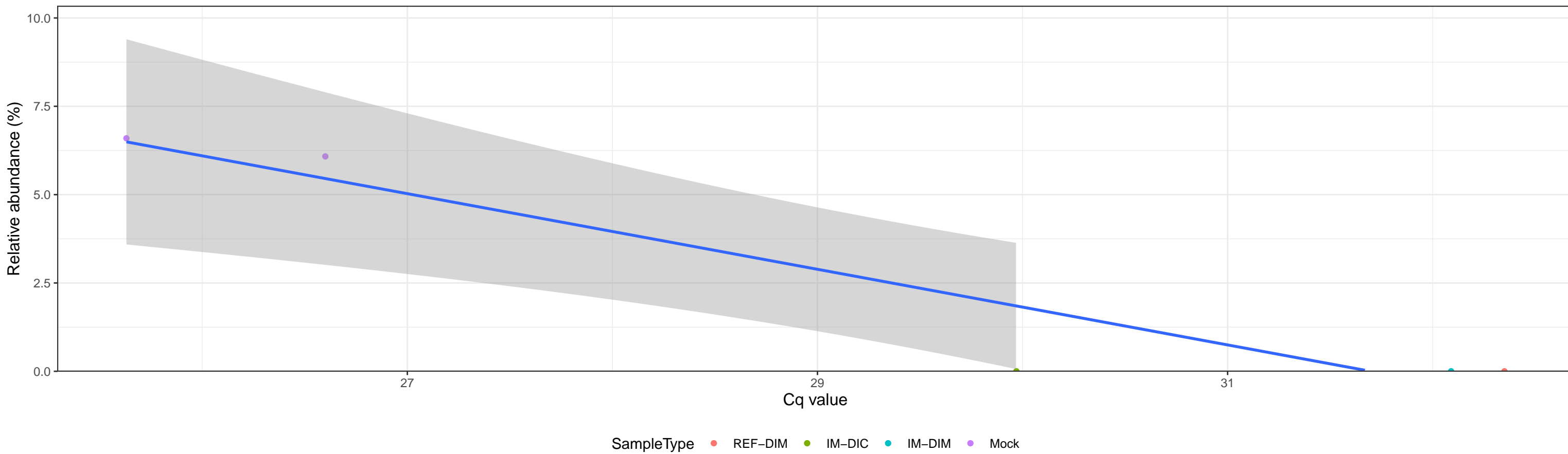


Correlation within the sample type: IM-DIC

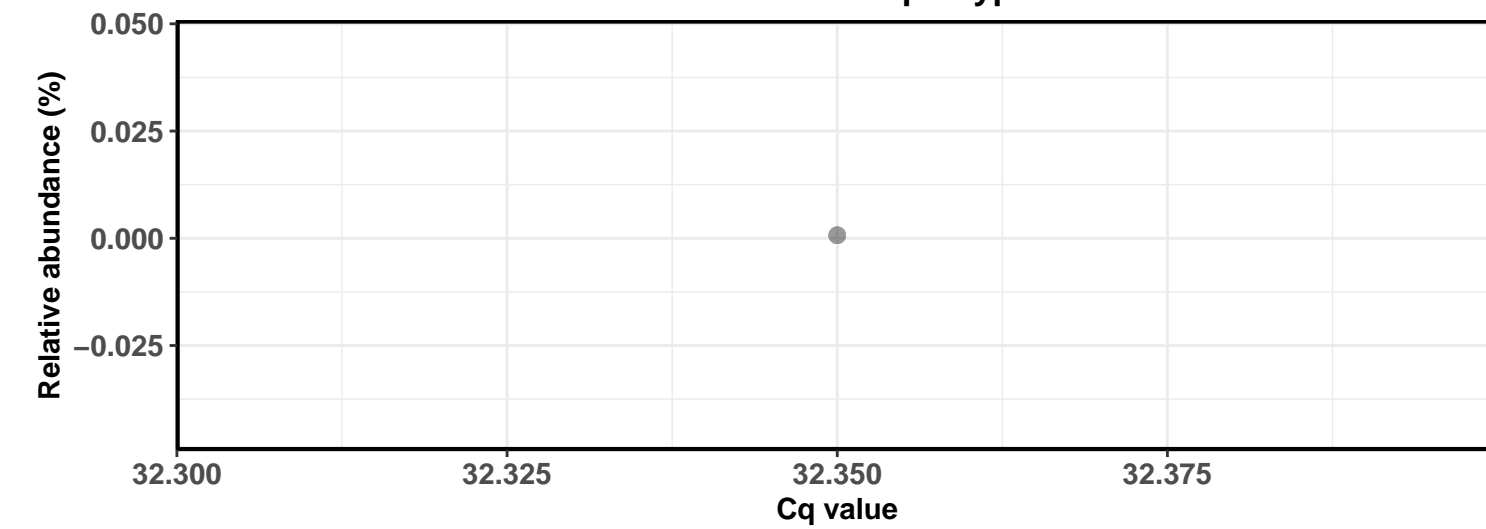
$\log_e(S) = 3.871$ ,  $p = 0.004$ ,  $\rho_{\text{Spearman}} = 0.782$ ,  $\text{CI}_{95\%} [0.343, 0.941]$ ,  $n = 11$



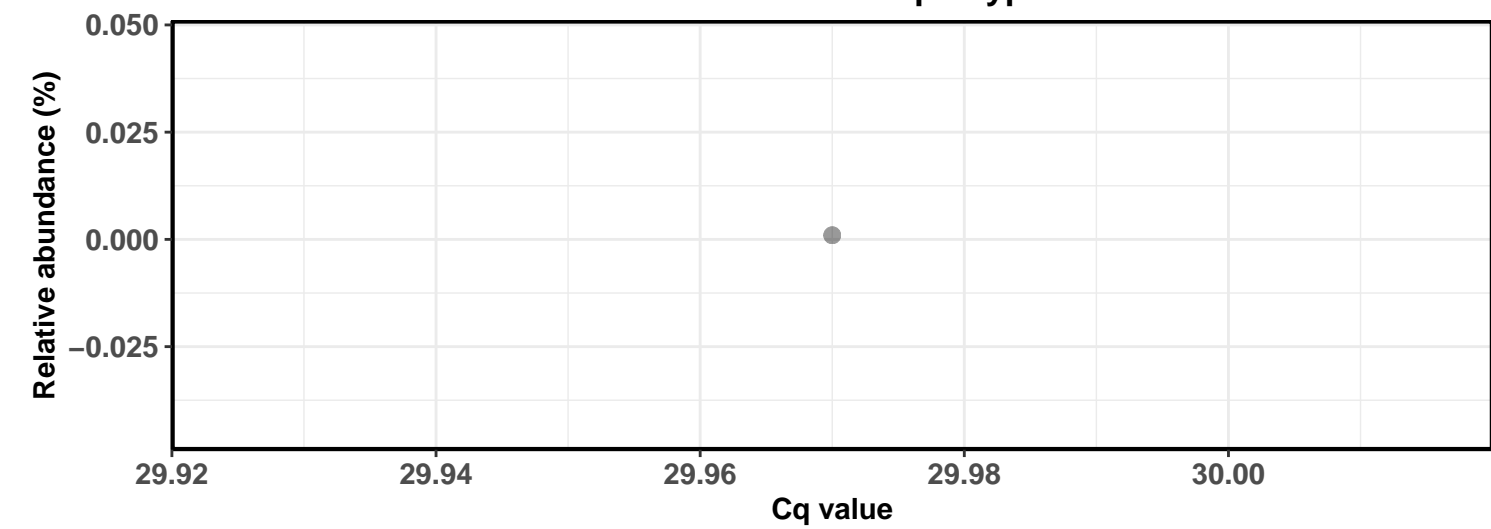
## Correlation with all samples



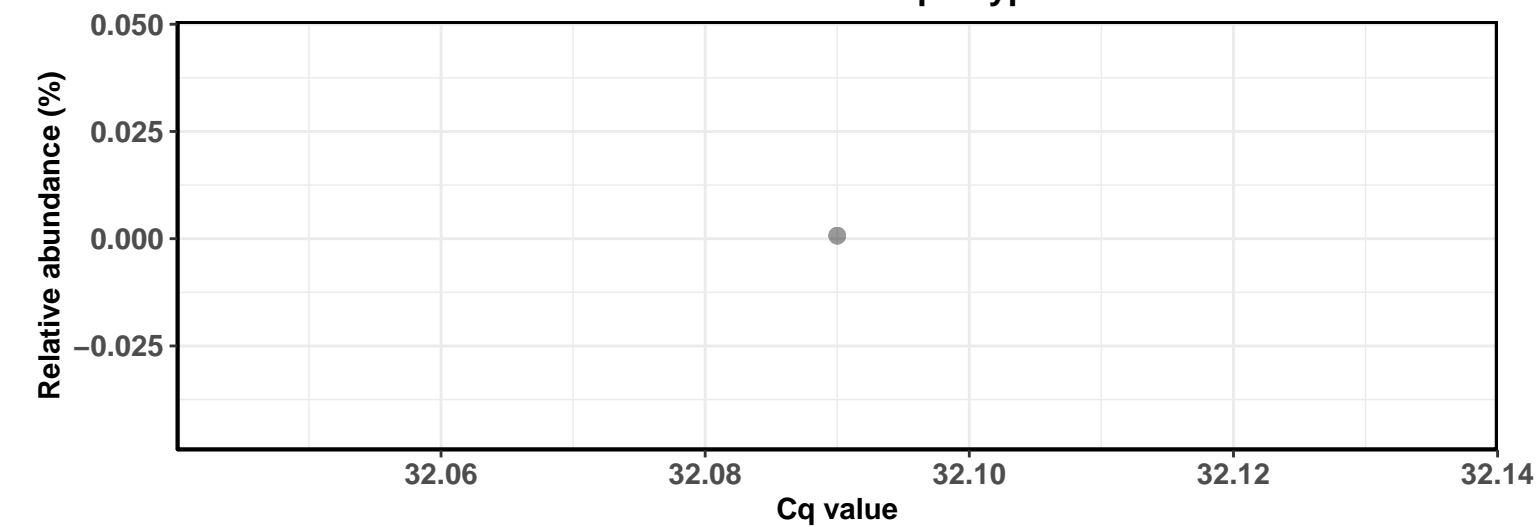
## Correlation within the sample type: REF-DIM



## Correlation within the sample type: IM-DIC

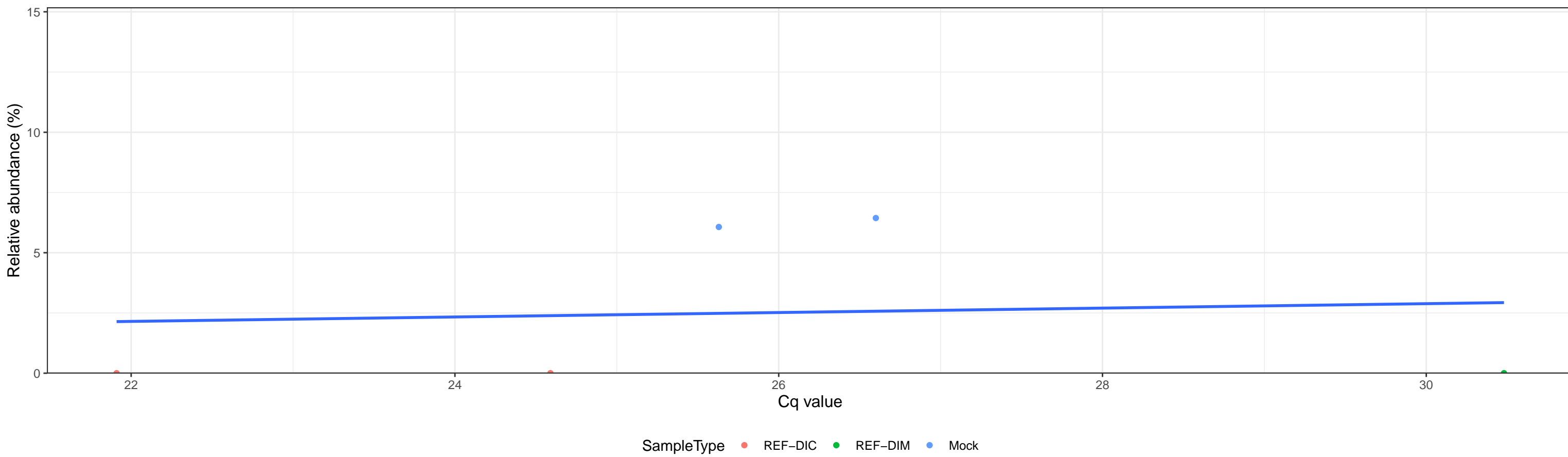


## Correlation within the sample type: IM-DIM

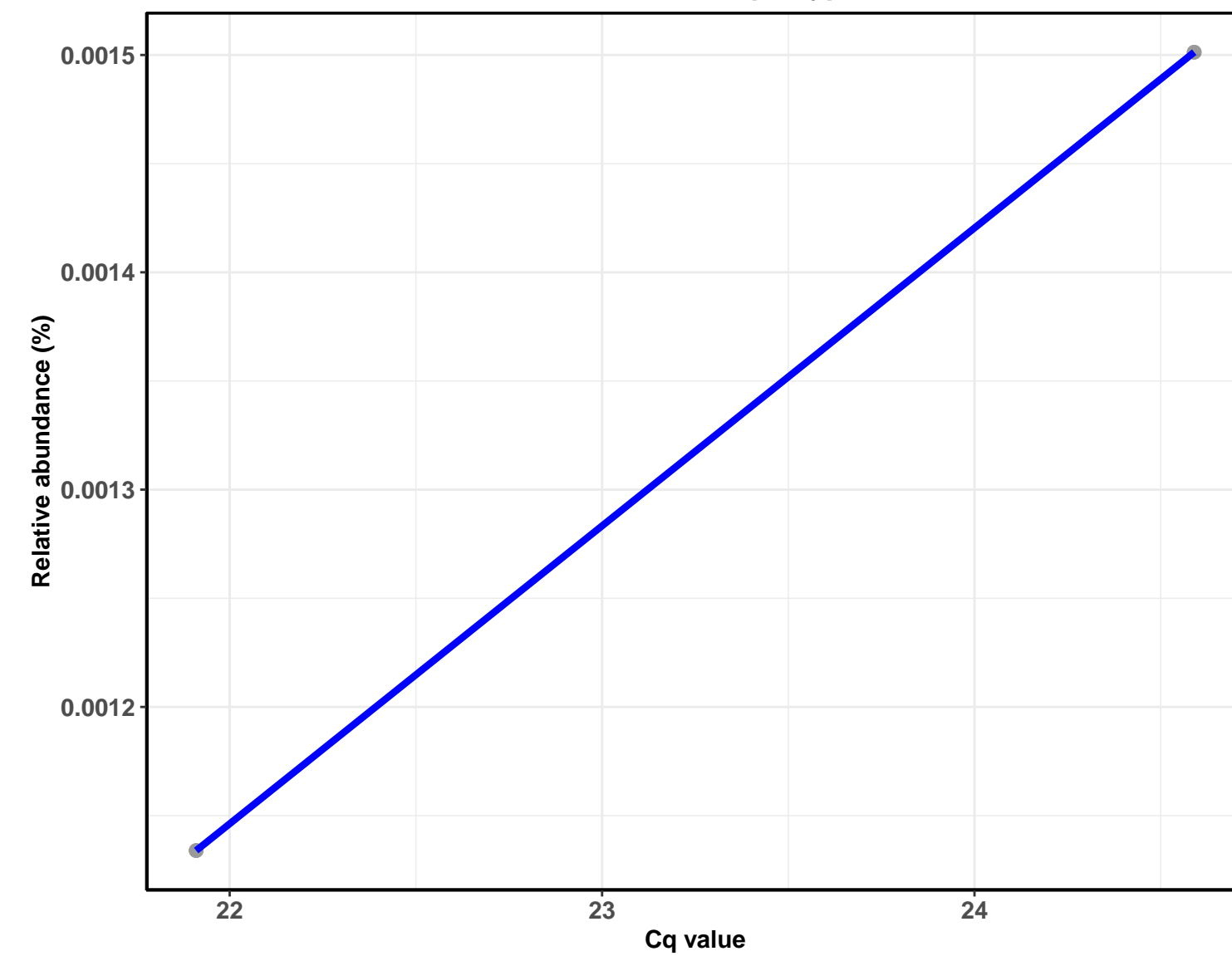


D\_0\_\_Bacteria; D\_1\_\_Firmicutes; D\_2\_\_Bacilli; D\_3\_\_Bacillales; D\_4\_\_Staphylococcaceae; D\_5\_\_Staphylococcus; D\_6\_\_Staphylococcus aureus

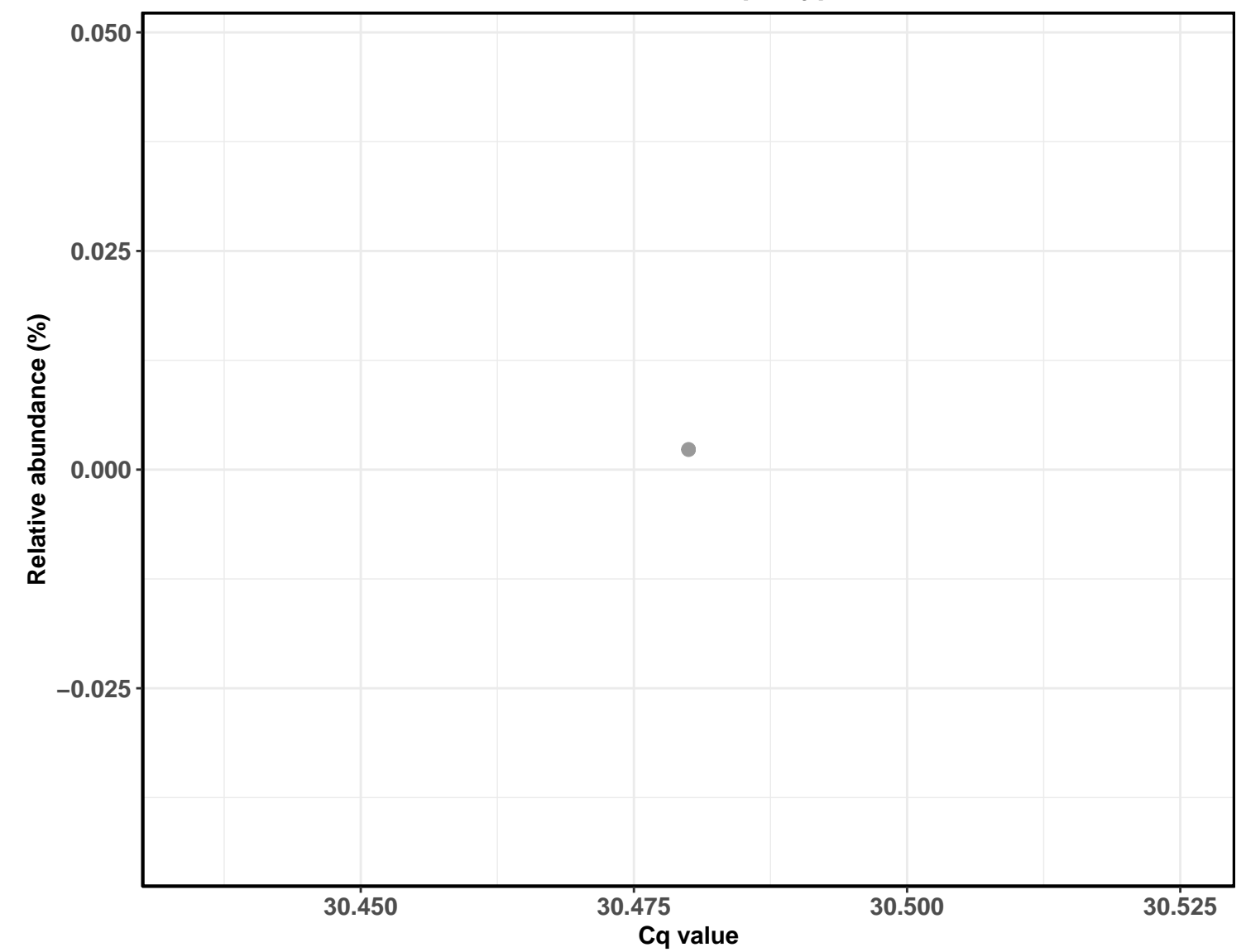
Correlation with all samples



Correlation within the sample type: REF-DIC

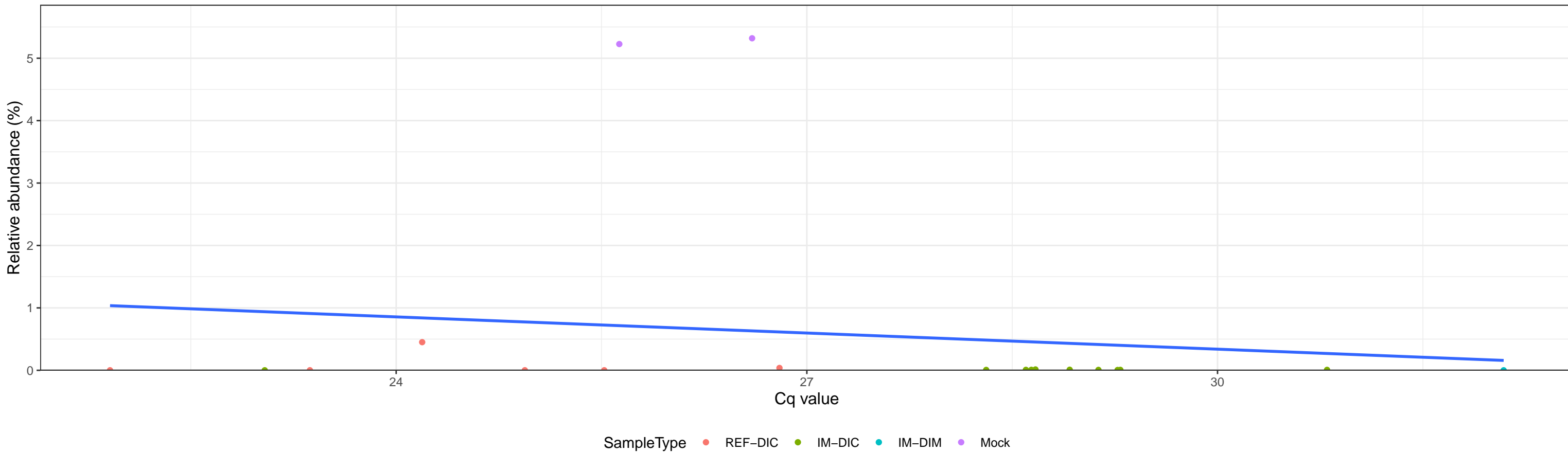


Correlation within the sample type: REF-DIM

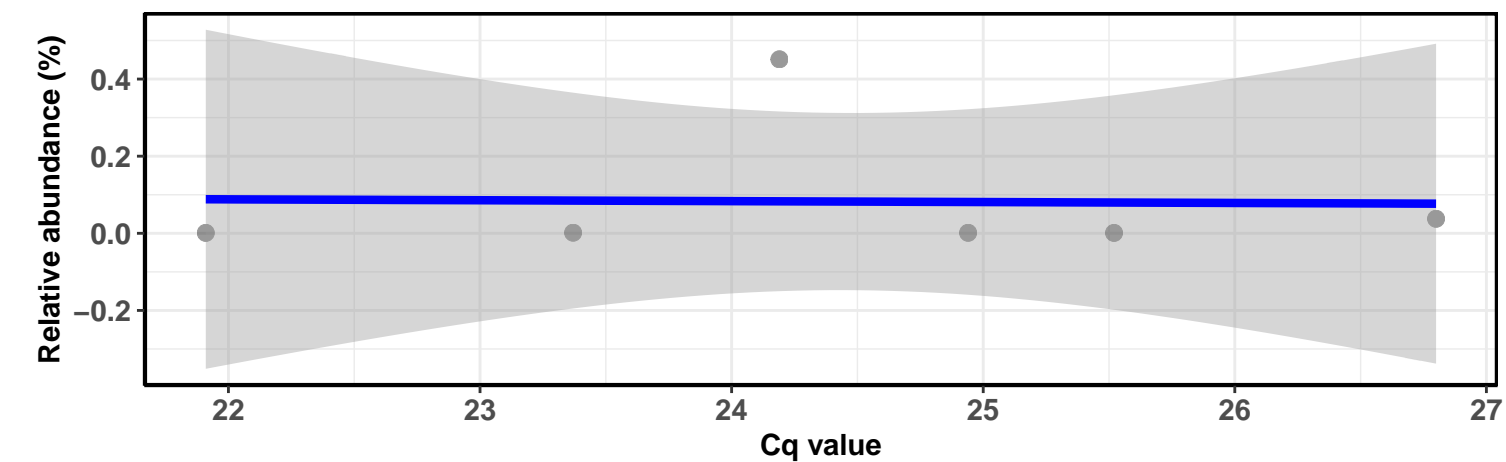


**D\_0\_\_Bacteria; D\_1\_\_Firmicutes; D\_2\_\_Bacilli; D\_3\_\_Lactobacillales; D\_4\_\_Lactobacillaceae; D\_5\_\_Lactobacillus; D\_6\_\_Lactobacillus fermentum**

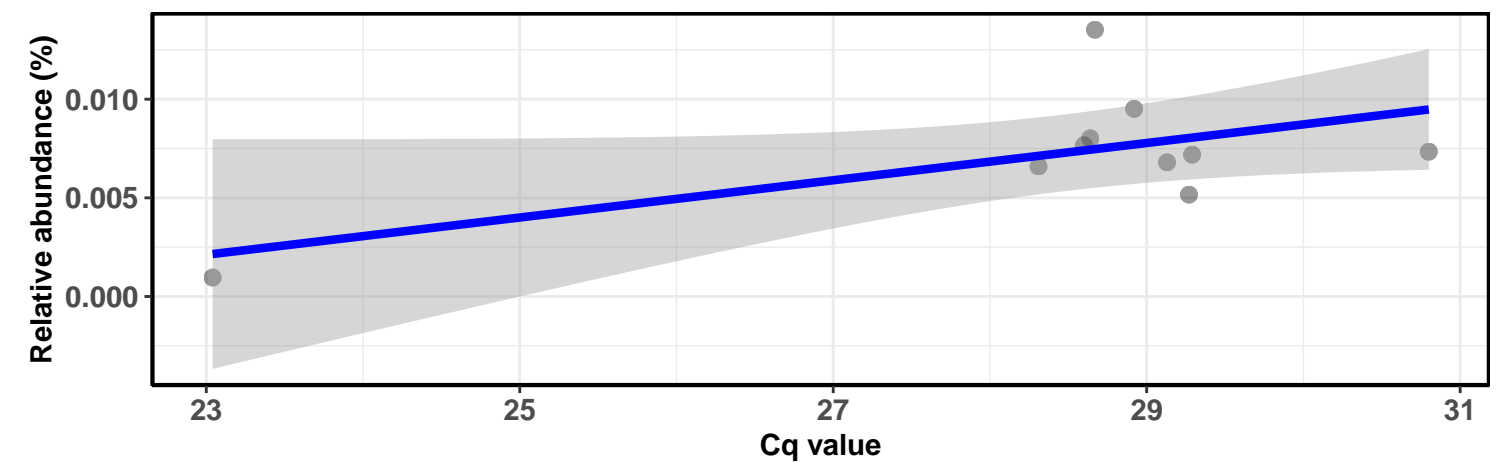
## Correlation with all samples



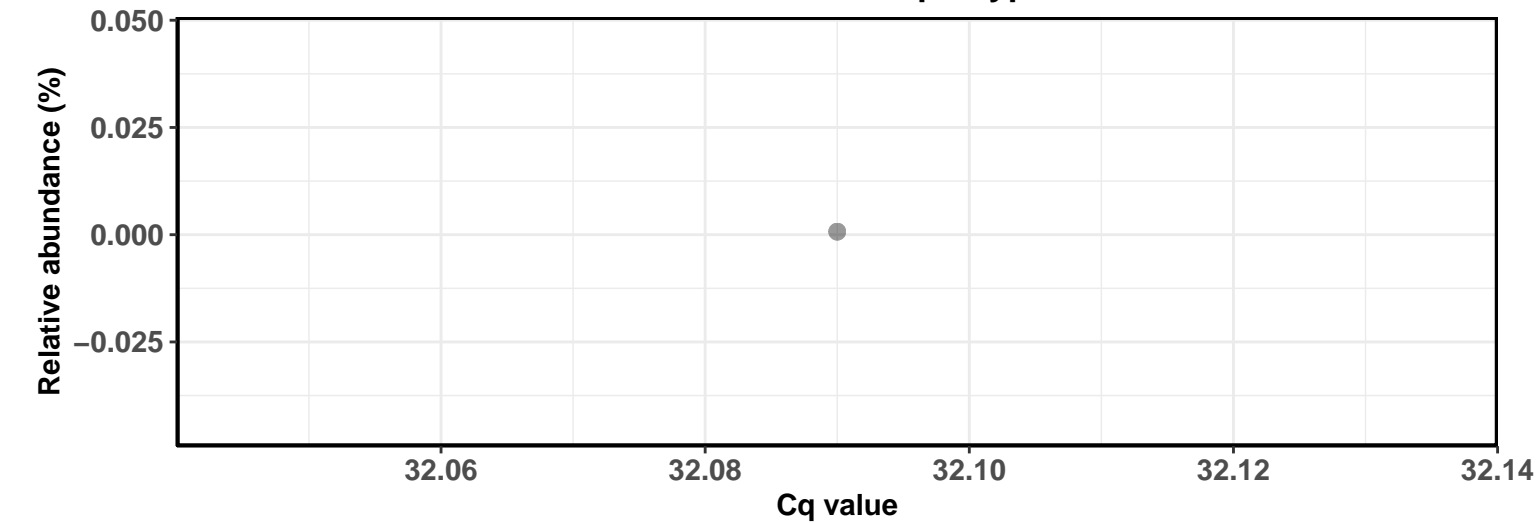
### Correlation within the sample type: REF–DIC

$$\log_e(S) = 3.466, p = 0.872, \rho_{\text{Spearman}} = 0.086, \text{CI}_{95\%} [-0.780, 0.839], n = 6$$


### Correlation within the sample type: IM-DIC

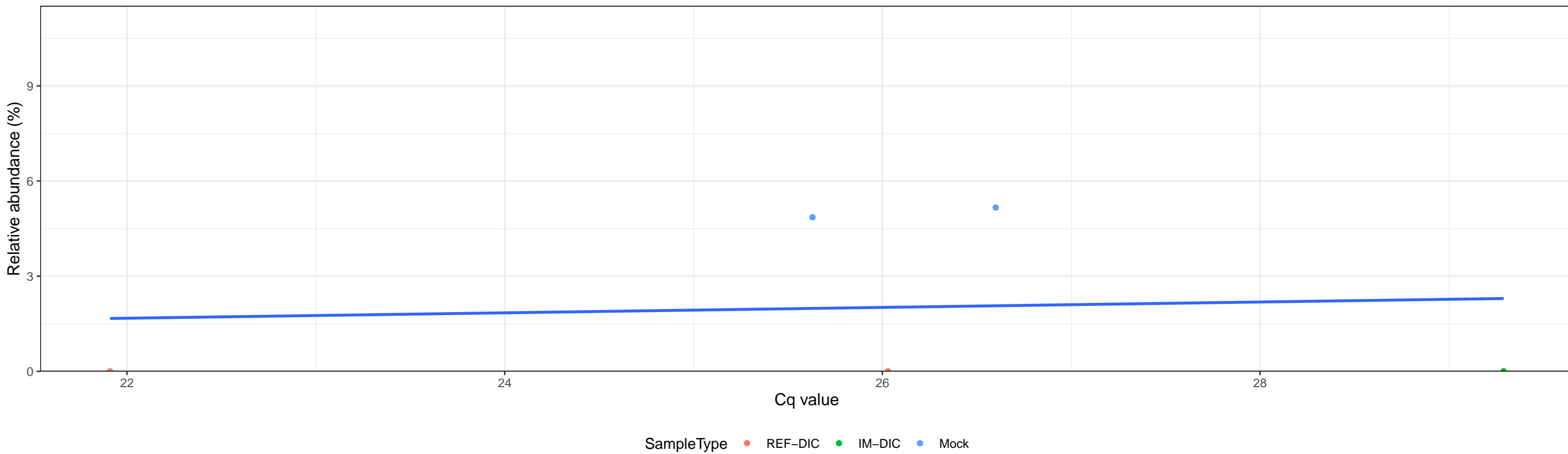
$$\log_e(S) = 4.970, p = 0.726, \rho_{\text{Spearman}} = 0.127, \text{CI}_{95\%} [-0.546, 0.701], n = 10$$


### Correlation within the sample type: IM-DIM

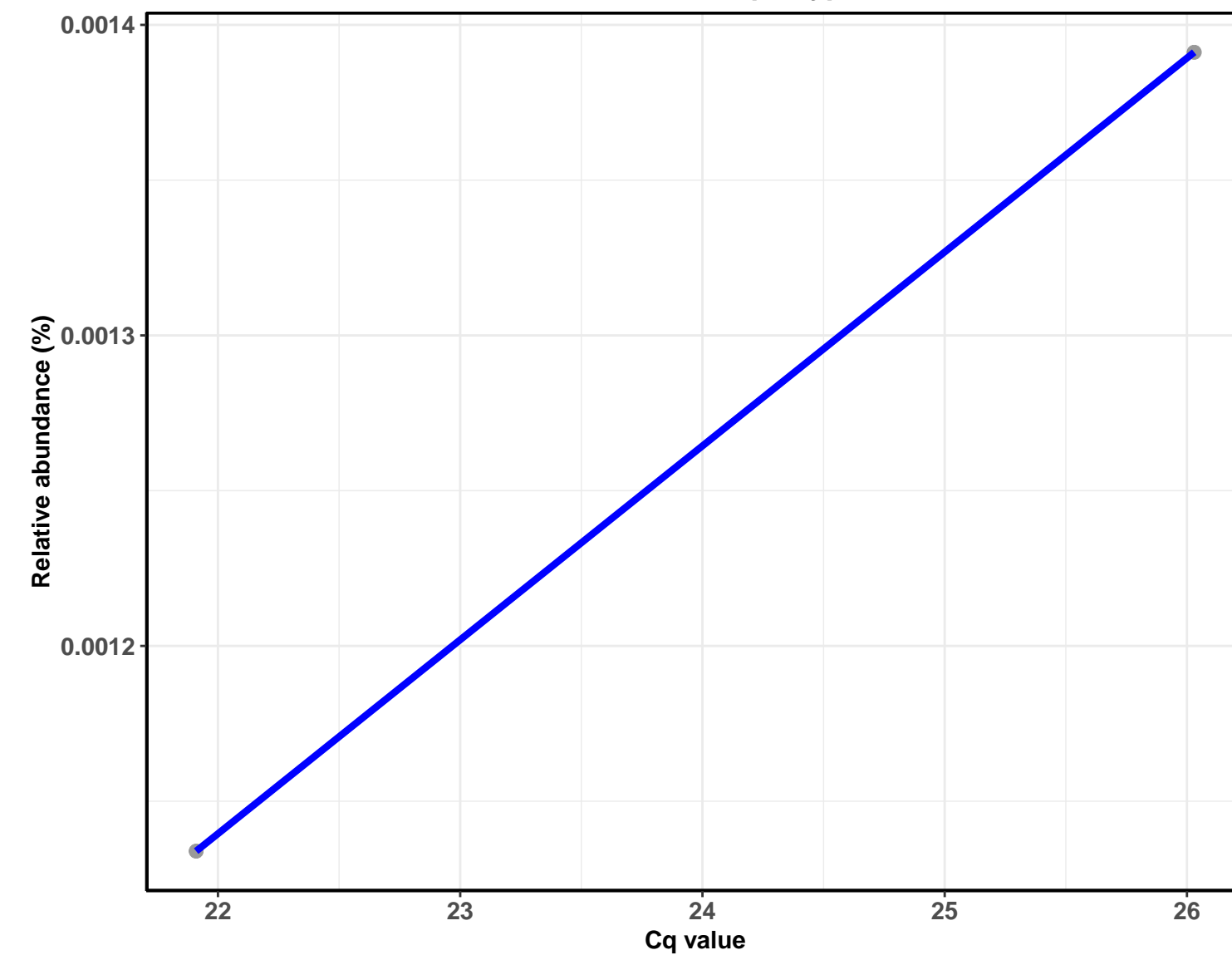


D\_0\_\_Bacteria; D\_1\_\_Firmicutes; D\_2\_\_Bacilli; D\_3\_\_Lactobacillales; D\_4\_\_Lactobacillaceae; D\_5\_\_Lactobacillus; D\_6\_\_Lactobacillus fermentum

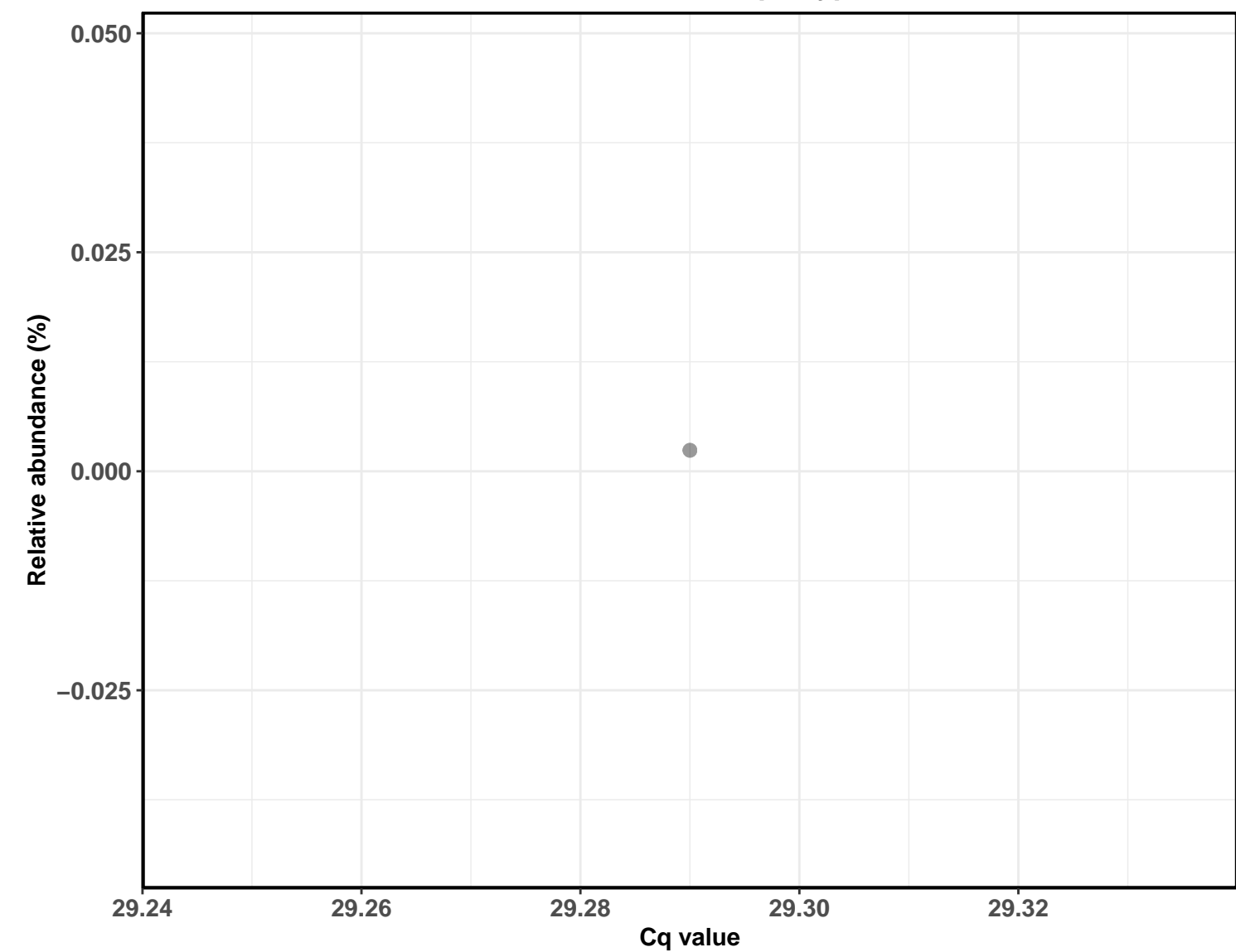
Correlation with all samples



Correlation within the sample type: REF-DIC

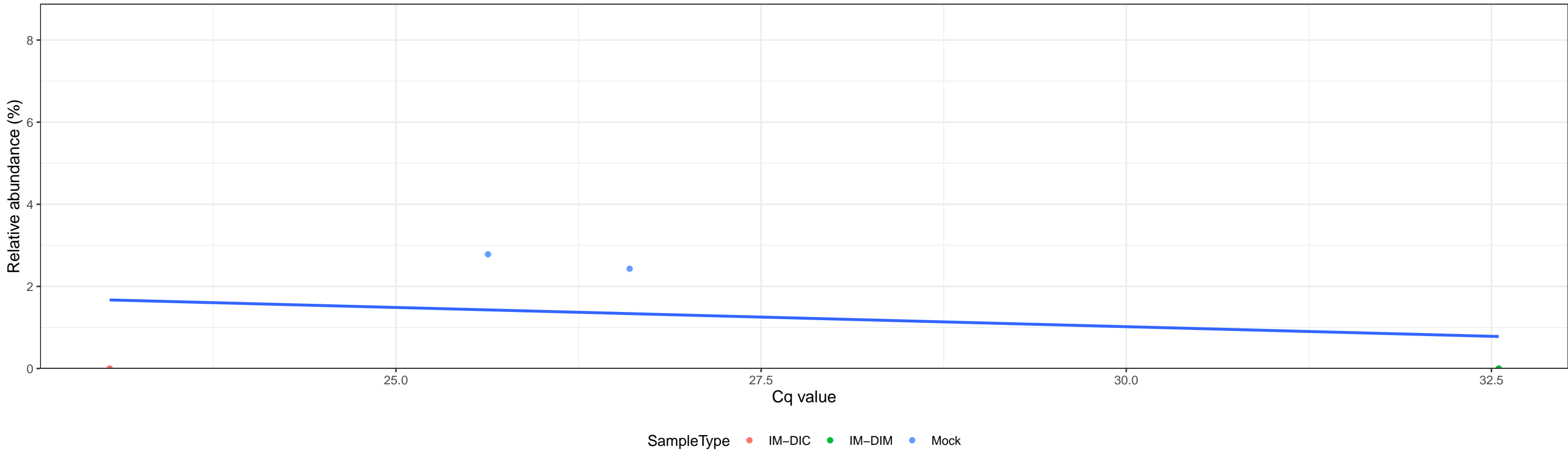


Correlation within the sample type: IM-DIC

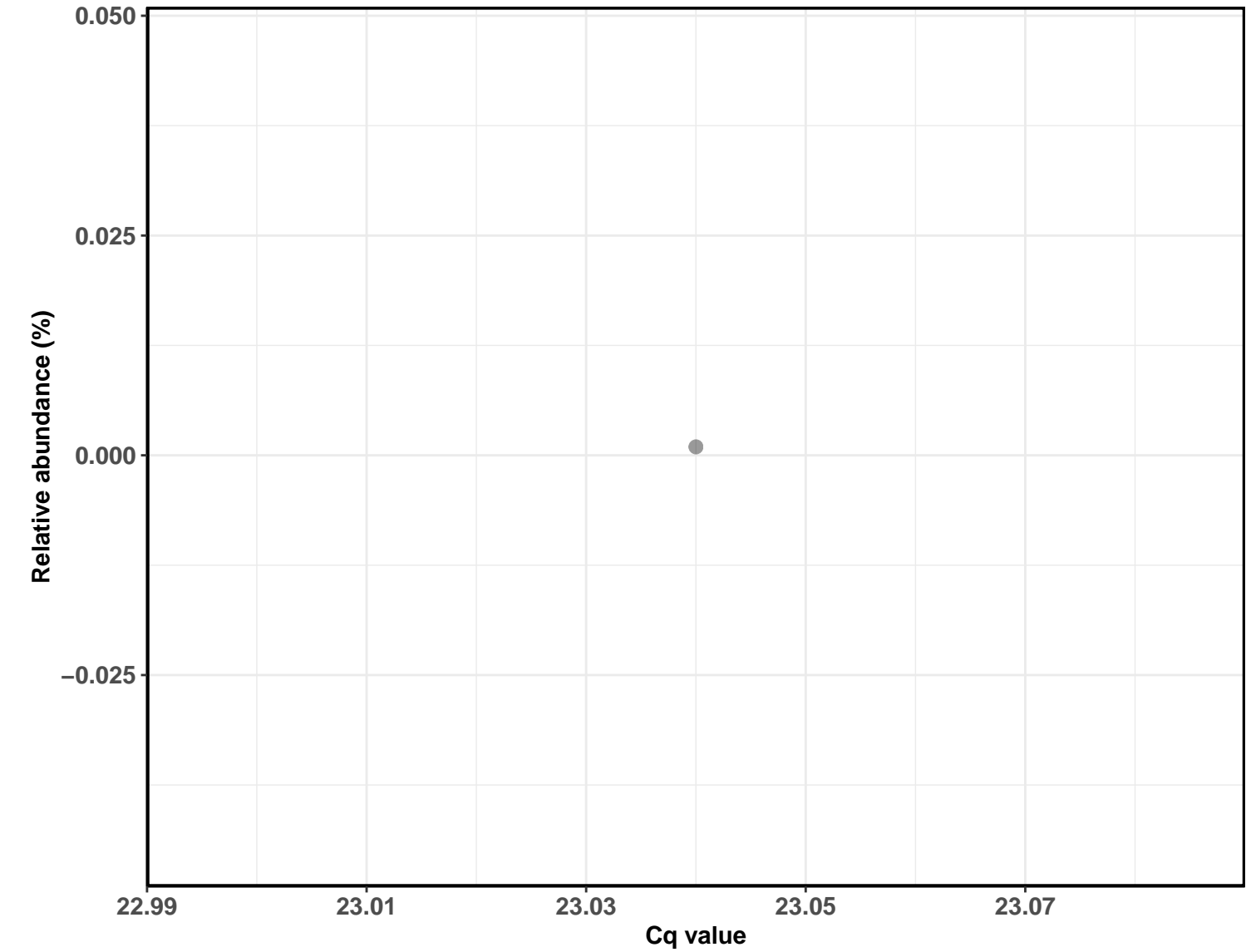


D\_0\_\_Bacteria; D\_1\_\_Proteobacteria; D\_2\_\_Gammaproteobacteria; D\_3\_\_Enterobacteriales; D\_4\_\_Enterobacteriaceae; D\_5\_\_Salmonella

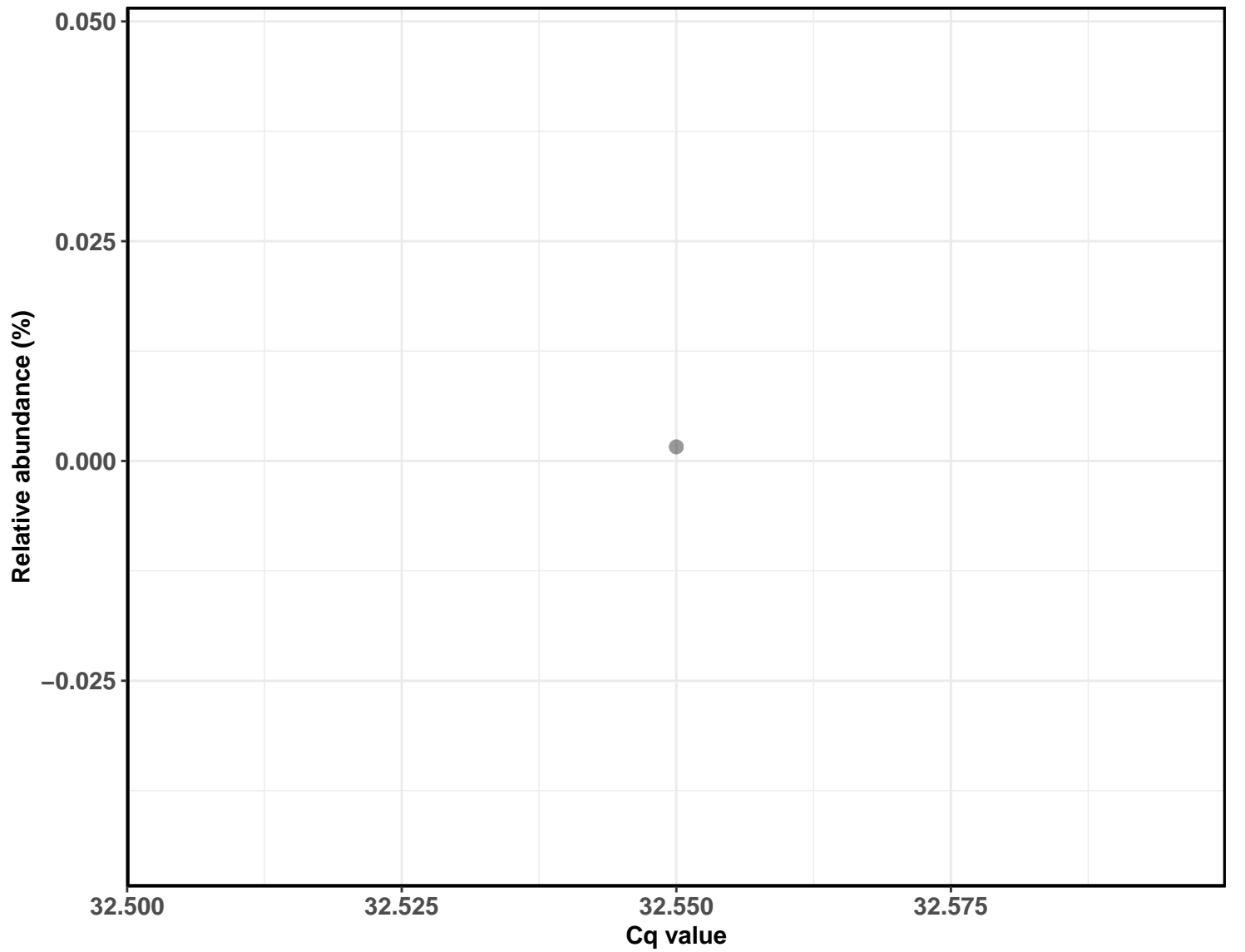
Correlation with all samples



Correlation within the sample type: IM-DIC

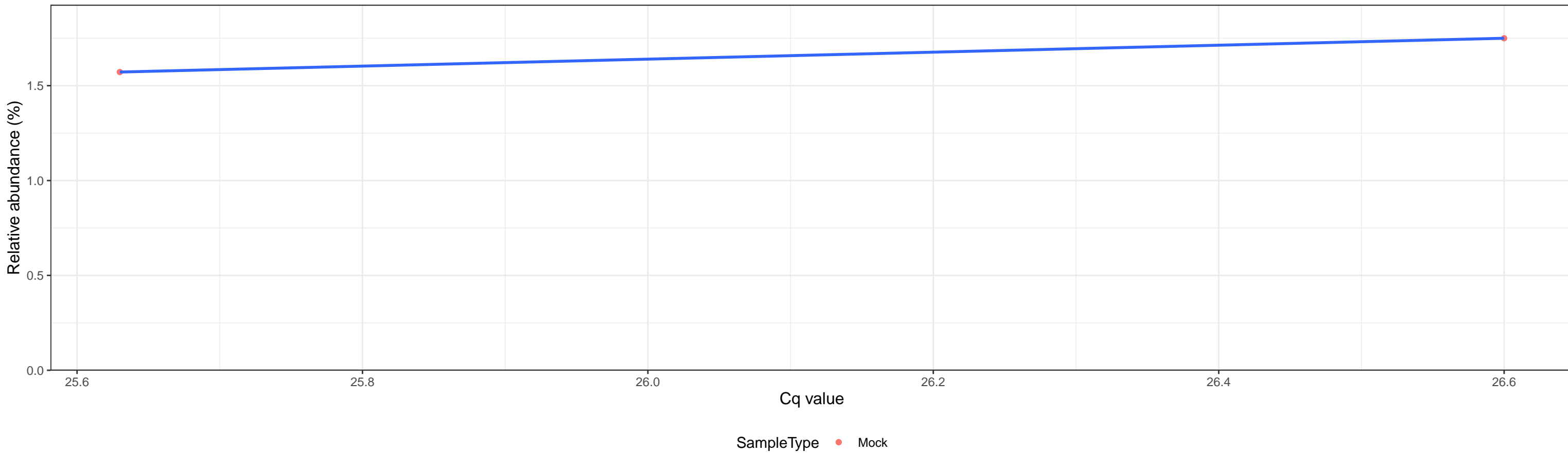


Correlation within the sample type: IM-DIM

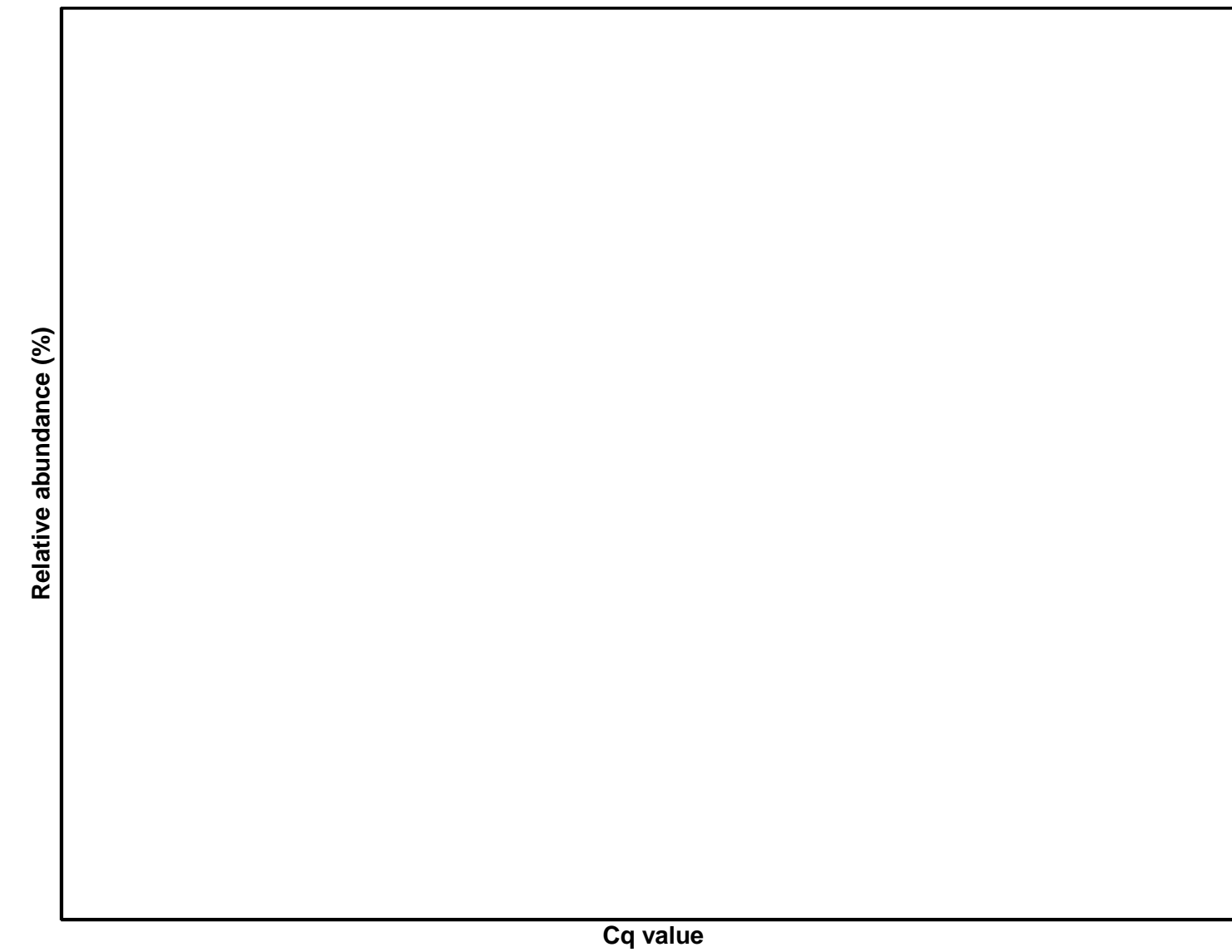


D\_0\_\_Bacteria; D\_1\_\_Firmicutes; D\_2\_\_Bacilli; D\_3\_\_Bacillales; D\_4\_\_Staphylococcaceae; D\_5\_\_Staphylococcus; D\_6\_\_Staphylococcus aureus

Correlation with all samples

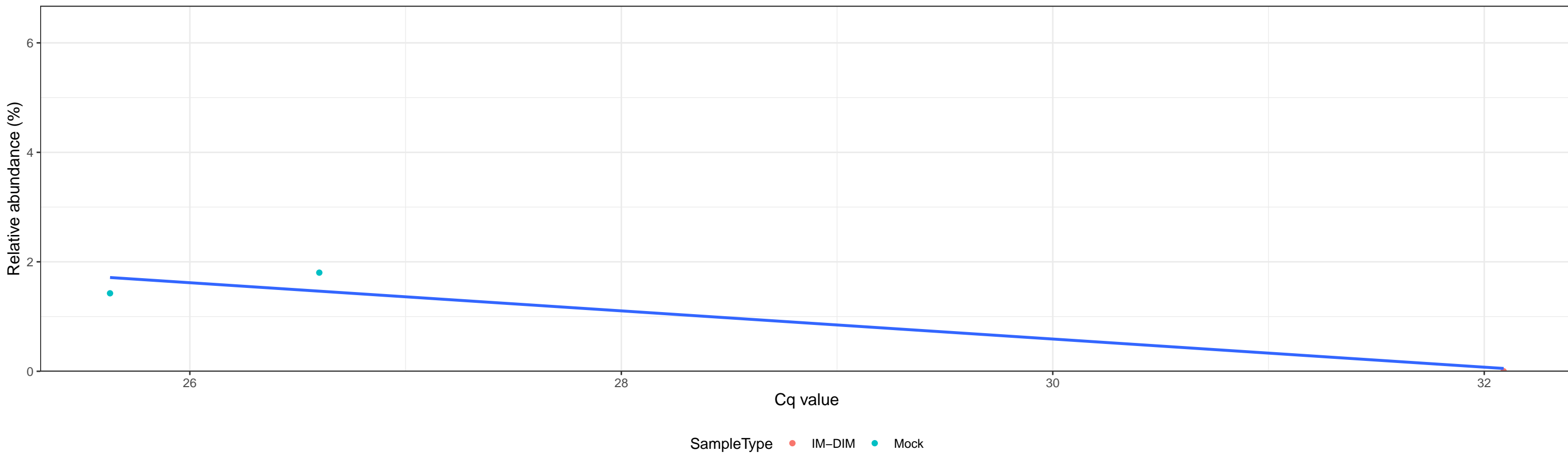


Correlation within the sample type:

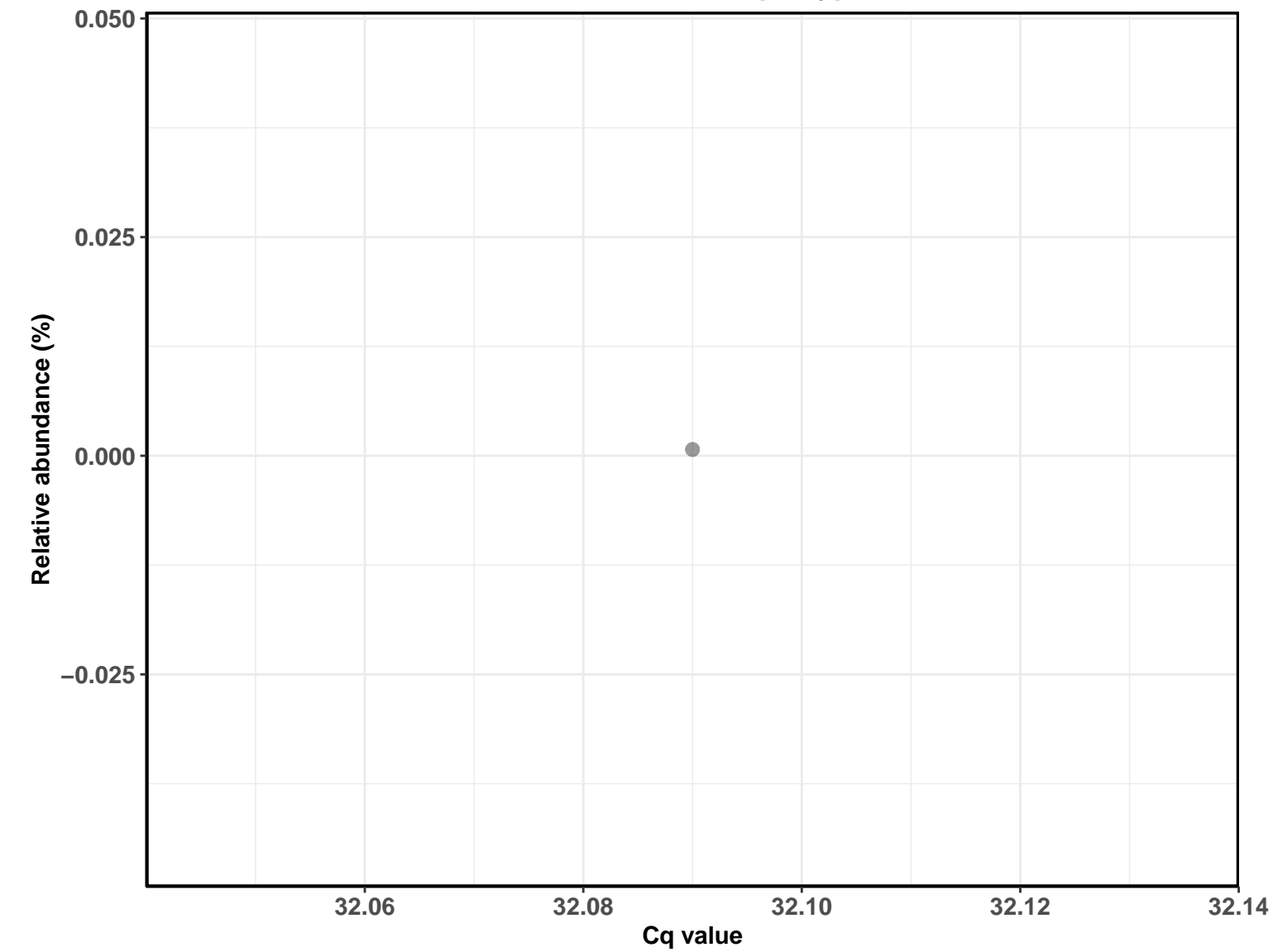


D\_0\_\_Bacteria; D\_1\_\_Firmicutes; D\_2\_\_Bacilli; D\_3\_\_Bacillales; D\_4\_\_Staphylococcaceae; D\_5\_\_Staphylococcus; D\_6\_\_Staphylococcus aureus

Correlation with all samples

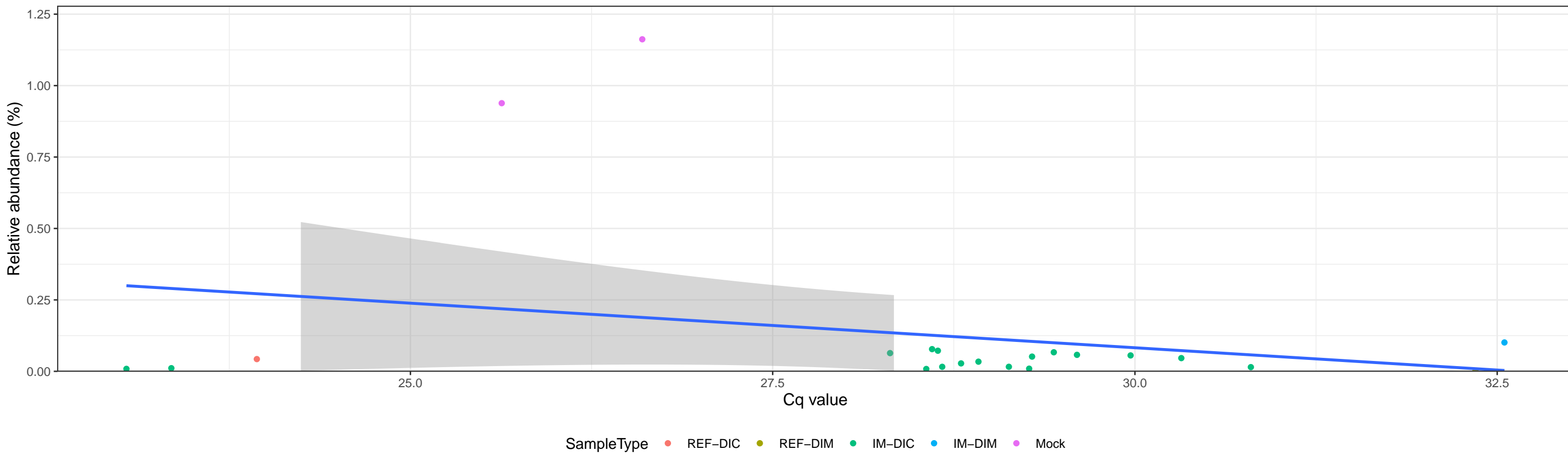


Correlation within the sample type: IM-DIM

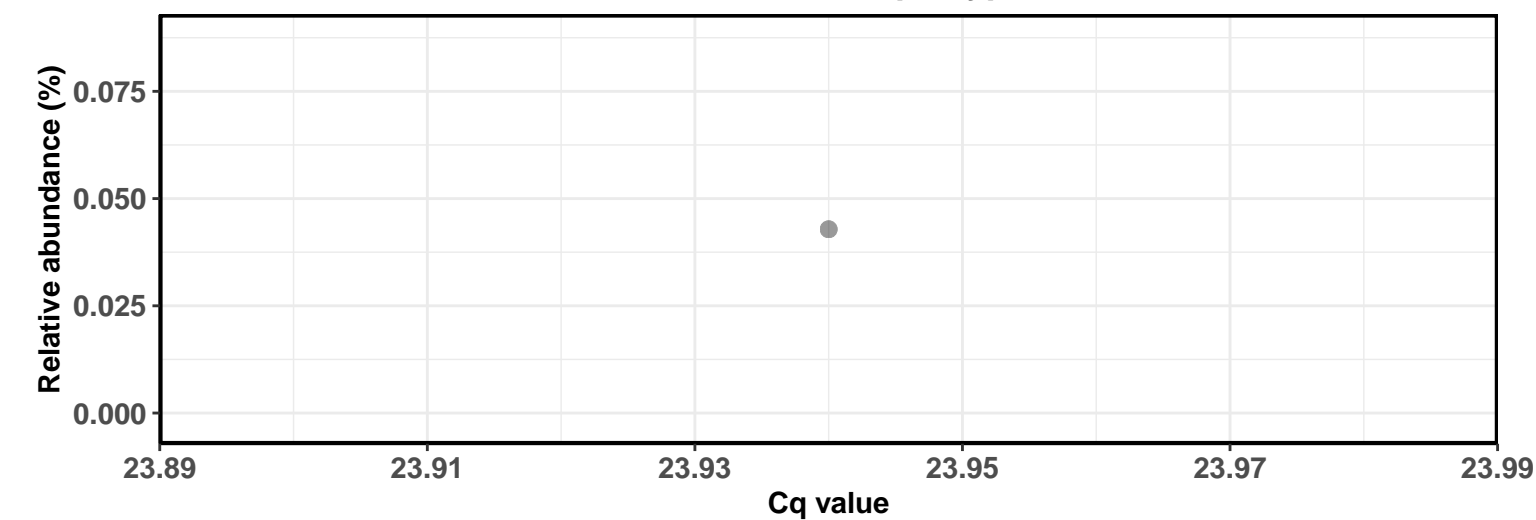




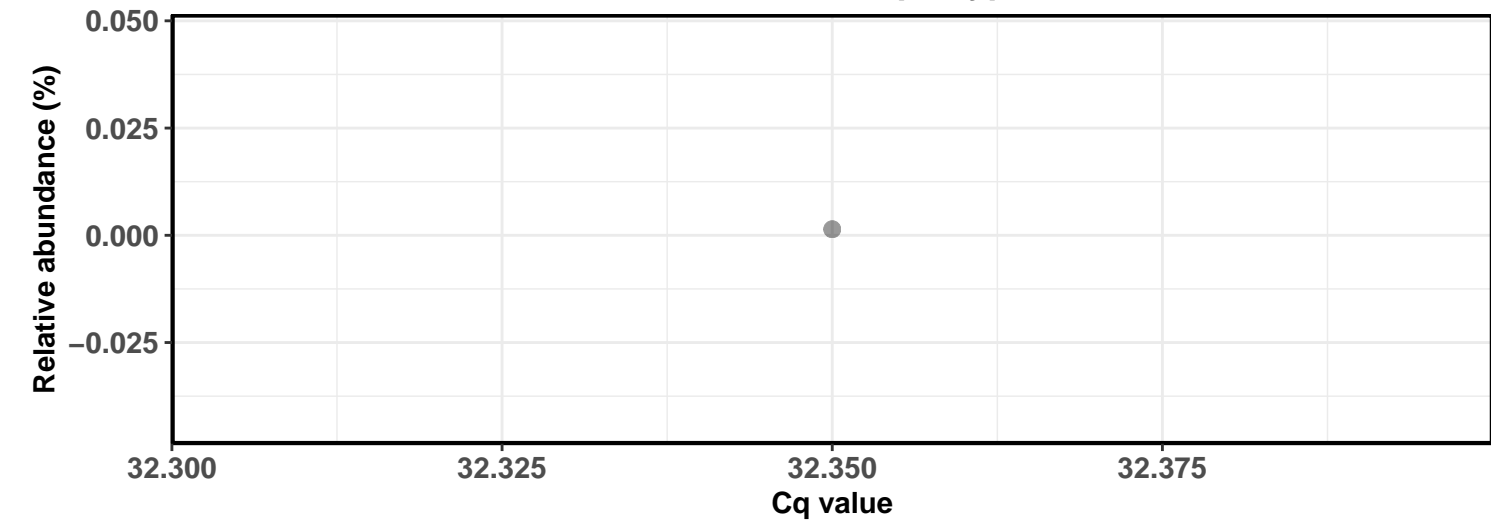
Correlation with all samples



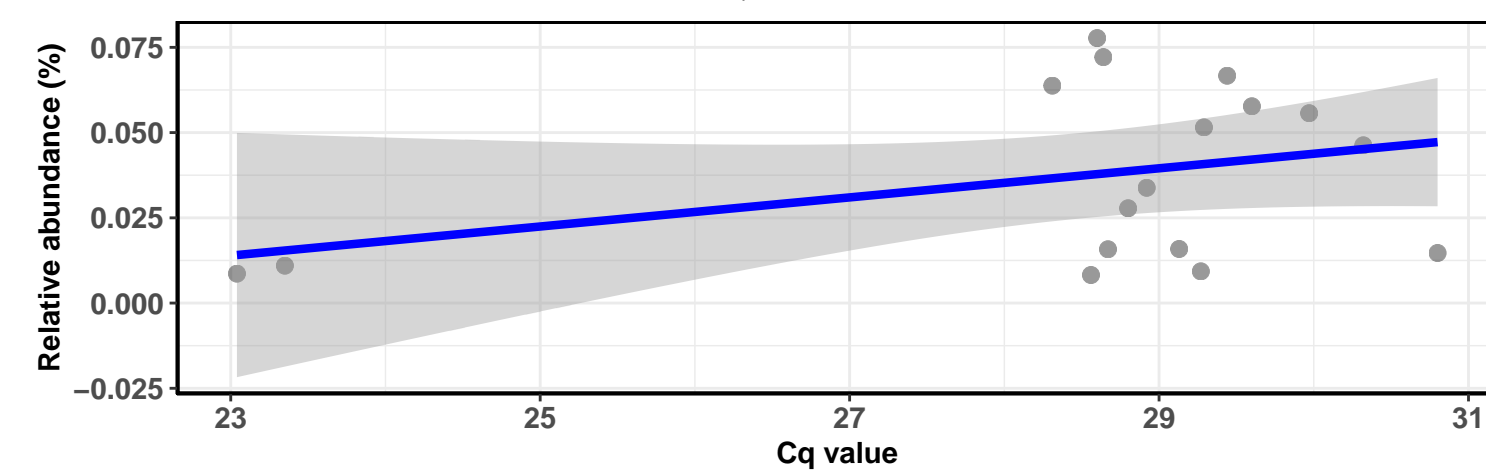
Correlation within the sample type: REF-DIC



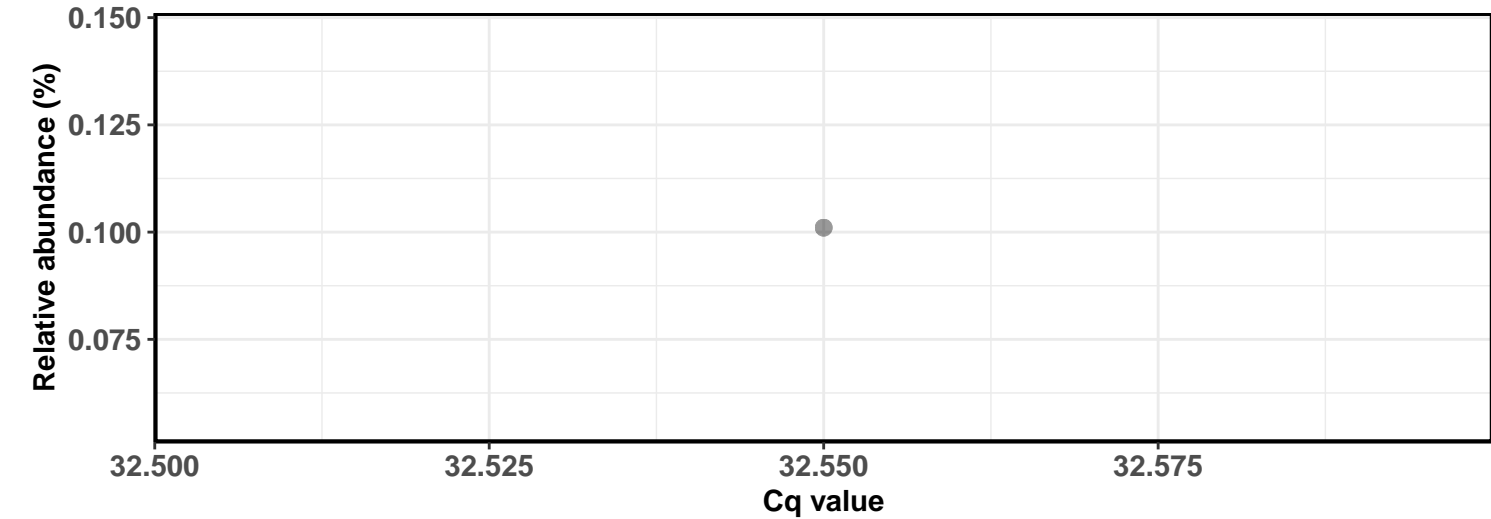
Correlation within the sample type: REF-DIM



Correlation within the sample type: IM-DIC

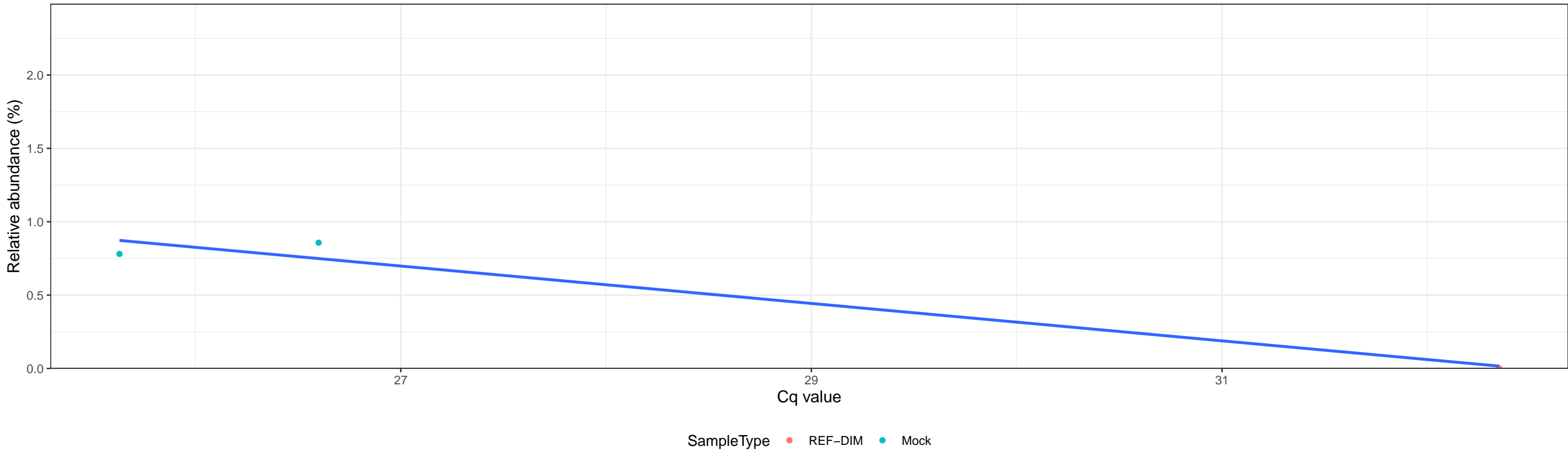
 $\log_e(S) = 6.474$ ,  $p = 0.428$ ,  $\rho_{\text{Spearman}} = 0.206$ ,  $CI_{95\%} [-0.305, 0.625]$ ,  $n = 17$ 

Correlation within the sample type: IM-DIM

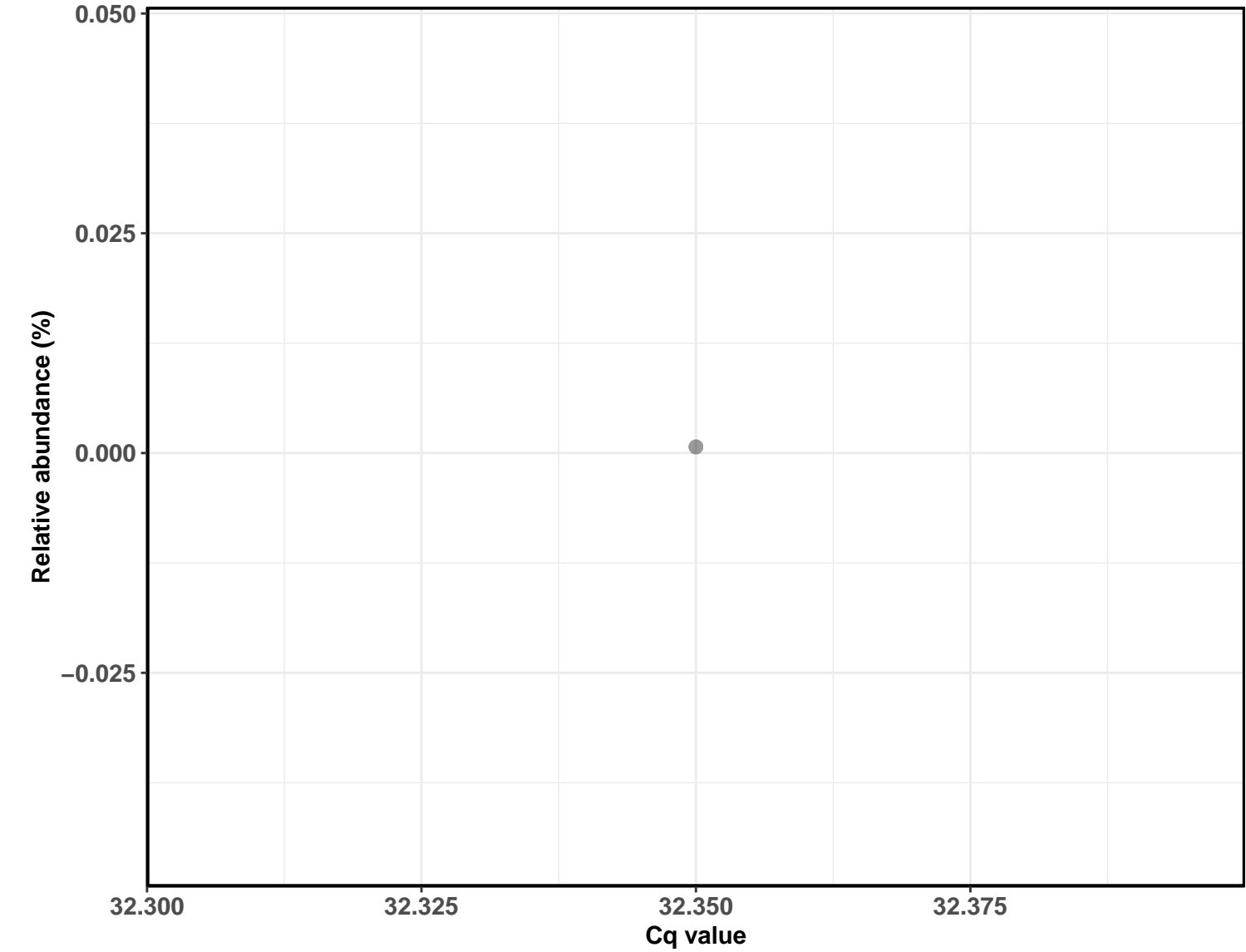


D\_0\_\_Bacteria; D\_1\_\_Firmicutes; D\_2\_\_Bacilli; D\_3\_\_Bacillales; D\_4\_\_Listeriaceae; D\_5\_\_Listeria; D\_6\_\_Listeria monocytogenes

Correlation with all samples

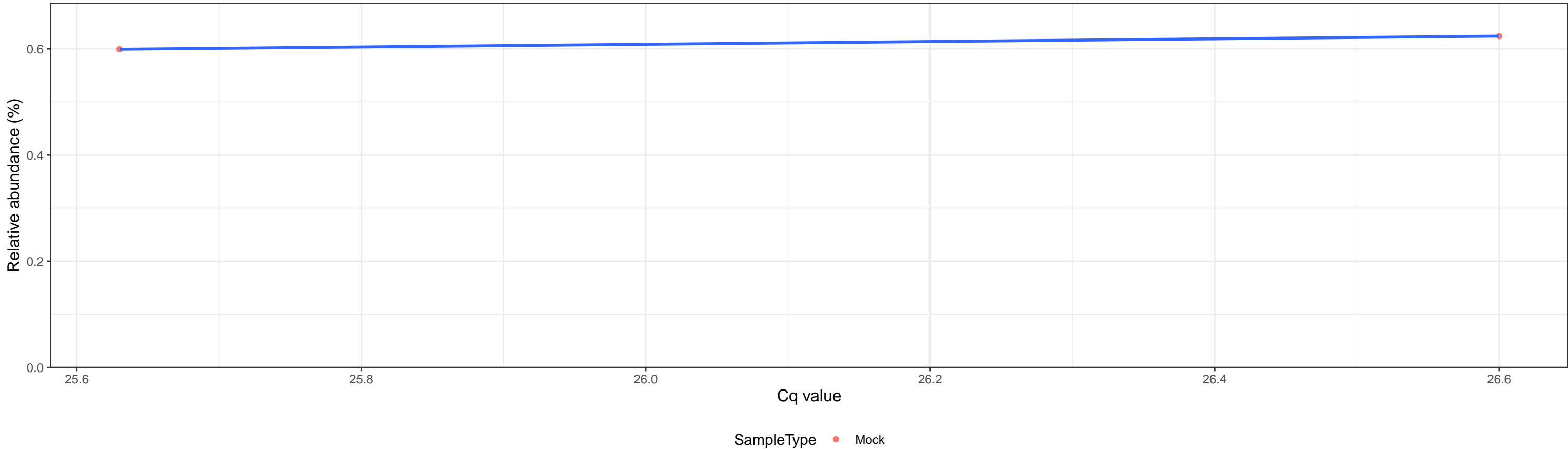


Correlation within the sample type: REF-DIM

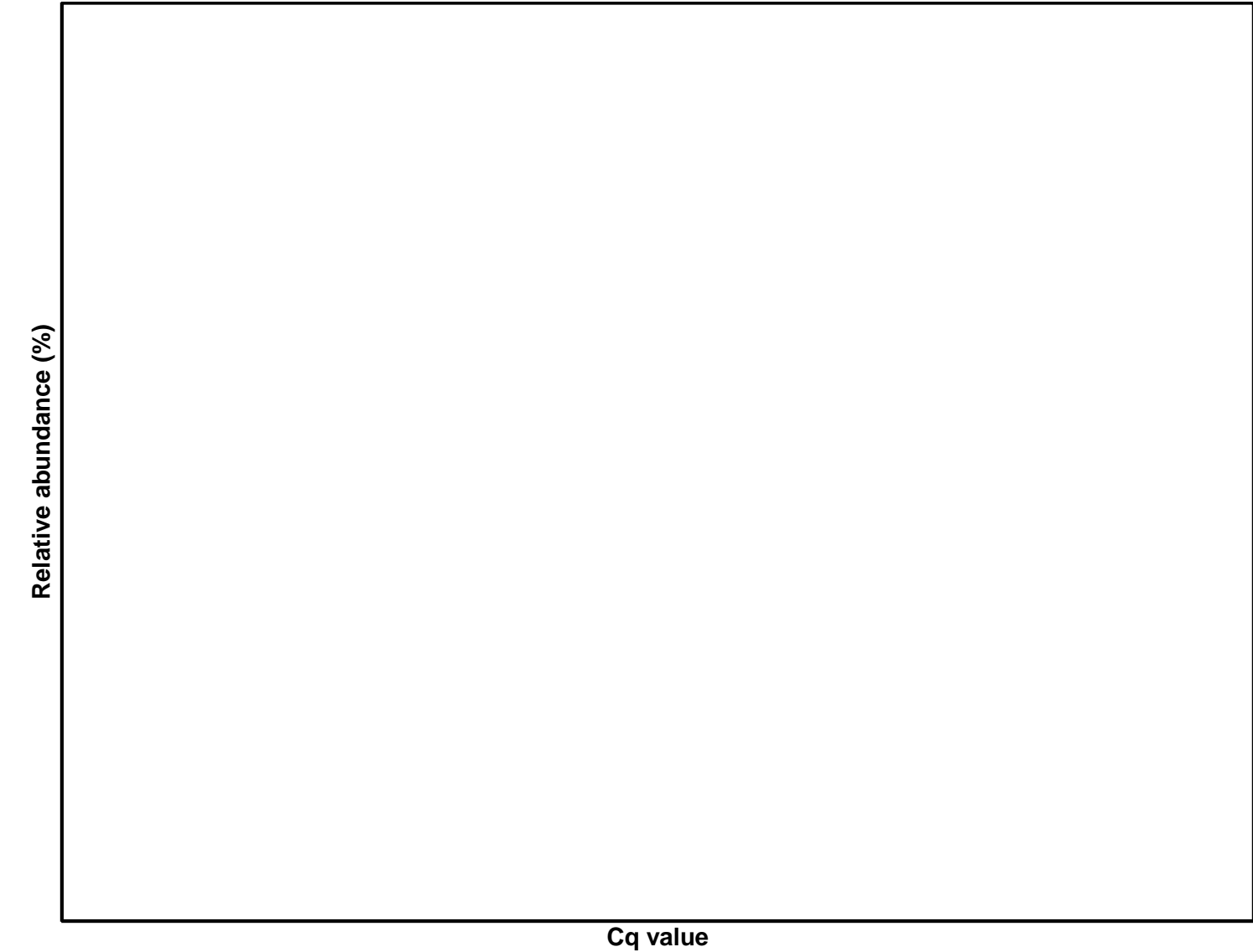


D\_0\_\_Bacteria; D\_1\_\_Firmicutes; D\_2\_\_Bacilli; D\_3\_\_Lactobacillales; D\_4\_\_Enterococcaceae; D\_5\_\_Enterococcus; D\_6\_\_Enterococcus faecalis

Correlation with all samples

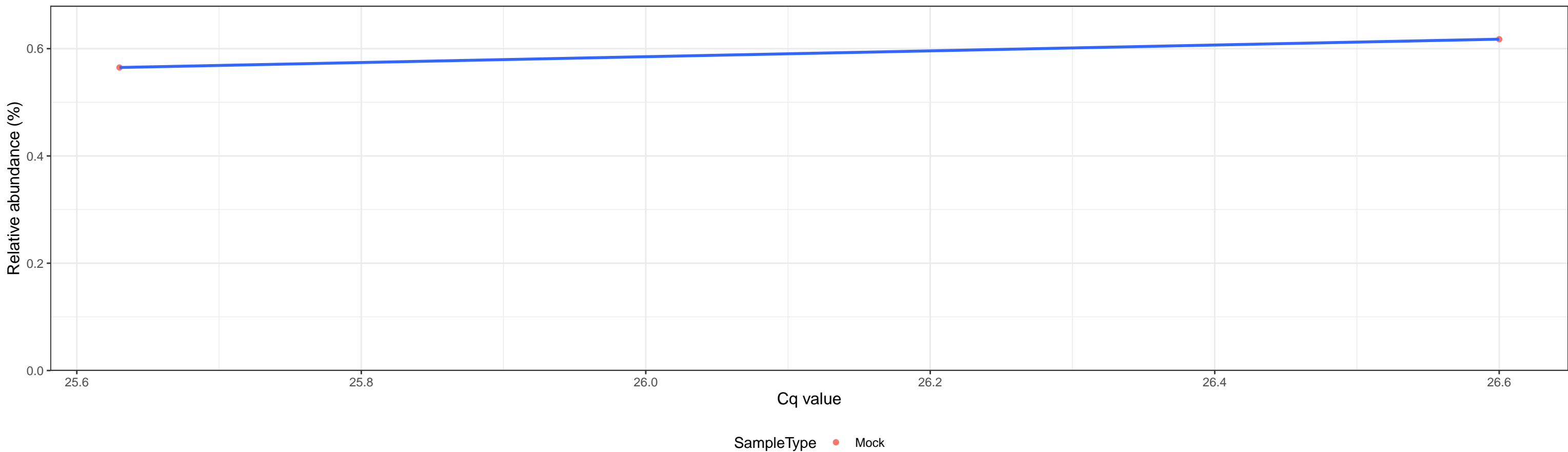


Correlation within the sample type:

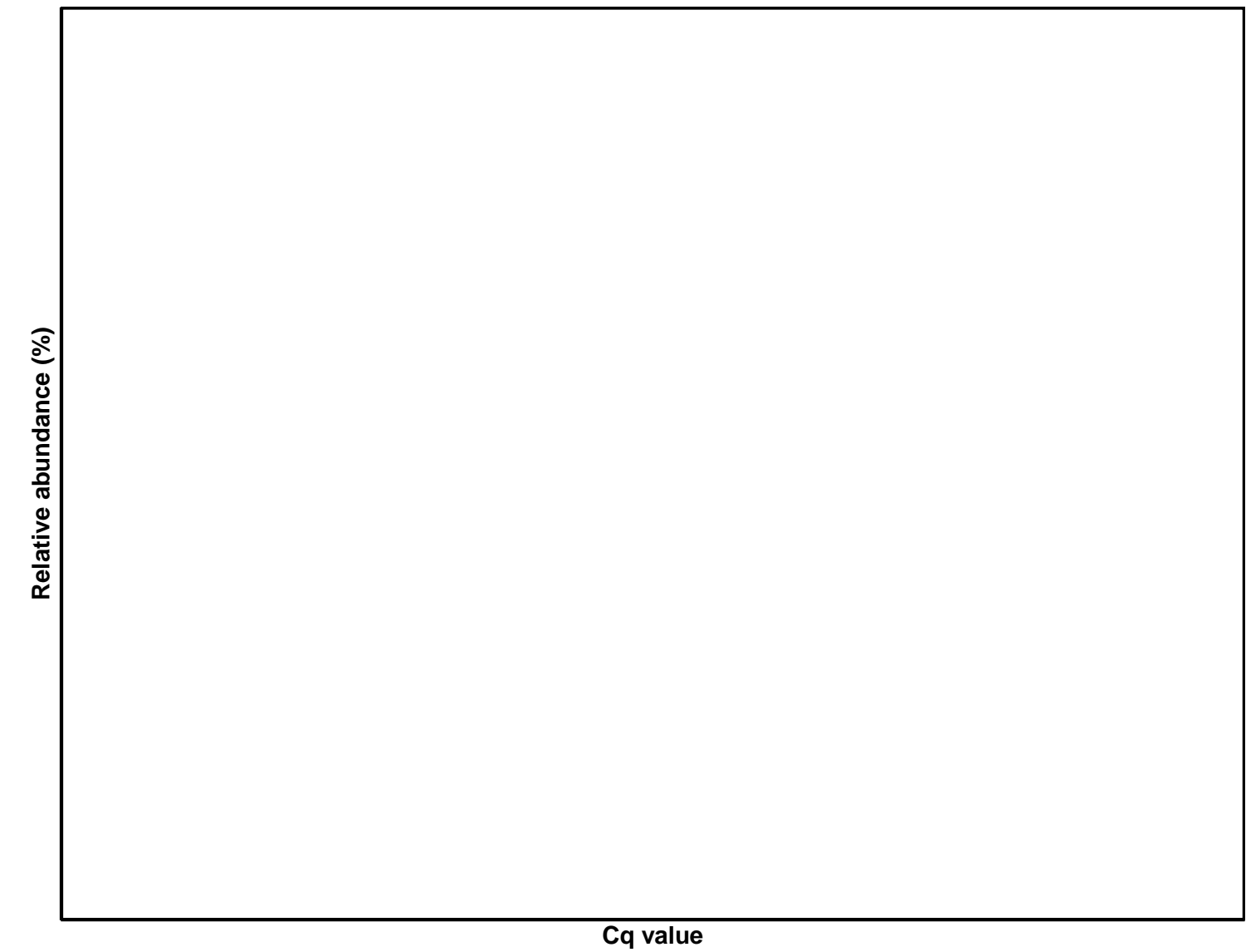


D\_0\_\_Bacteria; D\_1\_\_Firmicutes; D\_2\_\_Bacilli; D\_3\_\_Bacillales; D\_4\_\_Listeriaceae; D\_5\_\_Listeria; D\_6\_\_Listeria monocytogenes

Correlation with all samples

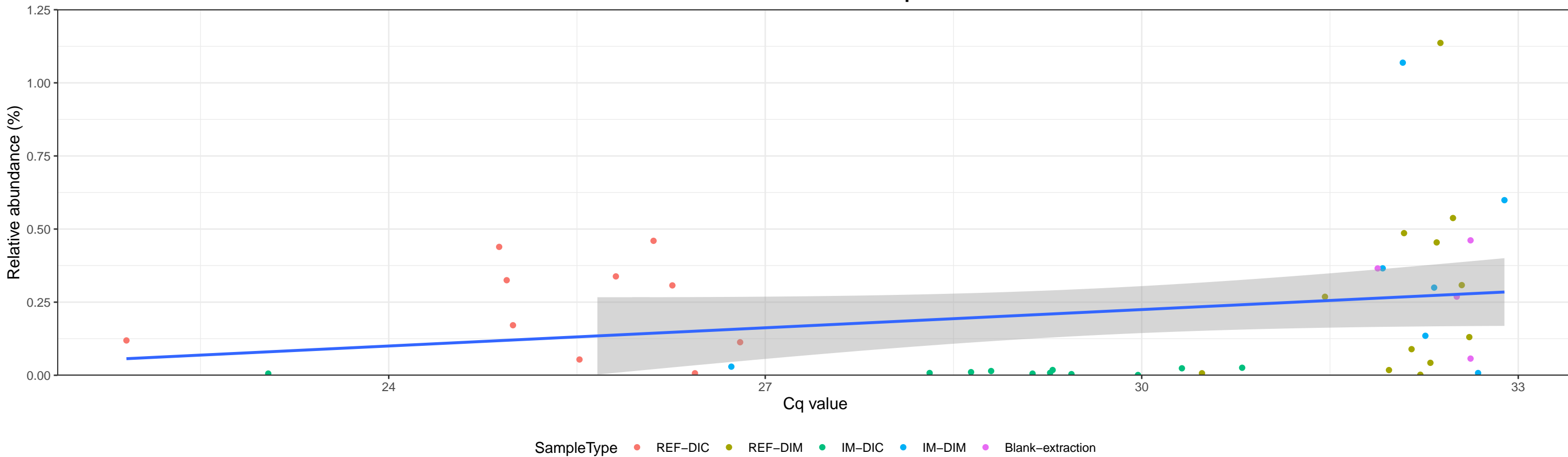


Correlation within the sample type:



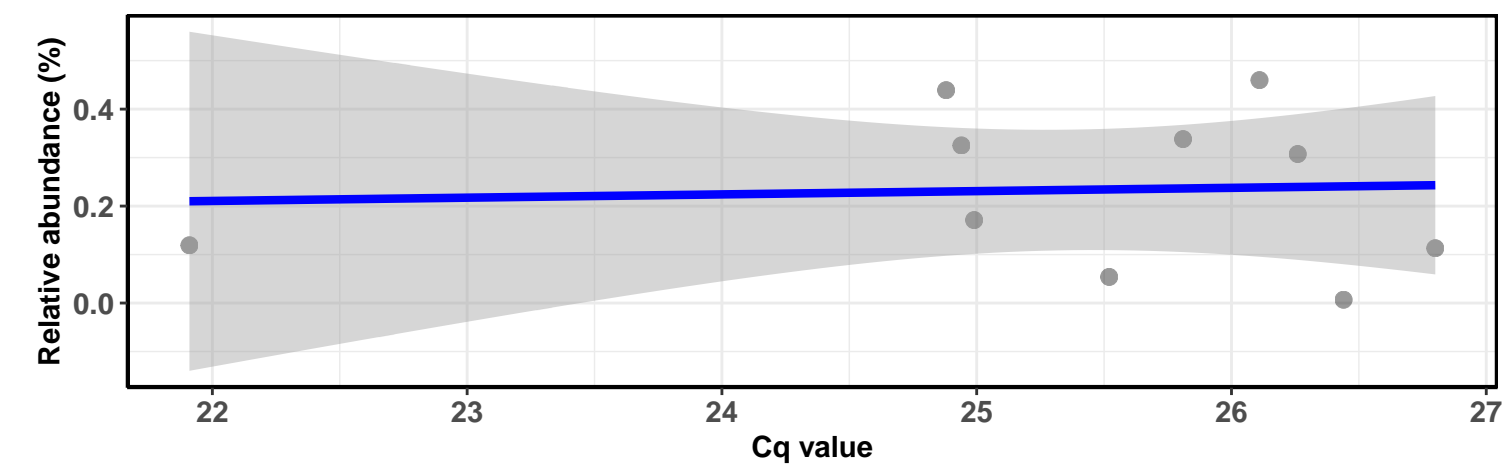
D\_0\_\_Bacteria; D\_1\_\_Actinobacteria; D\_2\_\_Actinobacteria; D\_3\_\_Propionibacteriales; D\_4\_\_Propionibacteriaceae; D\_5\_\_Cutibacterium

Correlation with all samples



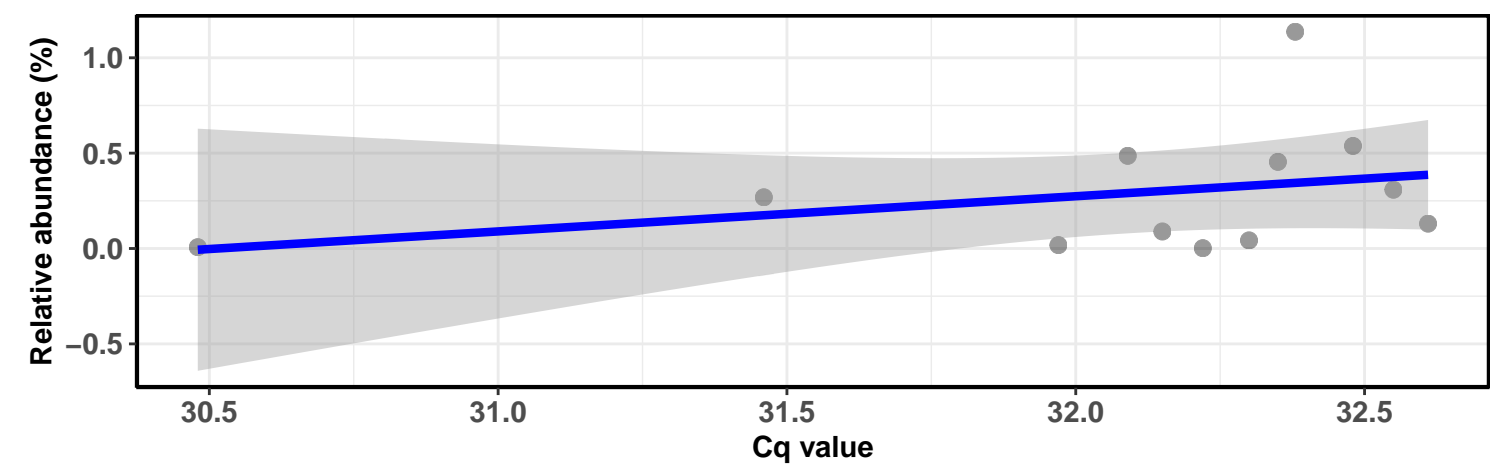
Correlation within the sample type: REF-DIC

$\log_e(S) = 5.366$ ,  $p = 0.405$ ,  $\rho_{\text{Spearman}} = -0.297$ ,  $\text{CI}_{95\%} [-0.781, 0.409]$ ,  $n = 10$



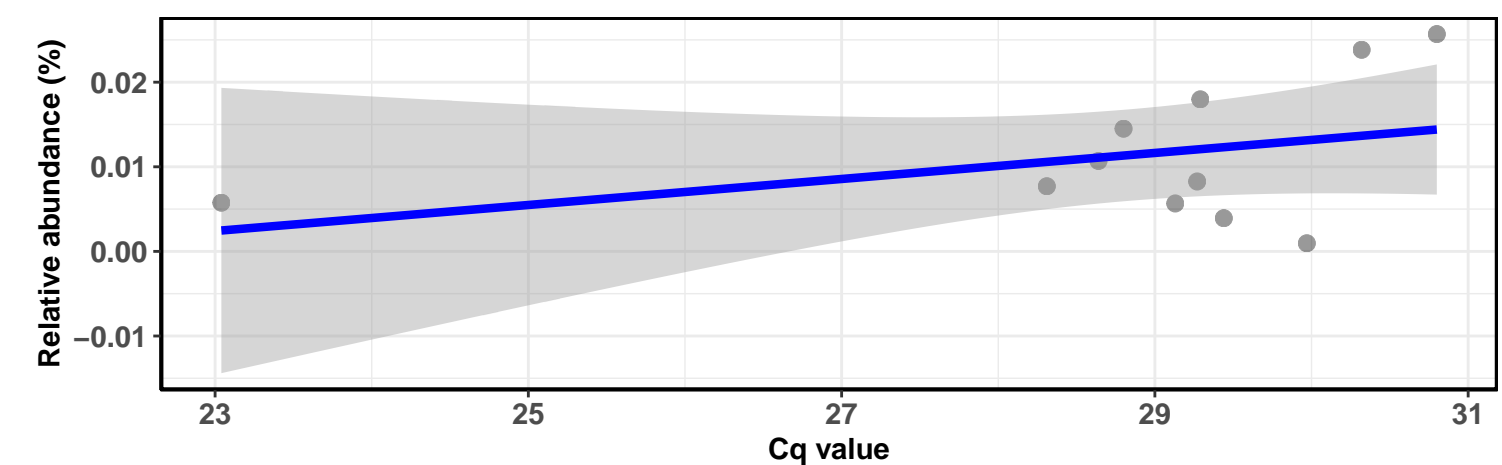
Correlation within the sample type: REF-DIM

$\log_e(S) = 5.024$ ,  $p = 0.124$ ,  $\rho_{\text{Spearman}} = 0.469$ ,  $\text{CI}_{95\%} [-0.144, 0.822]$ ,  $n = 12$



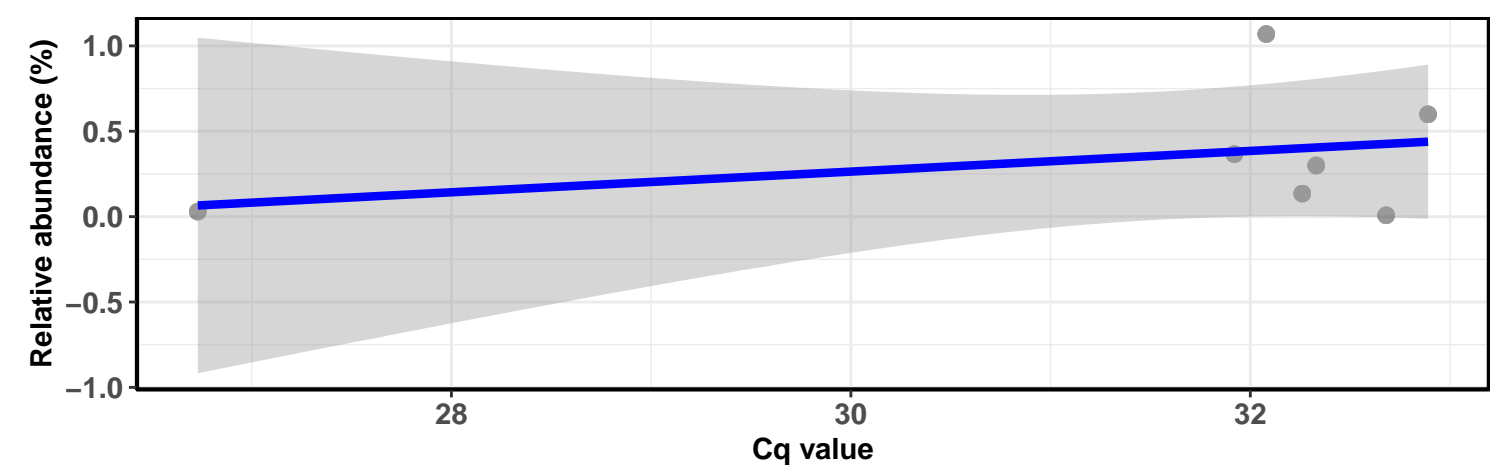
Correlation within the sample type: IM-DIC

$\log_e(S) = 5.063$ ,  $p = 0.401$ ,  $\rho_{\text{Spearman}} = 0.282$ ,  $\text{CI}_{95\%} [-0.383, 0.754]$ ,  $n = 11$



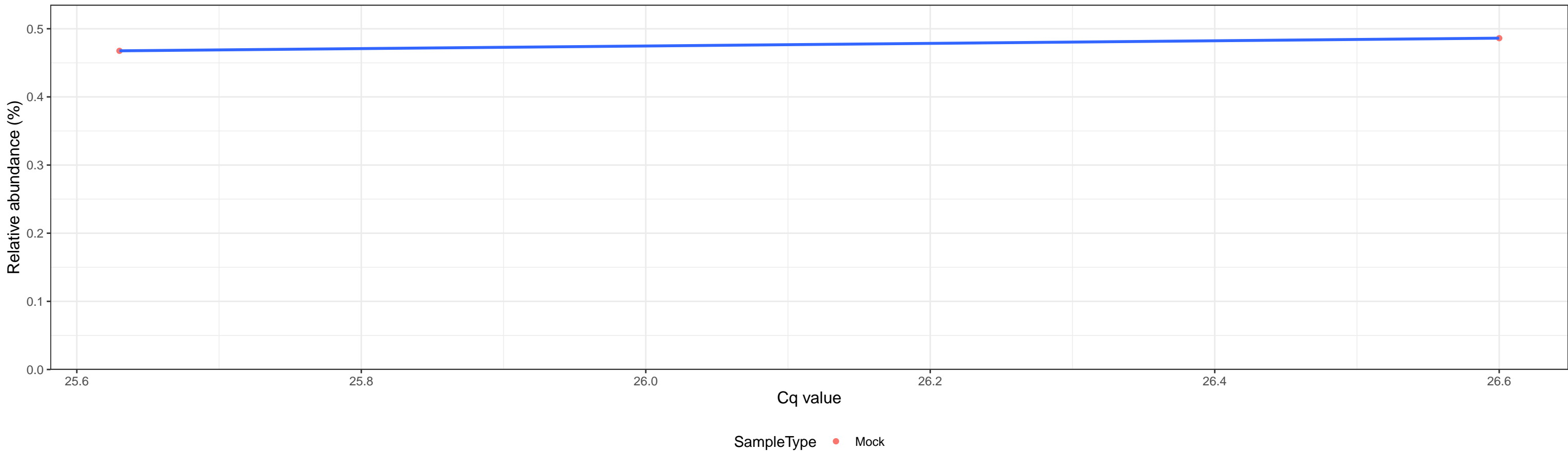
Correlation within the sample type: IM-DIM

$\log_e(S) = 3.989$ ,  $p = 0.939$ ,  $\rho_{\text{Spearman}} = 0.036$ ,  $\text{CI}_{95\%} [-0.737, 0.768]$ ,  $n = 7$

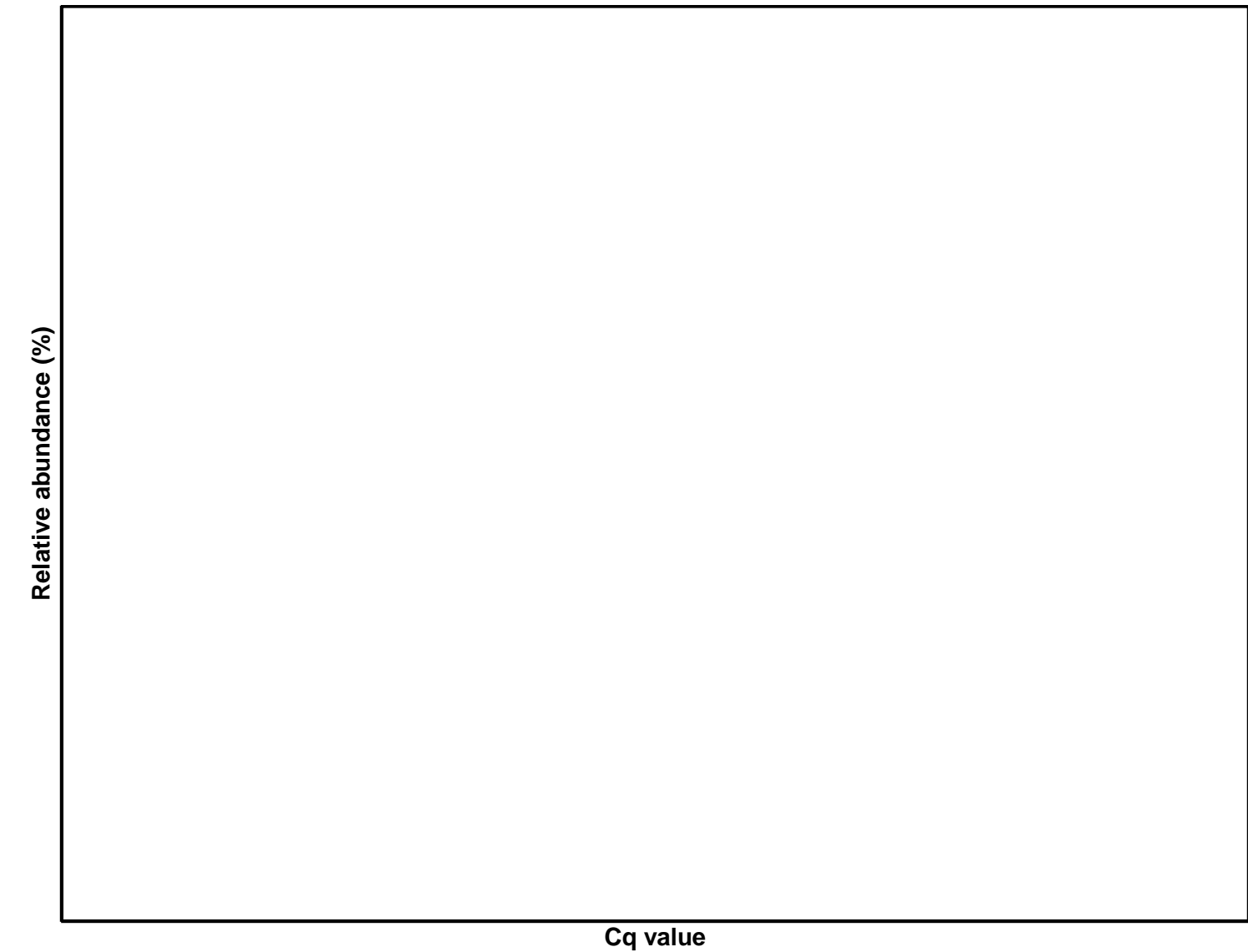


D\_0\_\_Bacteria; D\_1\_\_Firmicutes; D\_2\_\_Bacilli; D\_3\_\_Lactobacillales; D\_4\_\_Enterococcaceae; D\_5\_\_Enterococcus; D\_6\_\_Enterococcus faecalis

Correlation with all samples

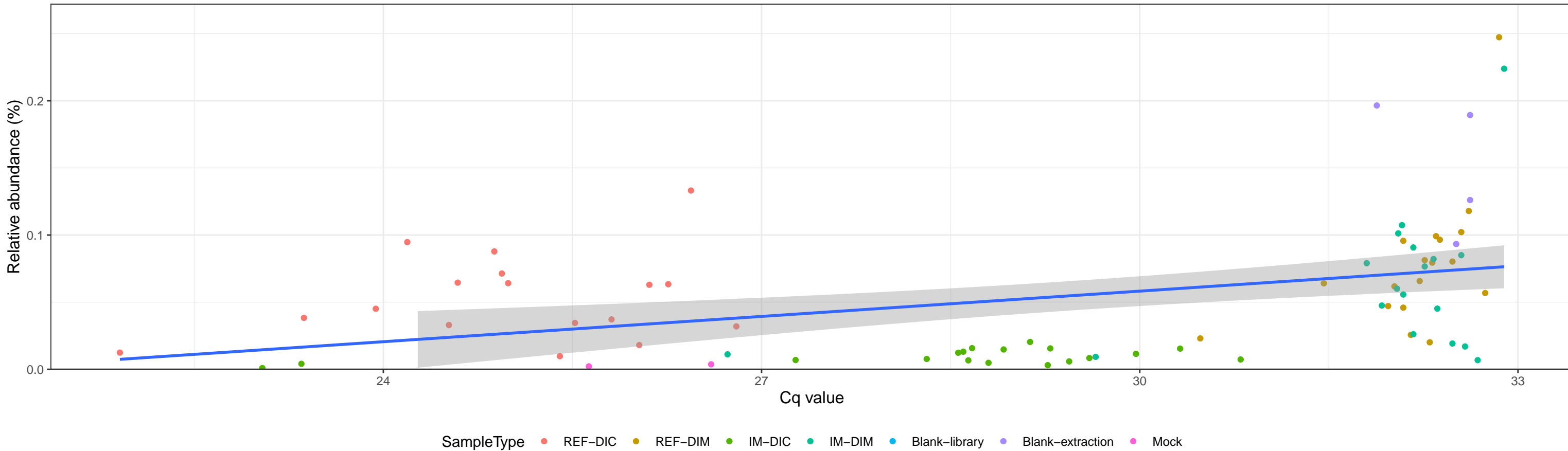


Correlation within the sample type:



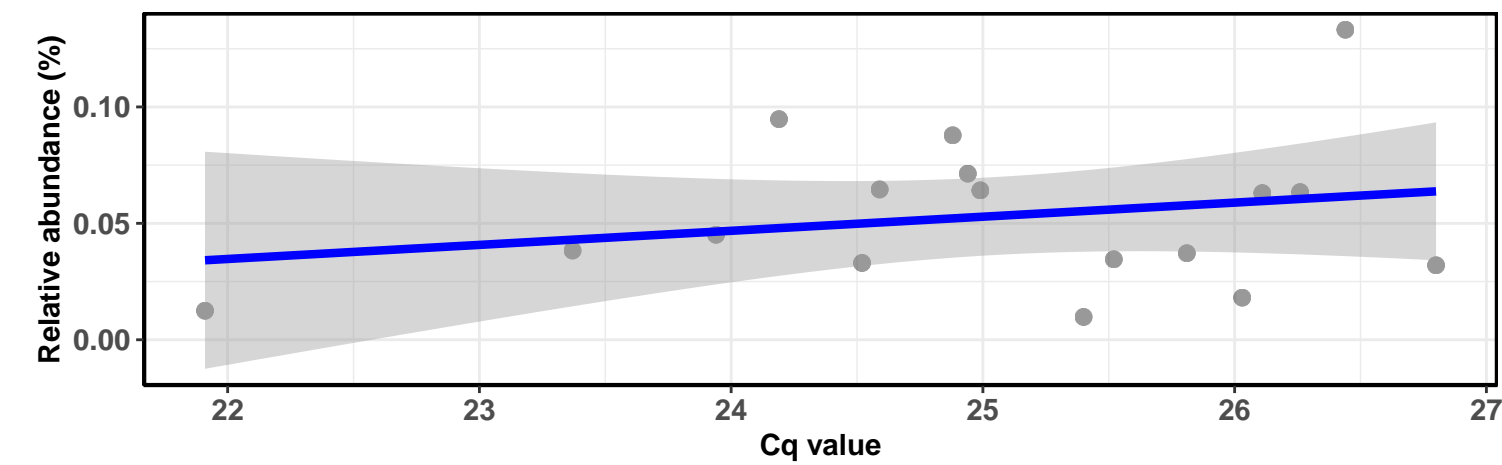
D\_0\_\_Bacteria; D\_1\_\_Proteobacteria; D\_2\_\_Gammaproteobacteria; D\_3\_\_Pseudomonadales; D\_4\_\_Pseudomonadaceae; D\_5\_\_Pseudomonas

### Correlation with all samples



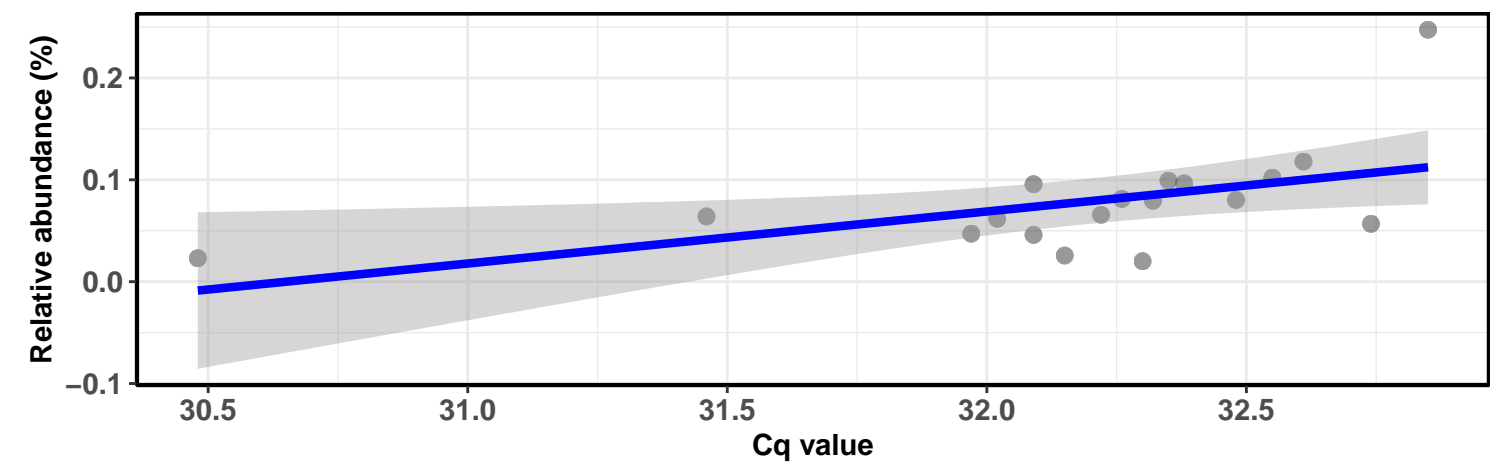
#### Correlation within the sample type: REF-DIC

$\log_e(S) = 6.695$ ,  $p = 0.970$ ,  $\rho_{\text{Spearman}} = 0.010$ ,  $\text{CI}_{95\%} [-0.473, 0.488]$ ,  $n = 17$



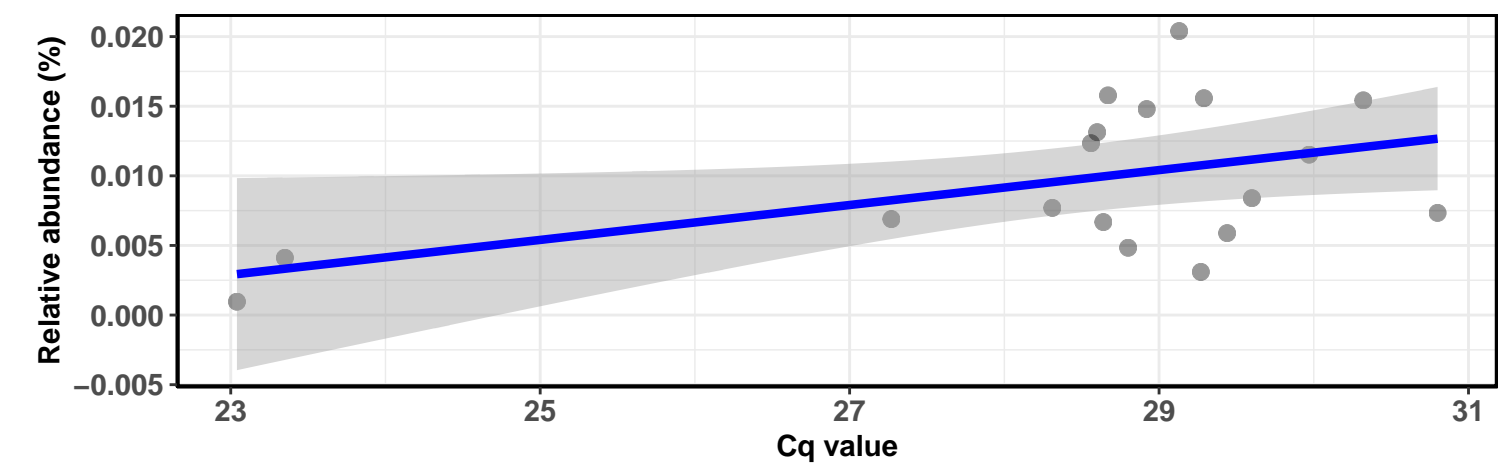
#### Correlation within the sample type: REF-DIM

$\log_e(S) = 5.882$ ,  $p = 0.005$ ,  $\rho_{\text{Spearman}} = 0.630$ ,  $\text{CI}_{95\%} [0.231, 0.847]$ ,  $n = 18$



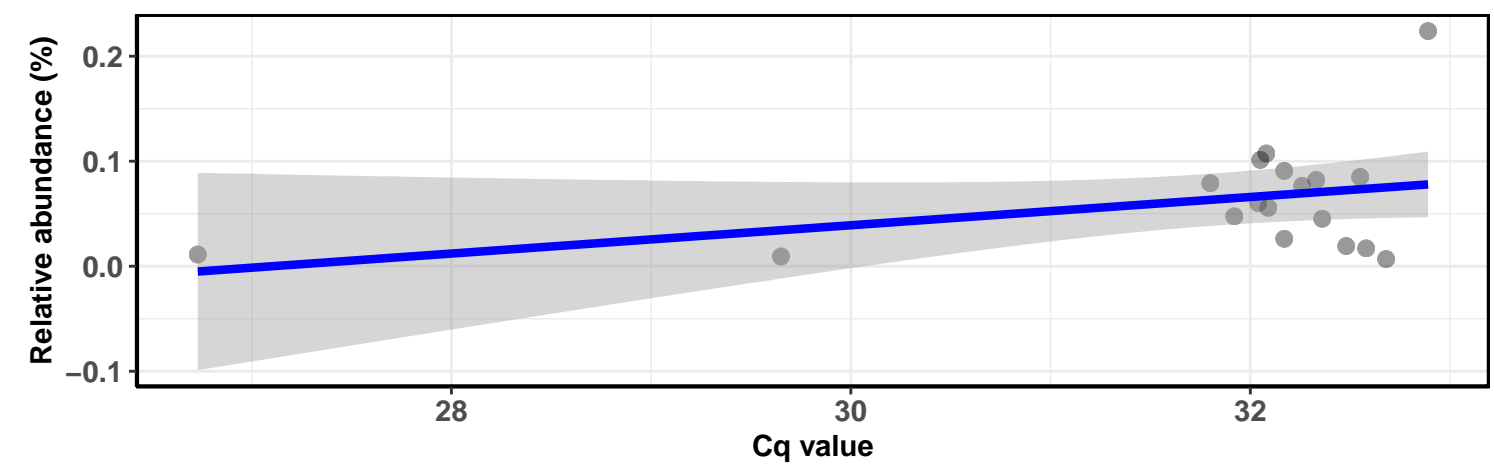
#### Correlation within the sample type: IM-DIC

$\log_e(S) = 6.486$ ,  $p = 0.191$ ,  $\rho_{\text{Spearman}} = 0.323$ ,  $\text{CI}_{95\%} [-0.169, 0.686]$ ,  $n = 18$



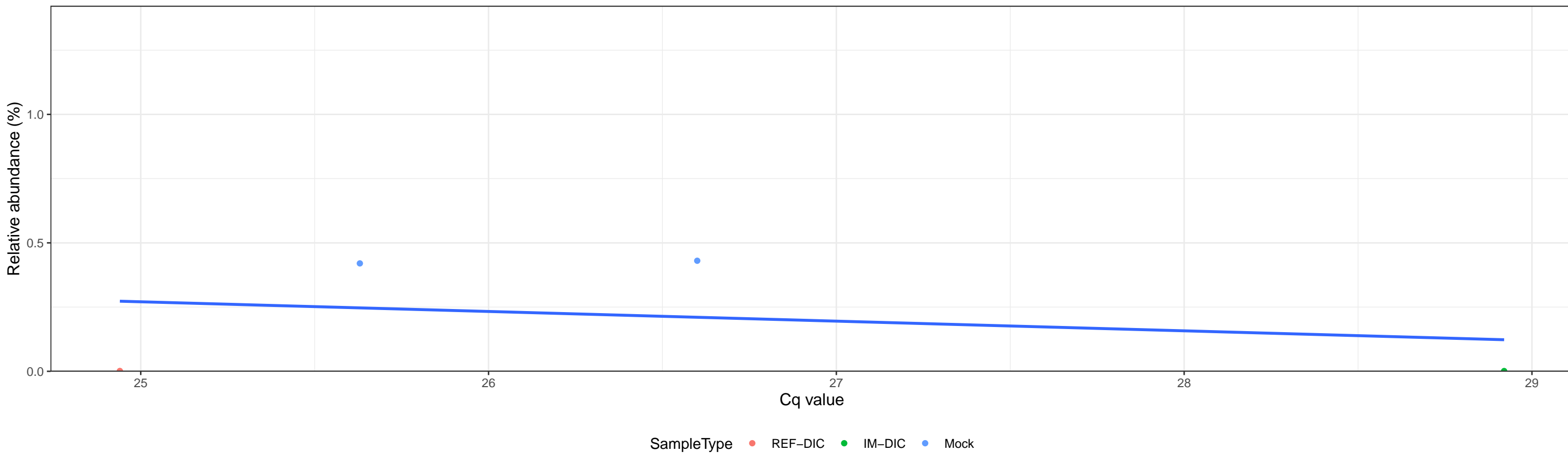
#### Correlation within the sample type: IM-DIM

$\log_e(S) = 6.790$ ,  $p = 0.745$ ,  $\rho_{\text{Spearman}} = 0.083$ ,  $\text{CI}_{95\%} [-0.400, 0.529]$ ,  $n = 18$

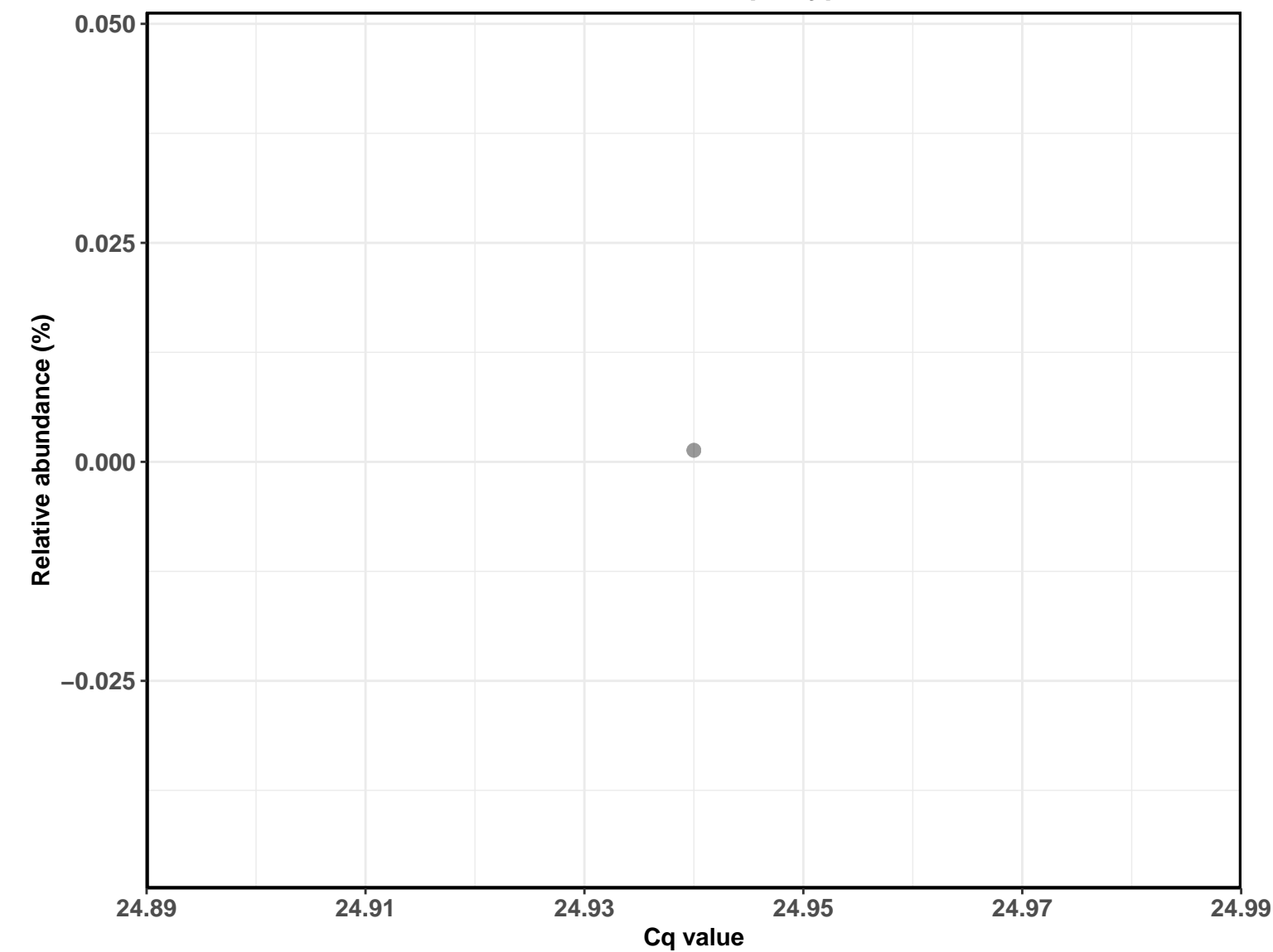


D\_0\_\_Bacteria; D\_1\_\_Firmicutes; D\_2\_\_Bacilli; D\_3\_\_Lactobacillales; D\_4\_\_Lactobacillaceae; D\_5\_\_Lactobacillus; D\_6\_\_Lactobacillus fermentum

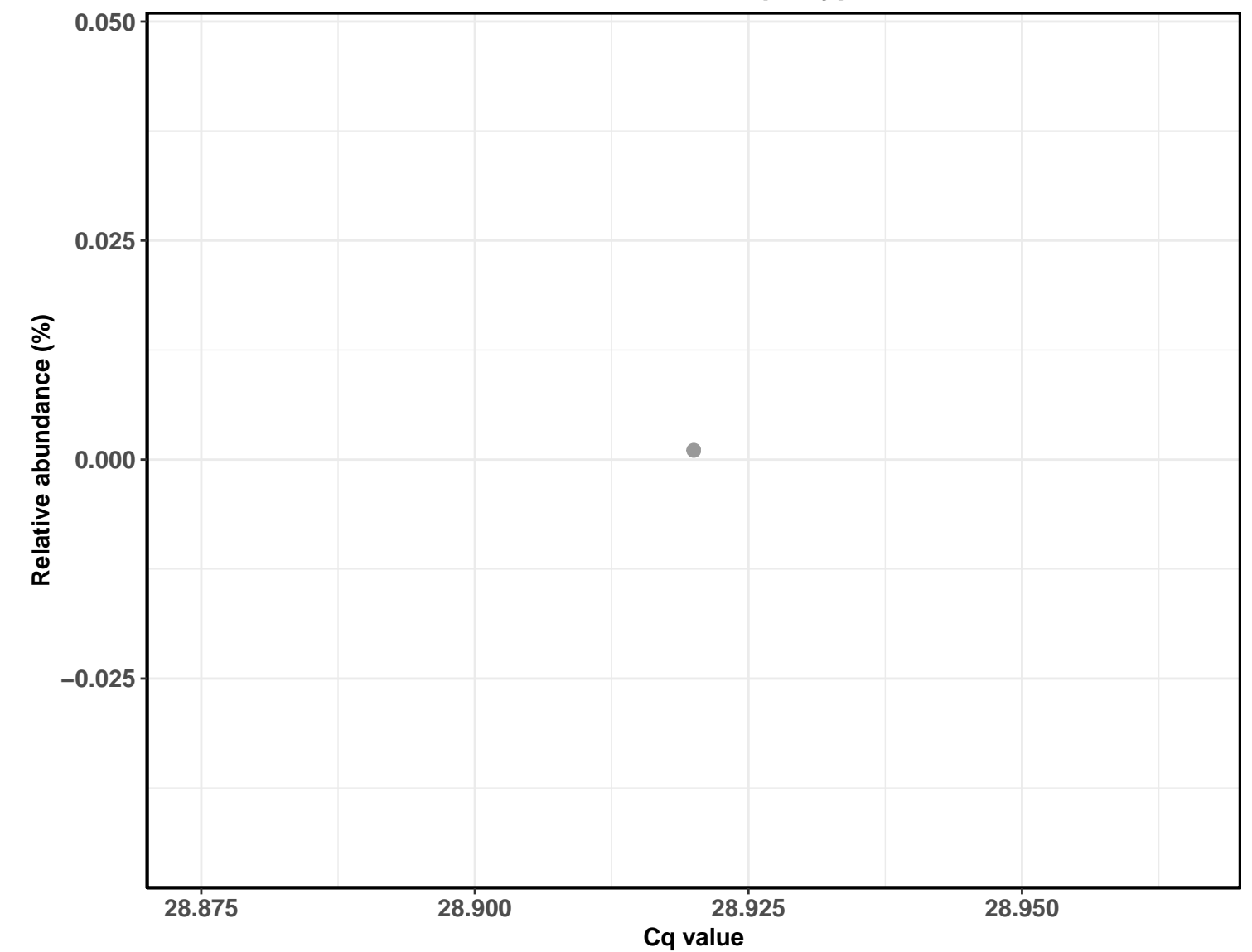
Correlation with all samples



Correlation within the sample type: REF-DIC



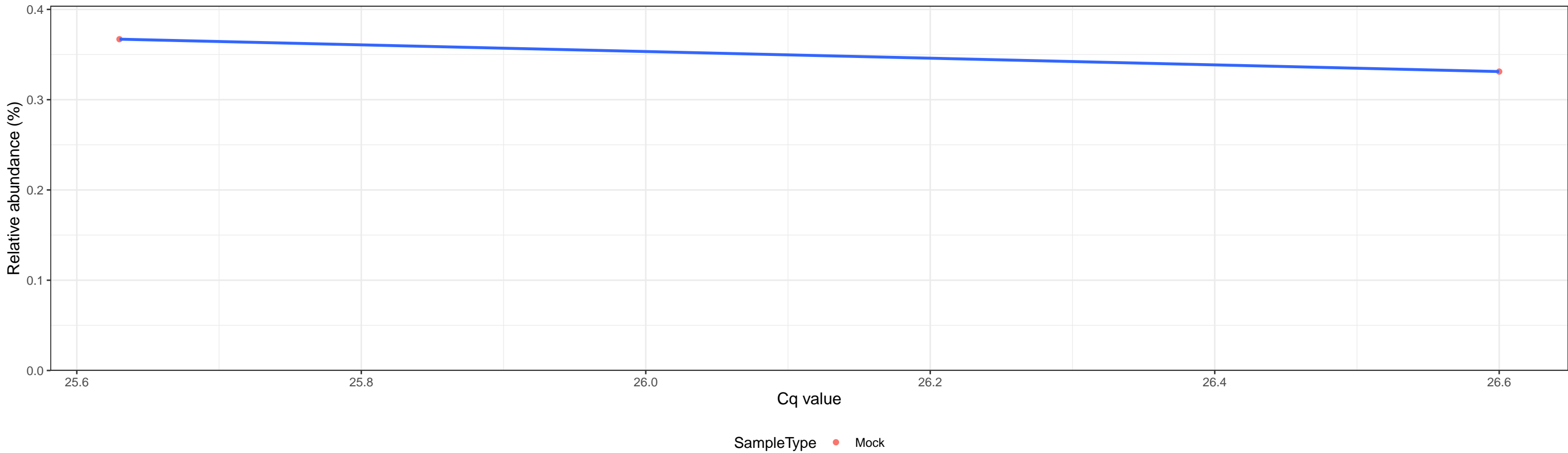
Correlation within the sample type: IM-DIC



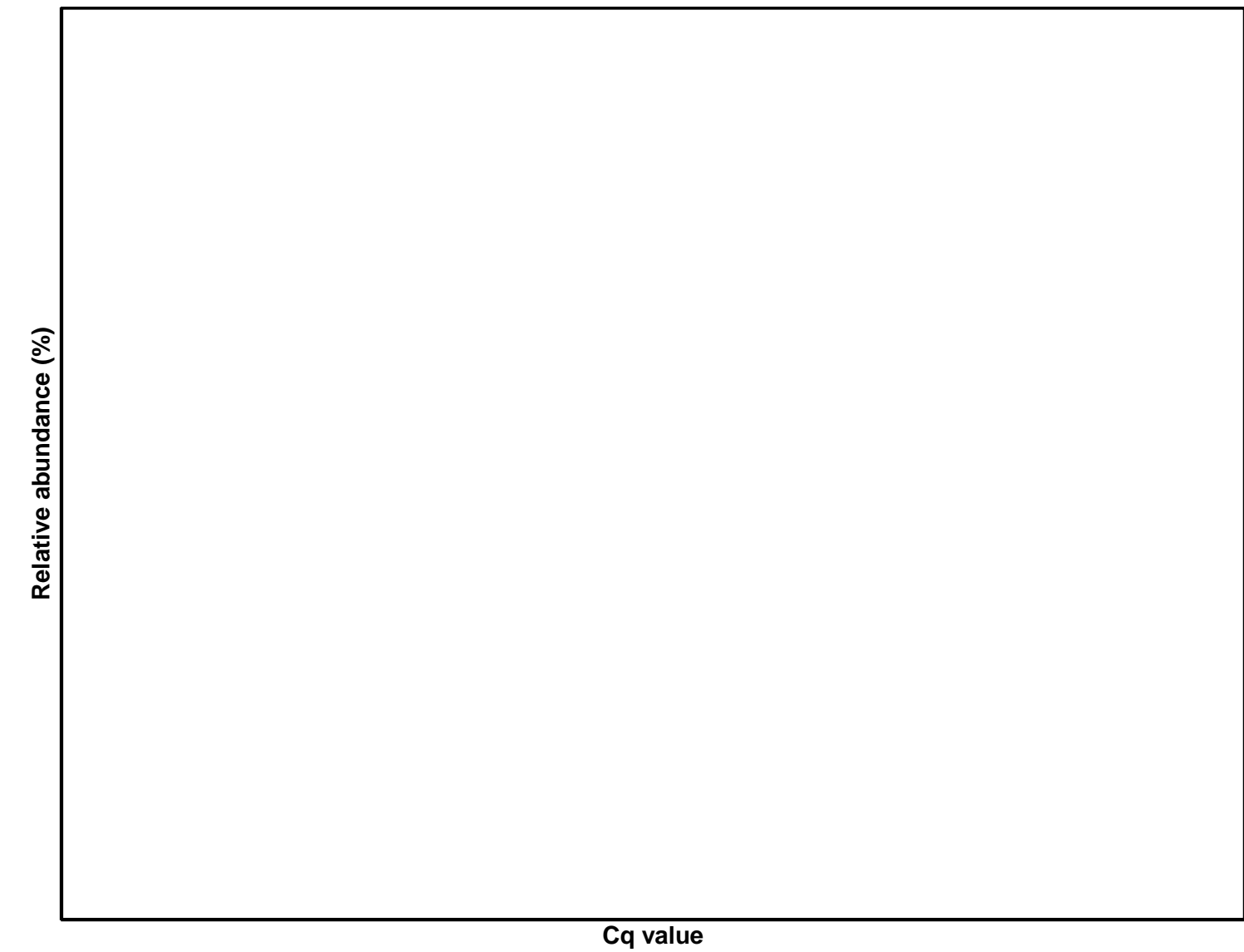


D\_0\_\_Bacteria; D\_1\_\_Firmicutes; D\_2\_\_Bacilli; D\_3\_\_Lactobacillales; D\_4\_\_Lactobacillaceae; D\_5\_\_Lactobacillus; D\_6\_\_Lactobacillus fermentum

Correlation with all samples

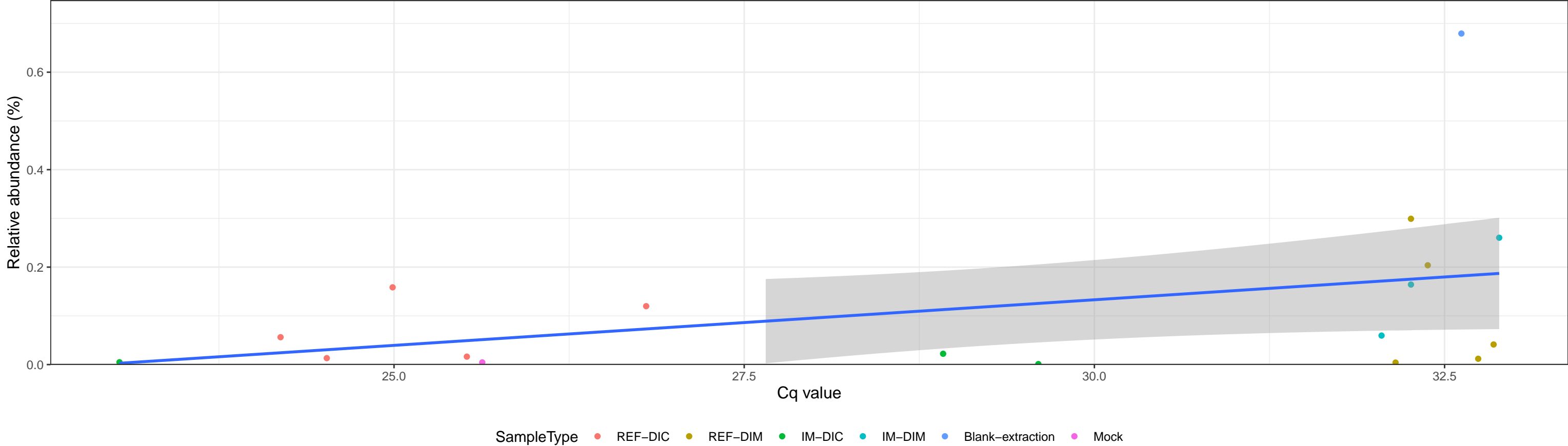


Correlation within the sample type:

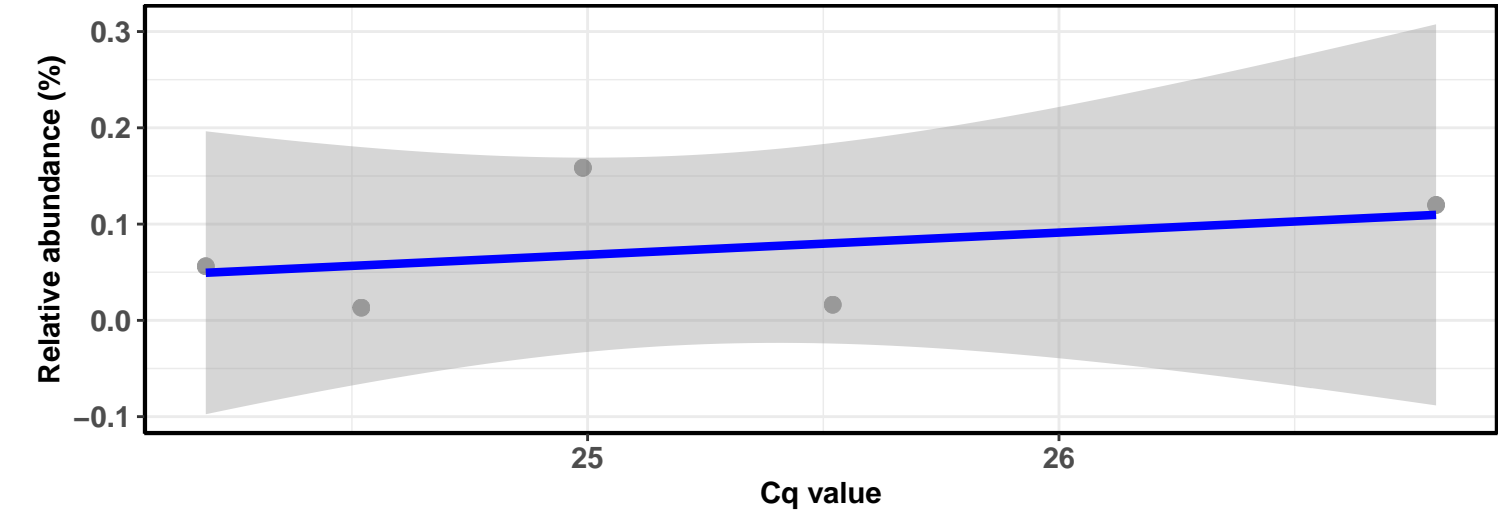


D\_0\_\_Bacteria; D\_1\_\_Actinobacteria; D\_2\_\_Actinobacteria; D\_3\_\_Micrococcales; D\_4\_\_Microbacteriaceae; D\_5\_\_Curtobacterium; Ambiguous\_taxa

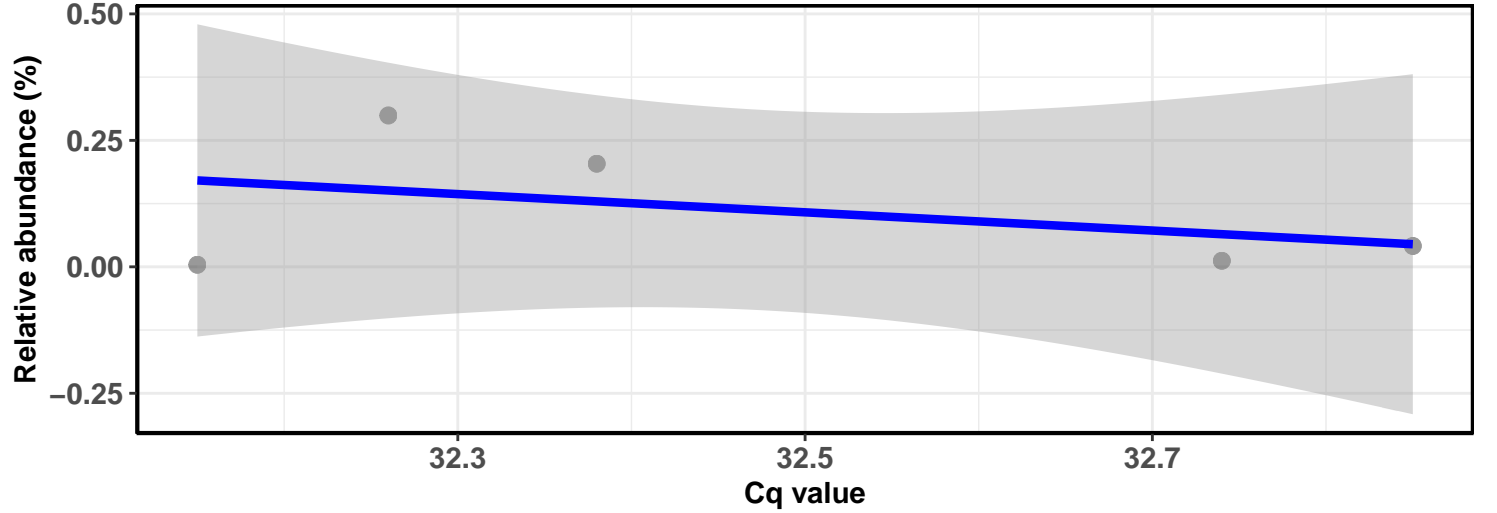
Correlation with all samples



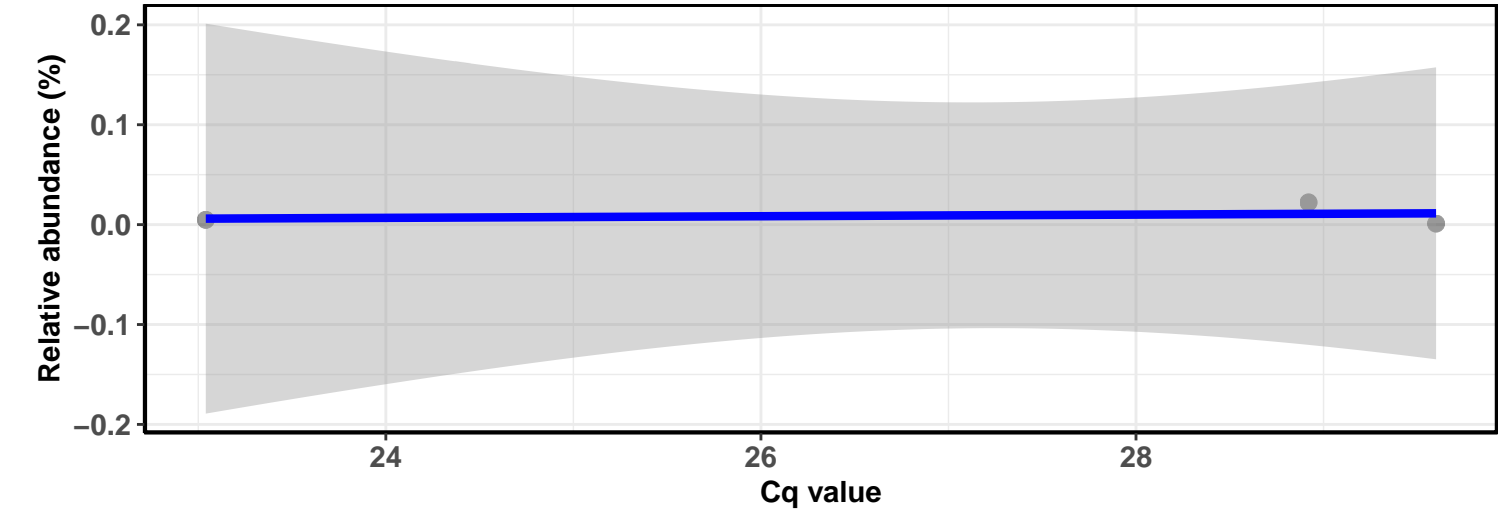
Correlation within the sample type: REF-DIC



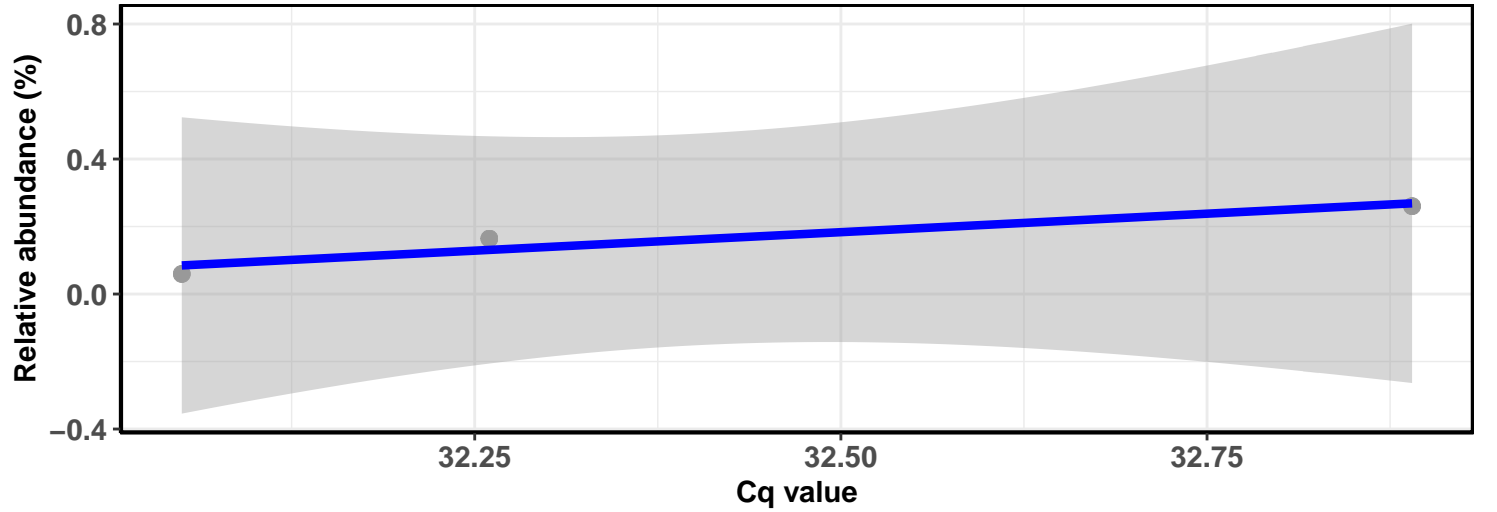
Correlation within the sample type: REF-DIM



Correlation within the sample type: IM-DIC

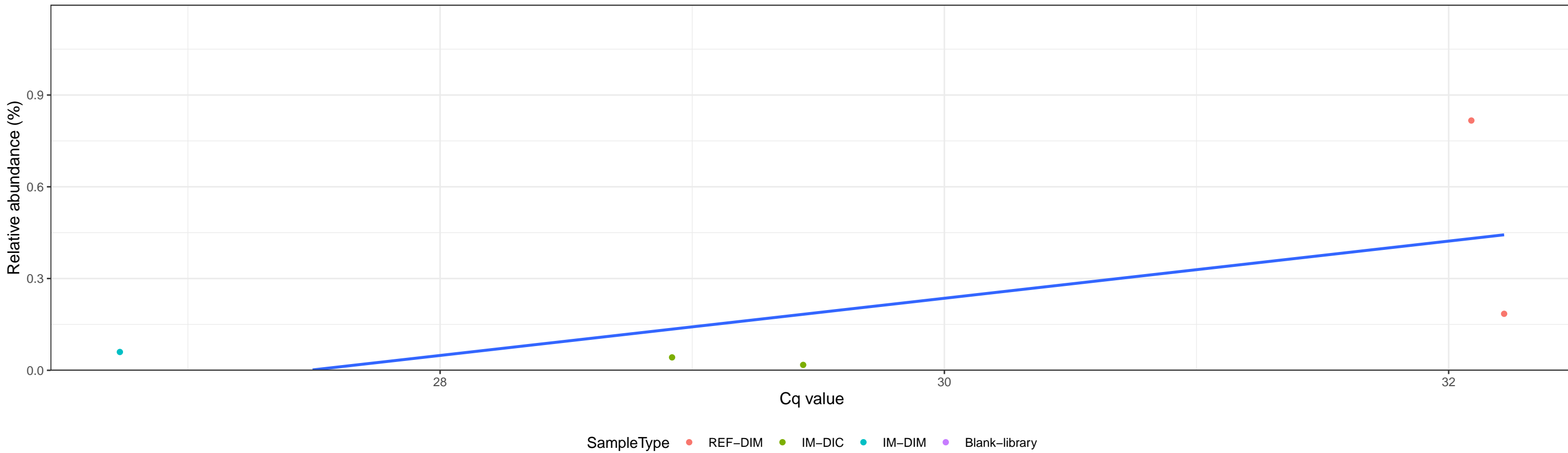


Correlation within the sample type: IM-DIM

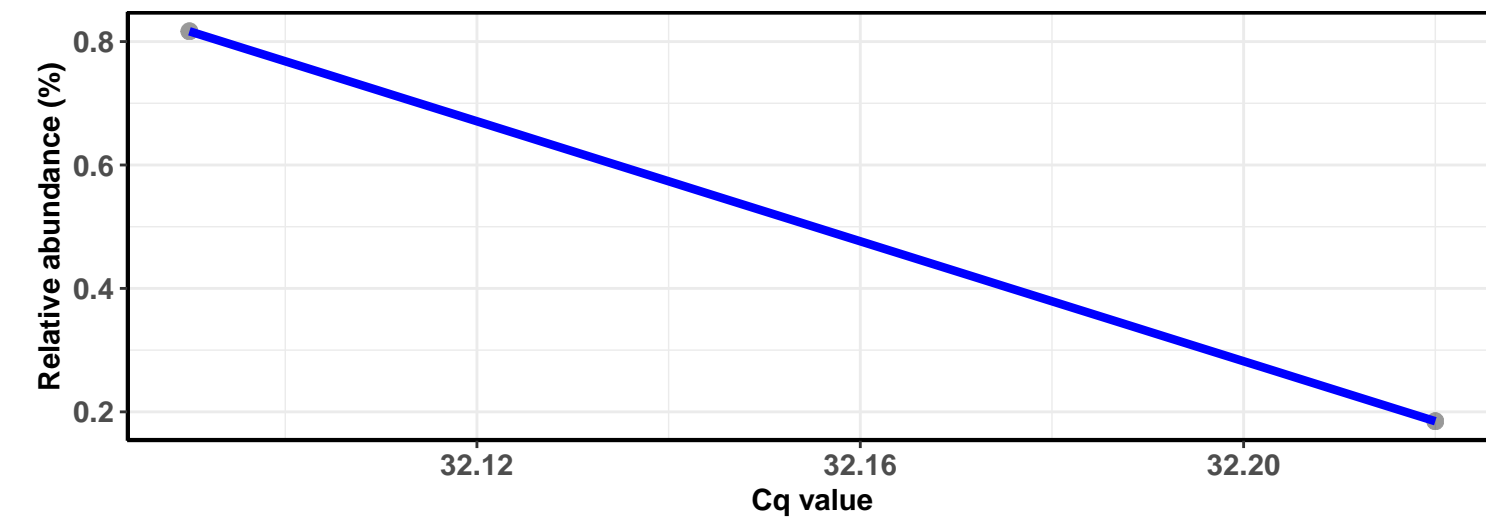


D\_0\_\_Bacteria; D\_1\_\_Firmicutes; D\_2\_\_Bacilli; D\_3\_\_Bacillales; D\_4\_\_Staphylococcaceae; D\_5\_\_Jeotgalicoccus; Ambiguous\_taxa

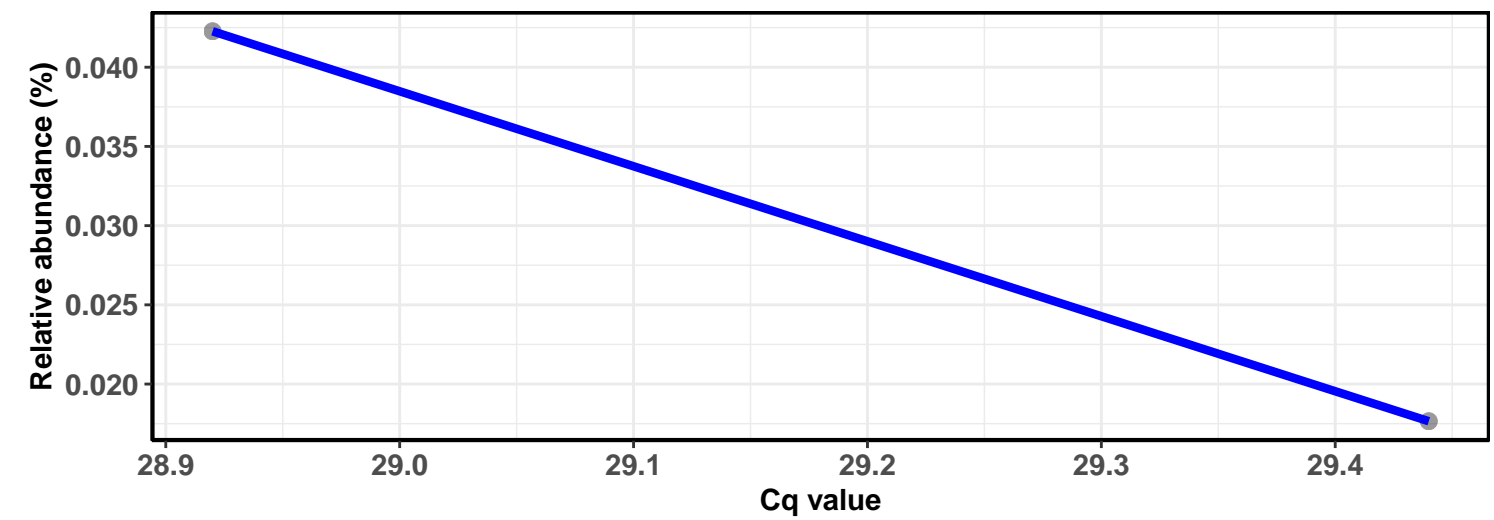
Correlation with all samples



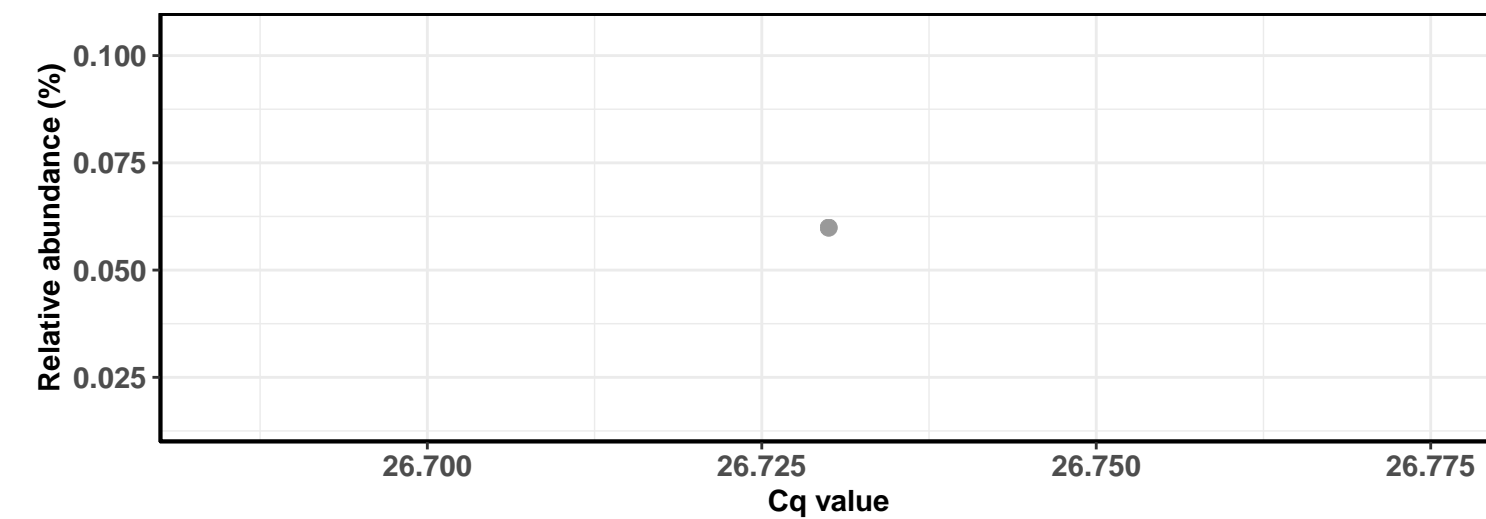
Correlation within the sample type: REF-DIM



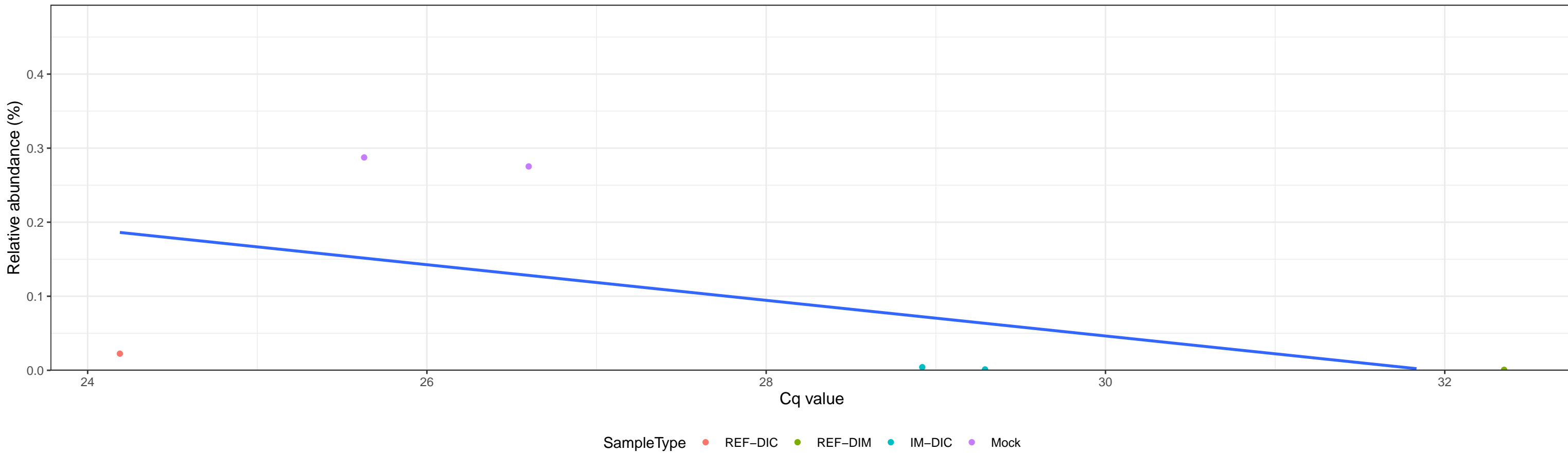
Correlation within the sample type: IM-DIC



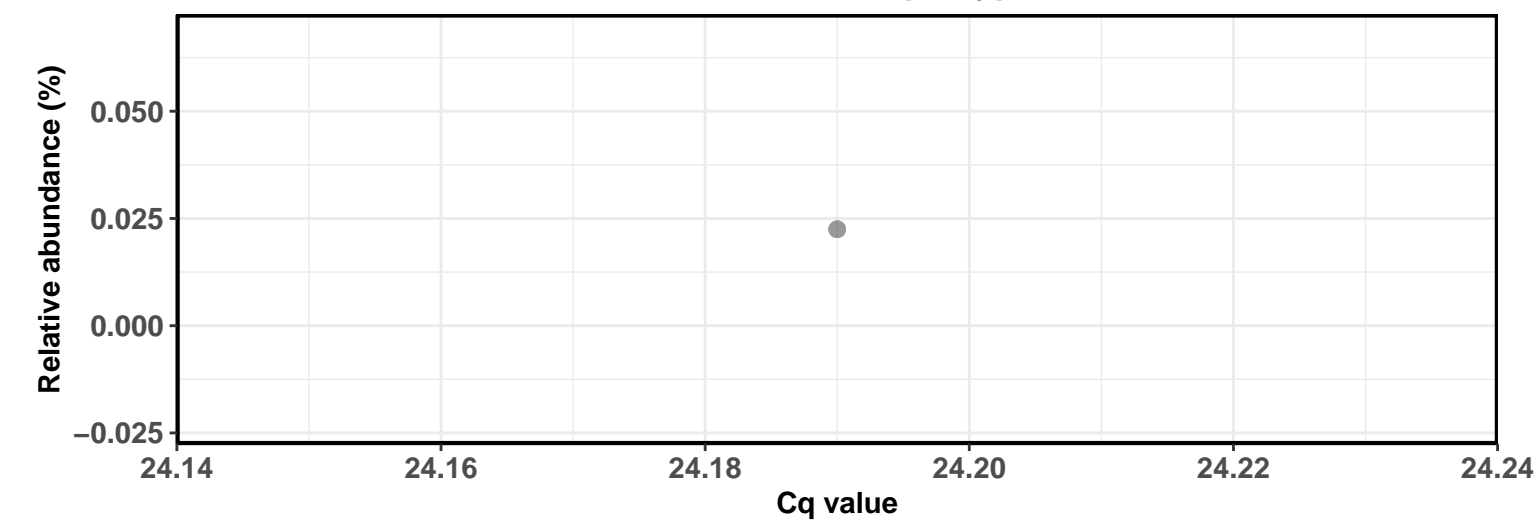
Correlation within the sample type: IM-DIM



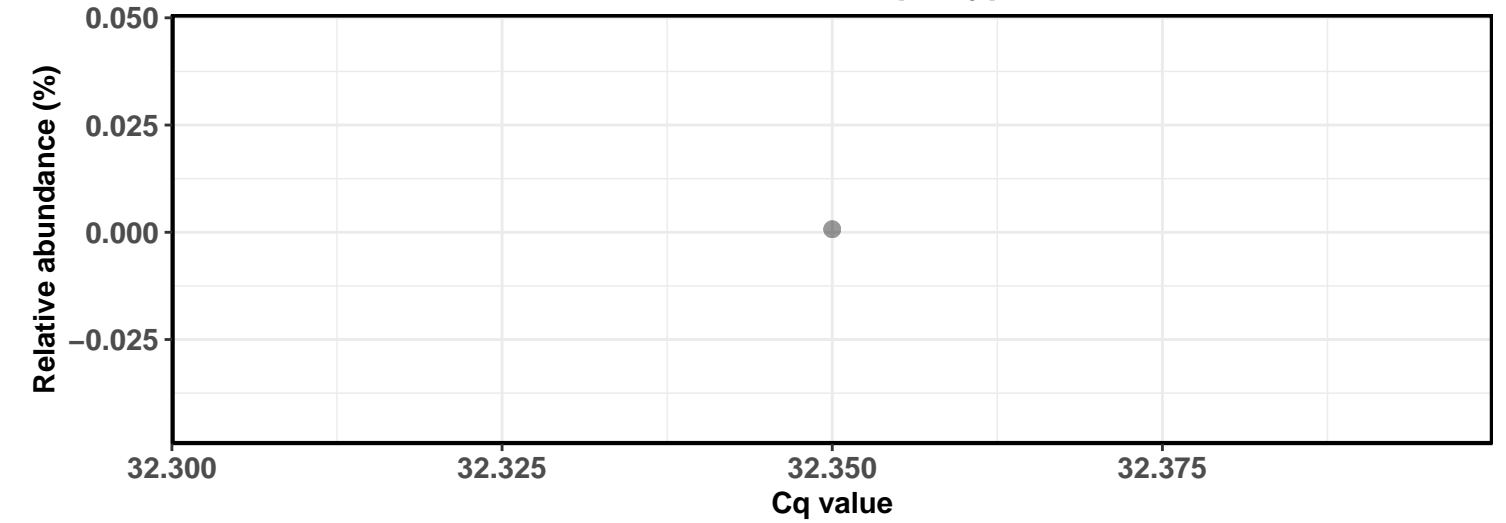
Correlation with all samples



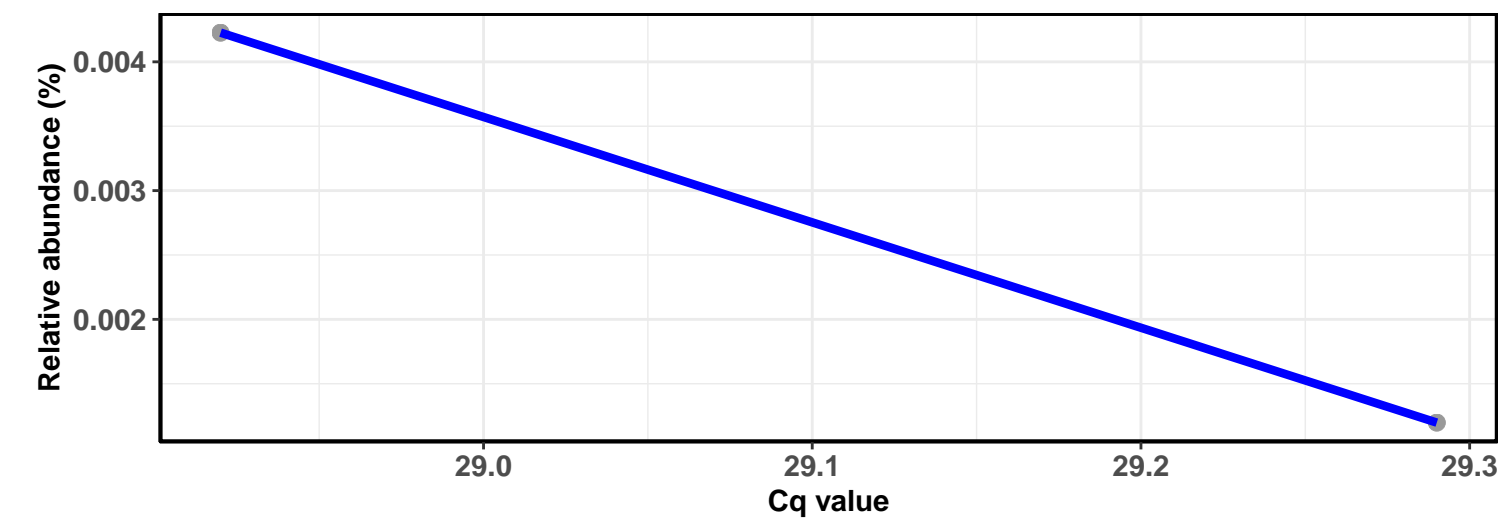
Correlation within the sample type: REF-DIC



Correlation within the sample type: REF-DIM

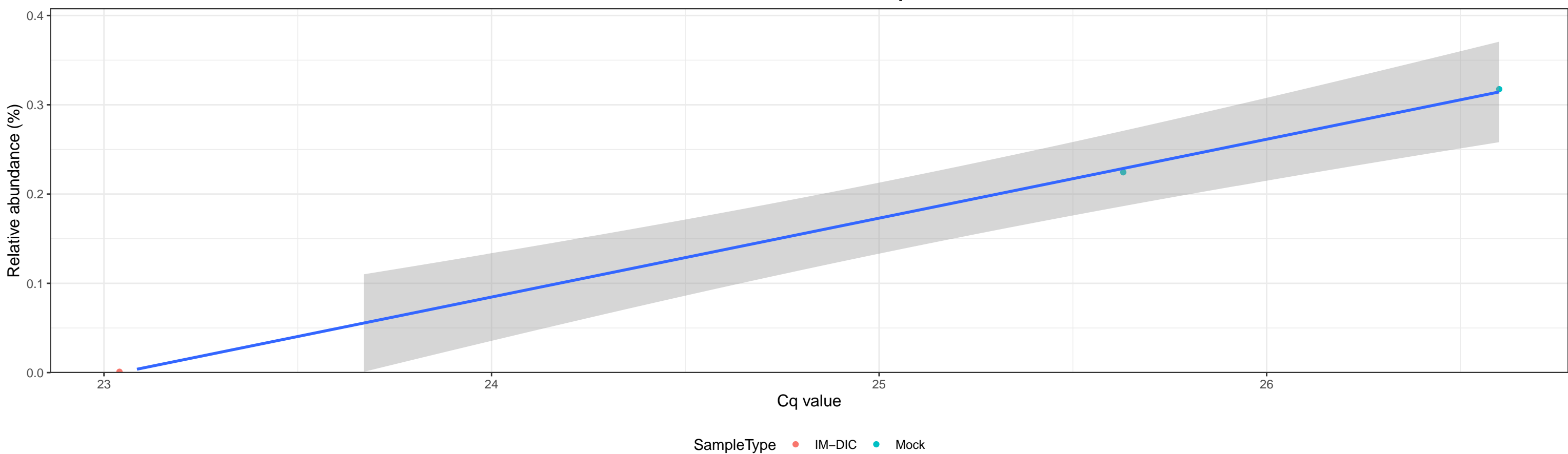


Correlation within the sample type: IM-DIC

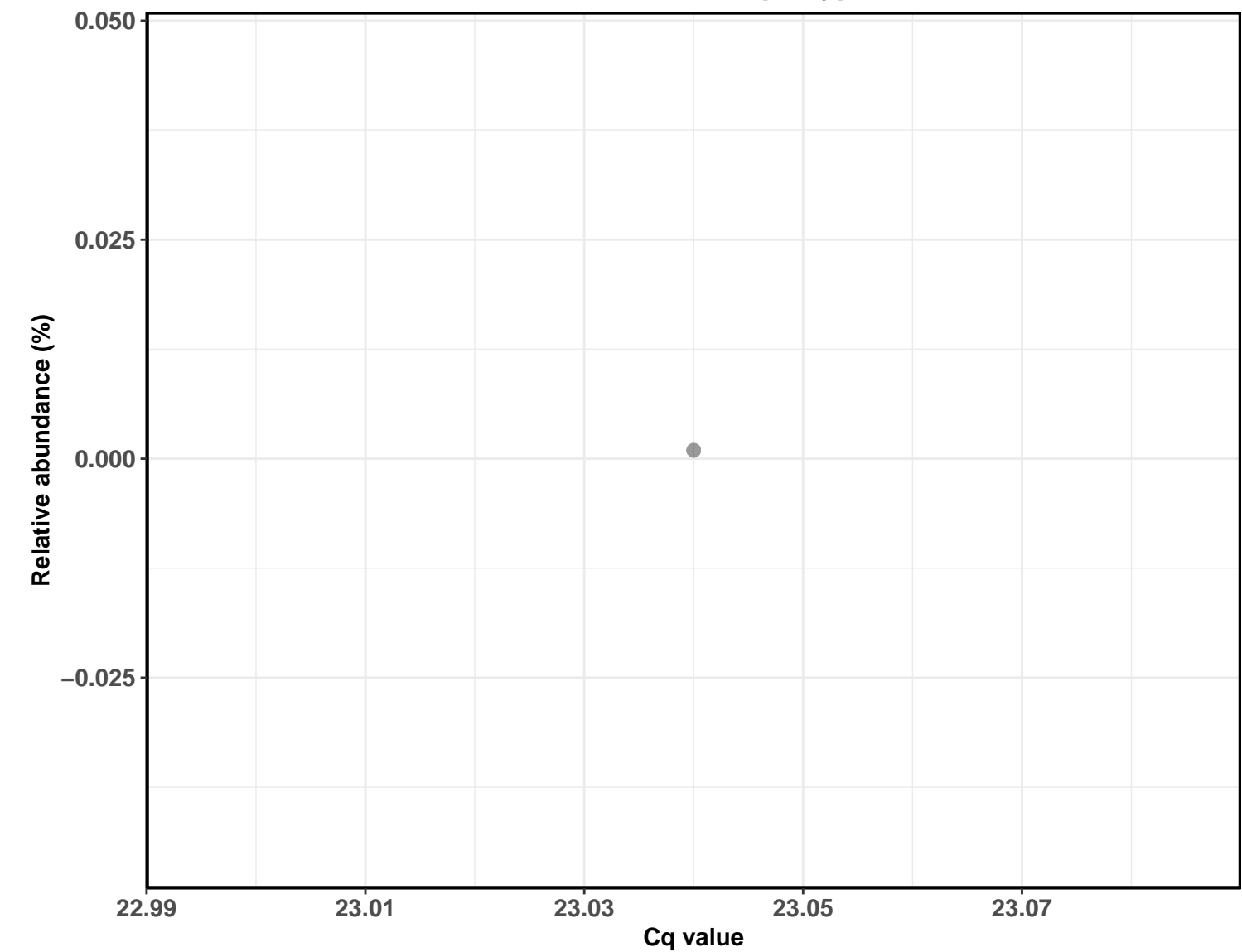


D\_0\_\_Bacteria; D\_1\_\_Firmicutes; D\_2\_\_Bacilli; D\_3\_\_Bacillales; D\_4\_\_Listeriaceae; D\_5\_\_Listeria; D\_6\_\_Listeria monocytogenes

Correlation with all samples

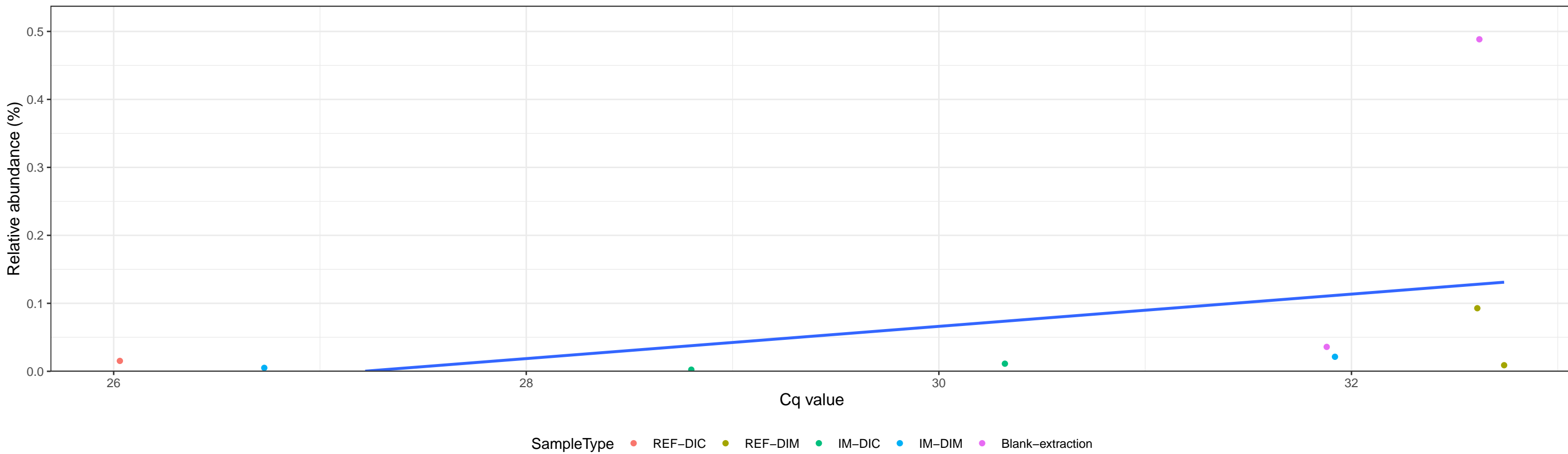


Correlation within the sample type: IM-DIC

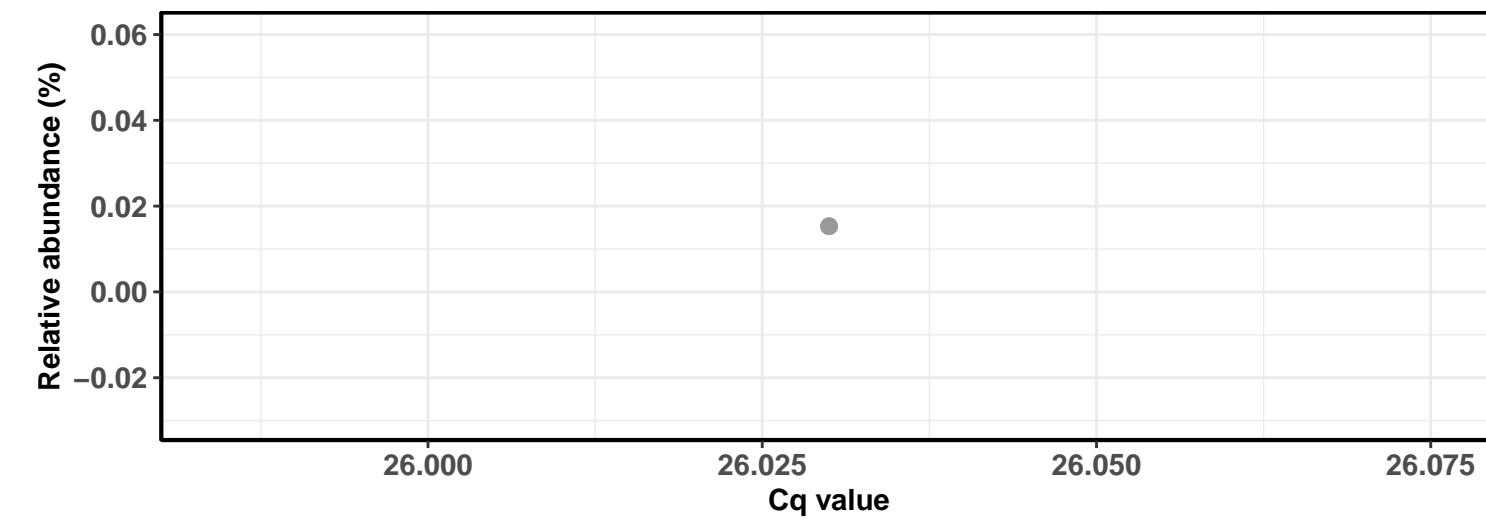


D\_0\_\_Bacteria; D\_1\_\_Actinobacteria; D\_2\_\_Actinobacteria; D\_3\_\_Frankiales; D\_4\_\_Geodermatophilaceae; D\_5\_\_Modestobacter; Ambiguous\_taxa

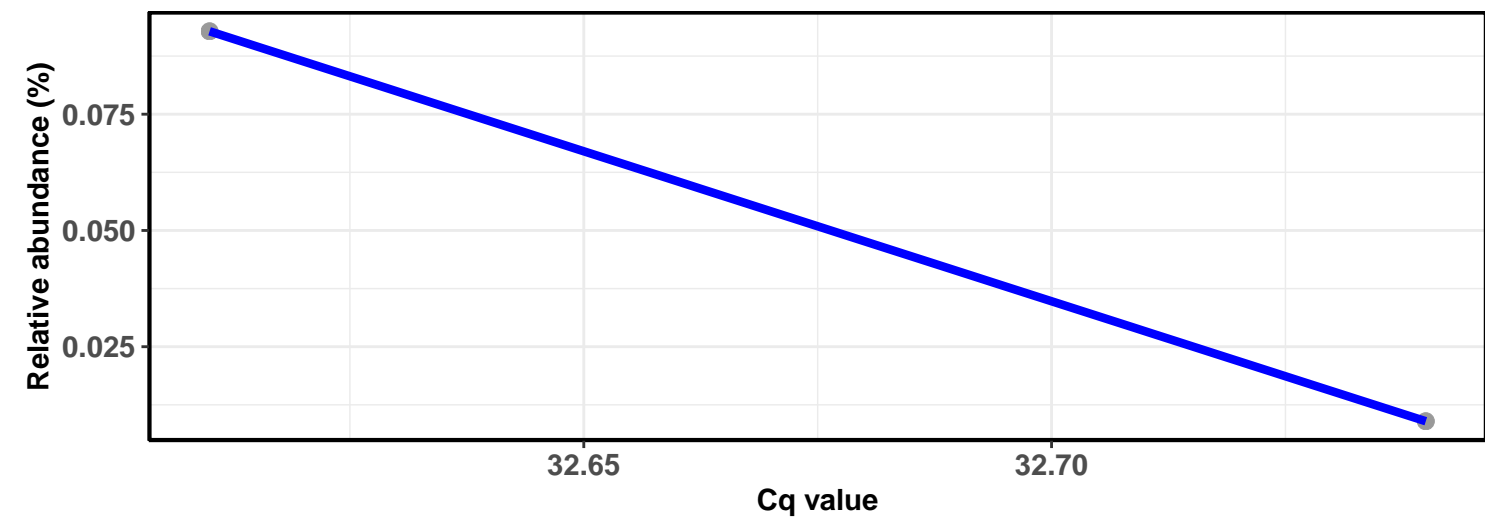
Correlation with all samples



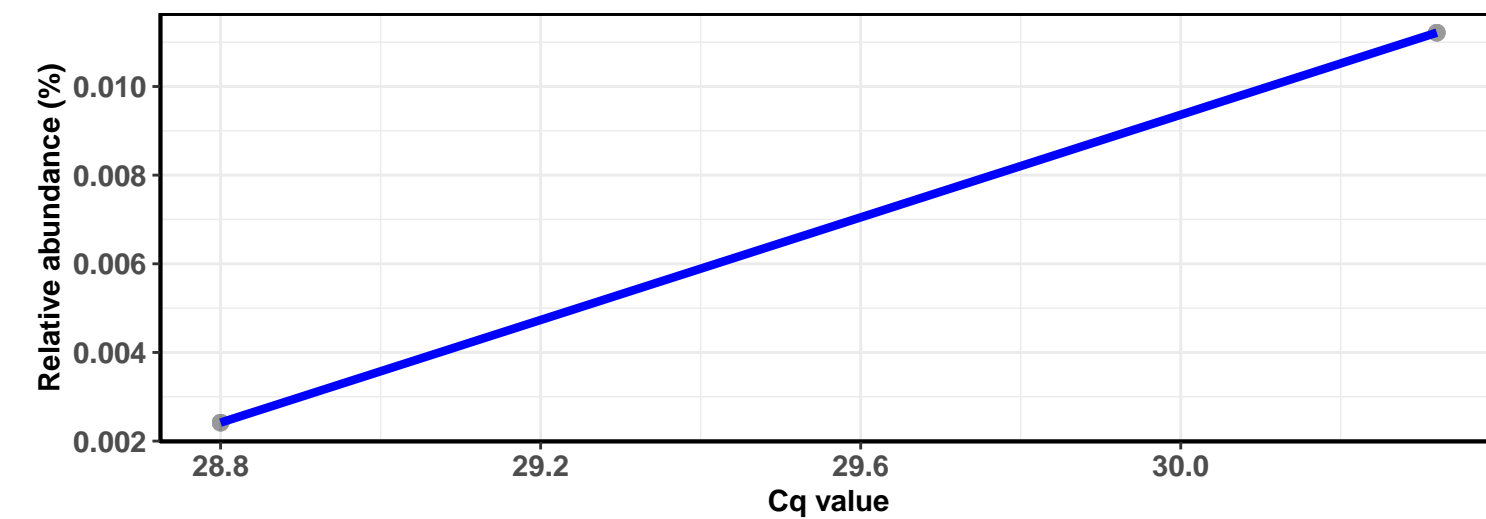
Correlation within the sample type: REF-DIC



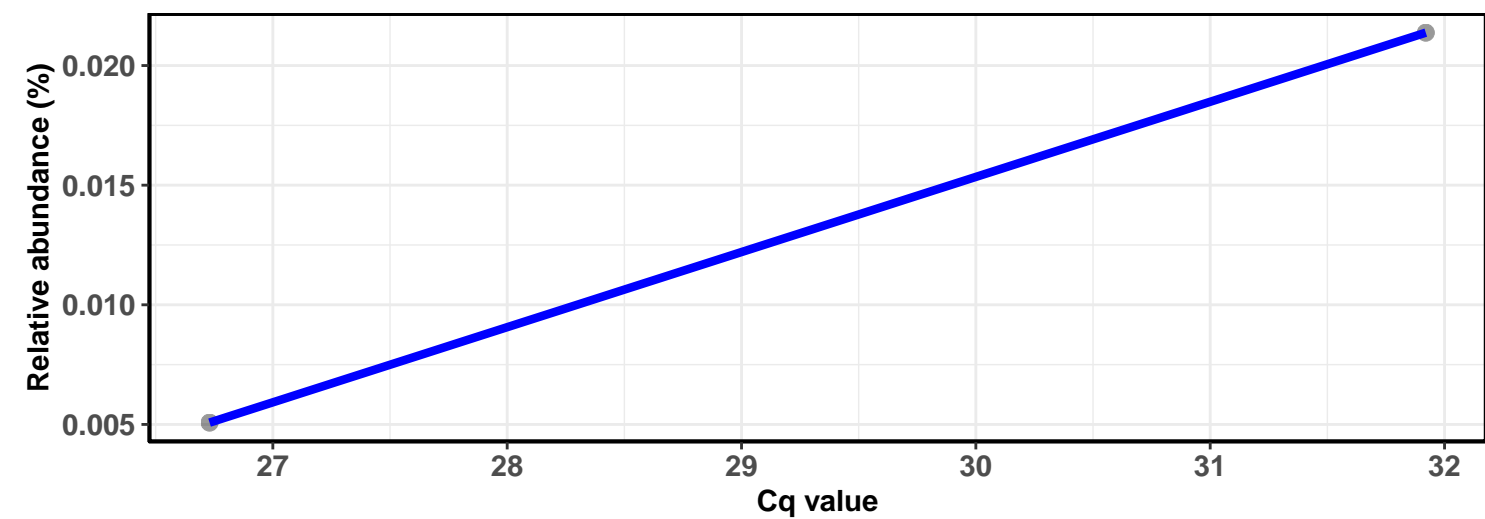
Correlation within the sample type: REF-DIM



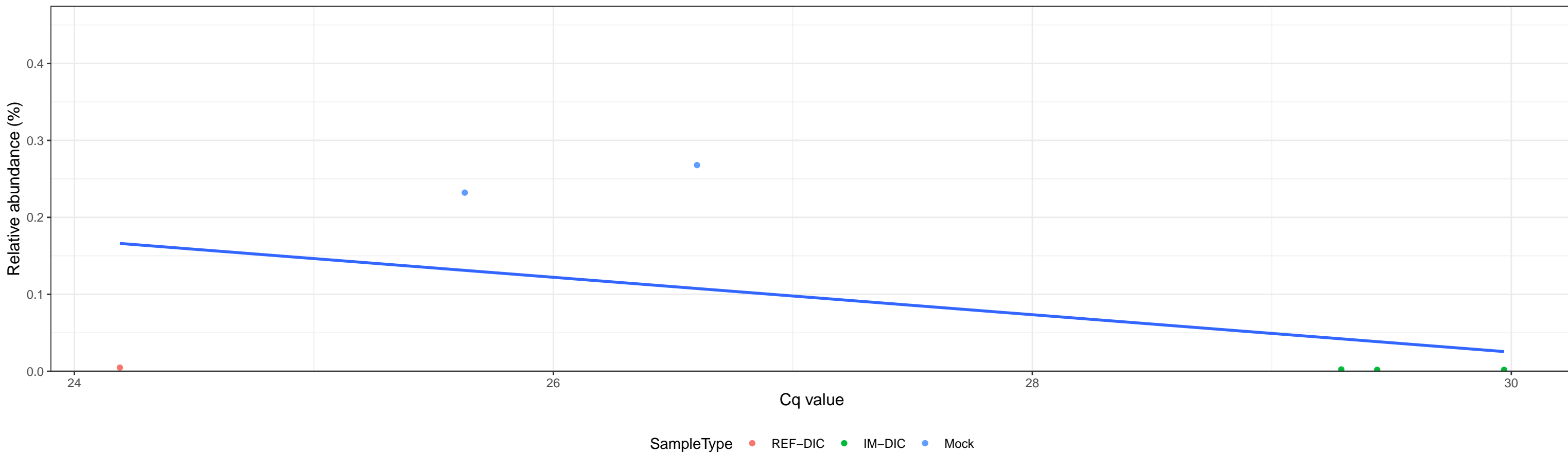
Correlation within the sample type: IM-DIC



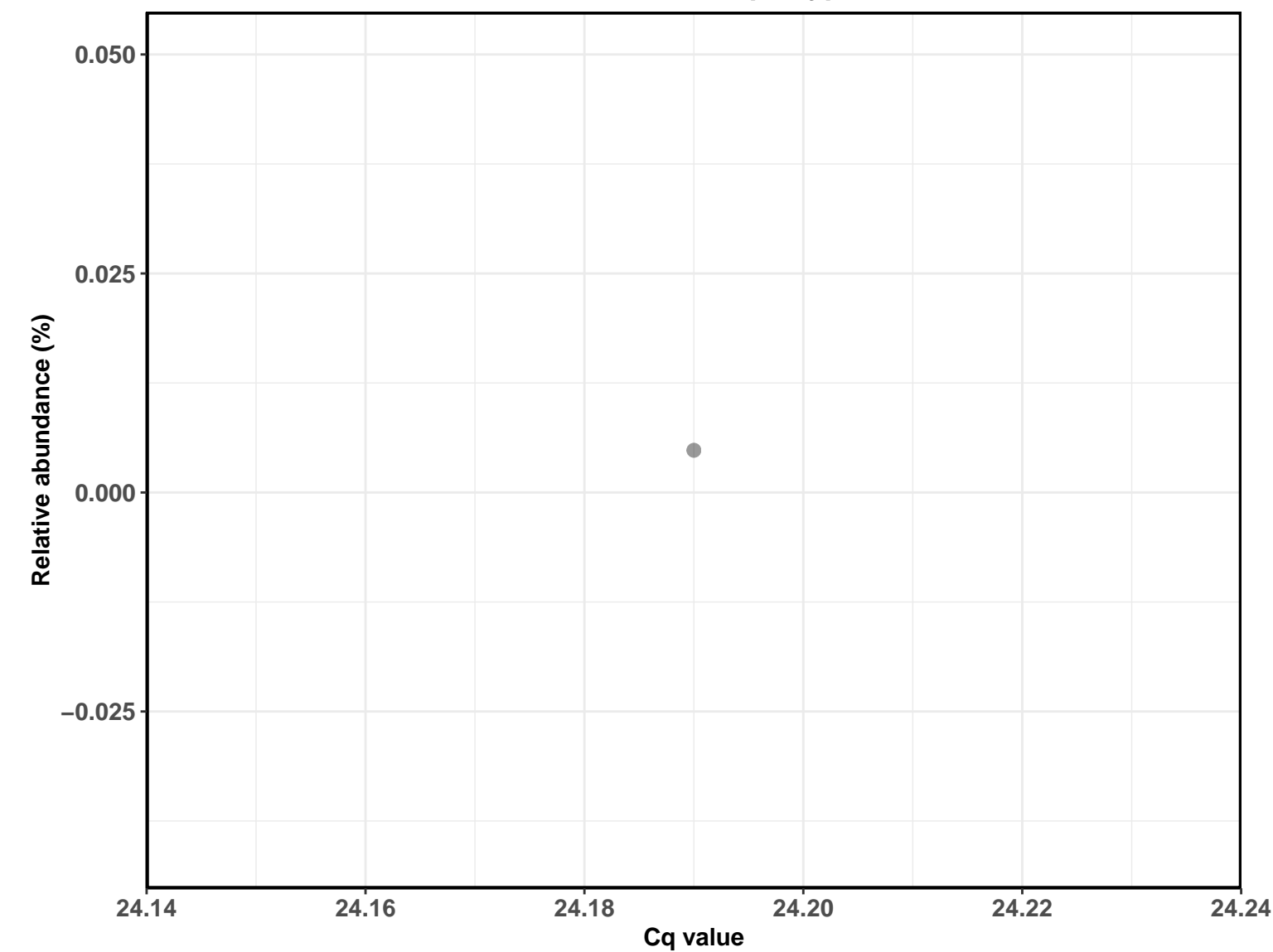
Correlation within the sample type: IM-DIM



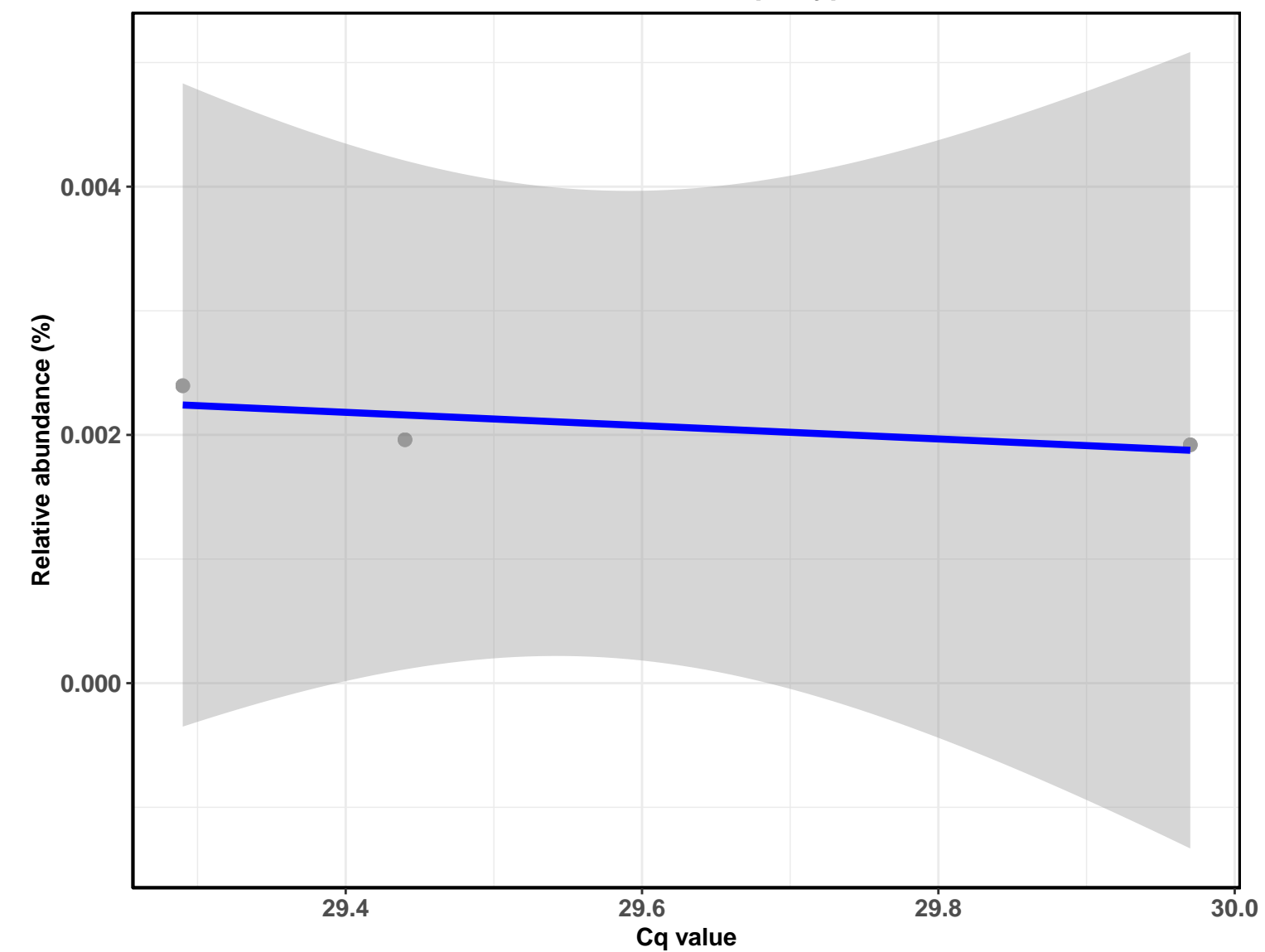
Correlation with all samples



Correlation within the sample type: REF-DIC

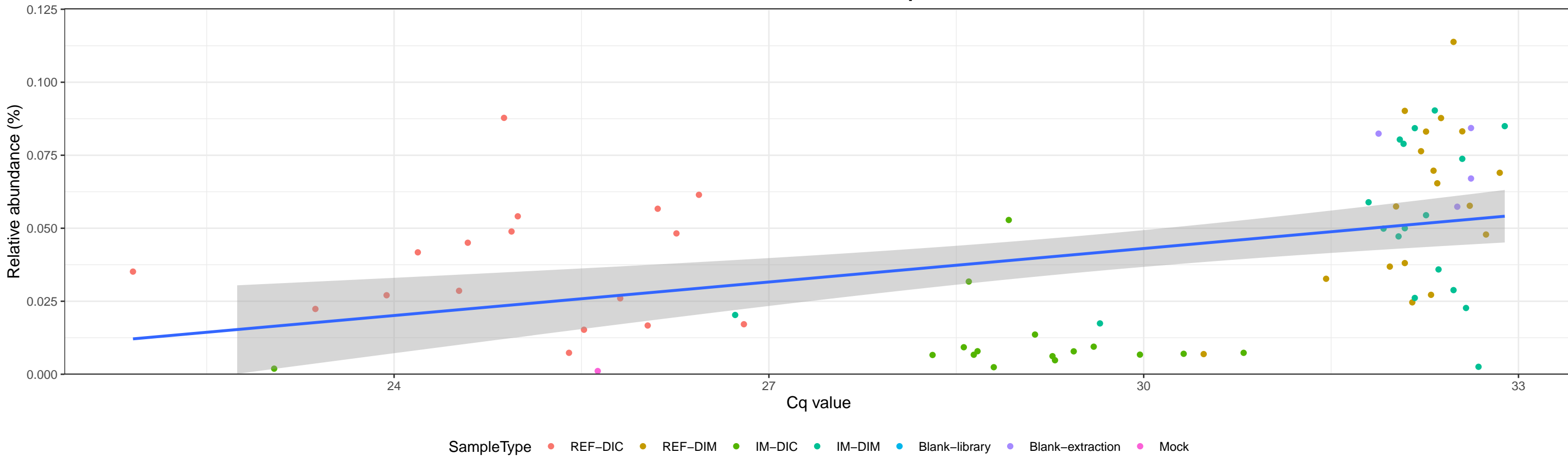


Correlation within the sample type: IM-DIC



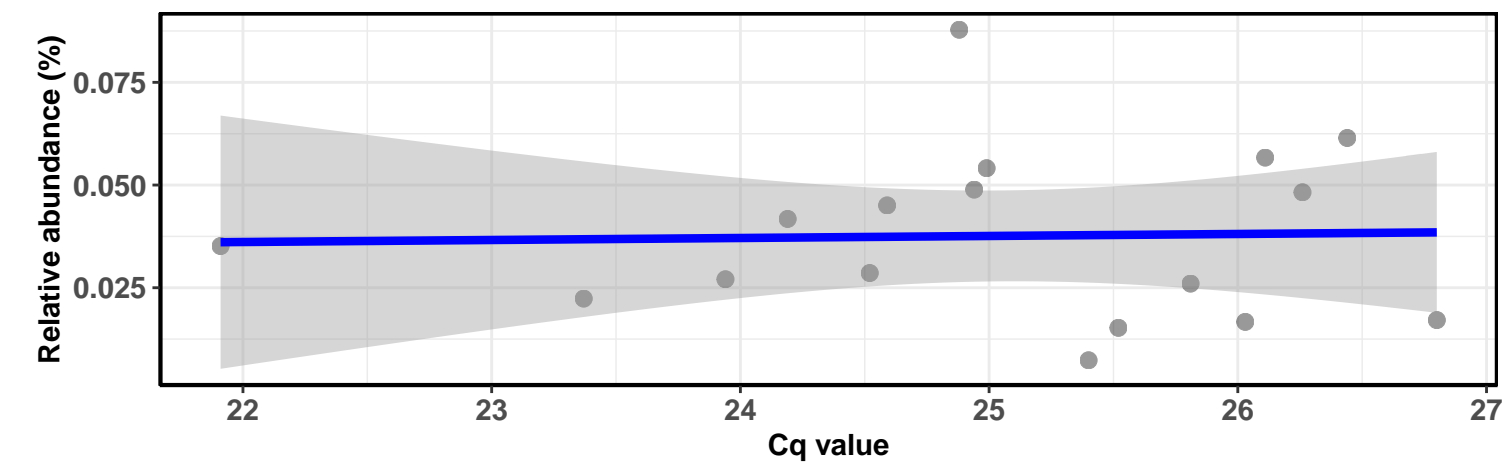
D\_0\_\_Bacteria; D\_1\_\_Proteobacteria; D\_2\_\_Gammaproteobacteria; D\_3\_\_Pseudomonadales; D\_4\_\_Pseudomonadaceae; D\_5\_\_Pseudomonas

Correlation with all samples



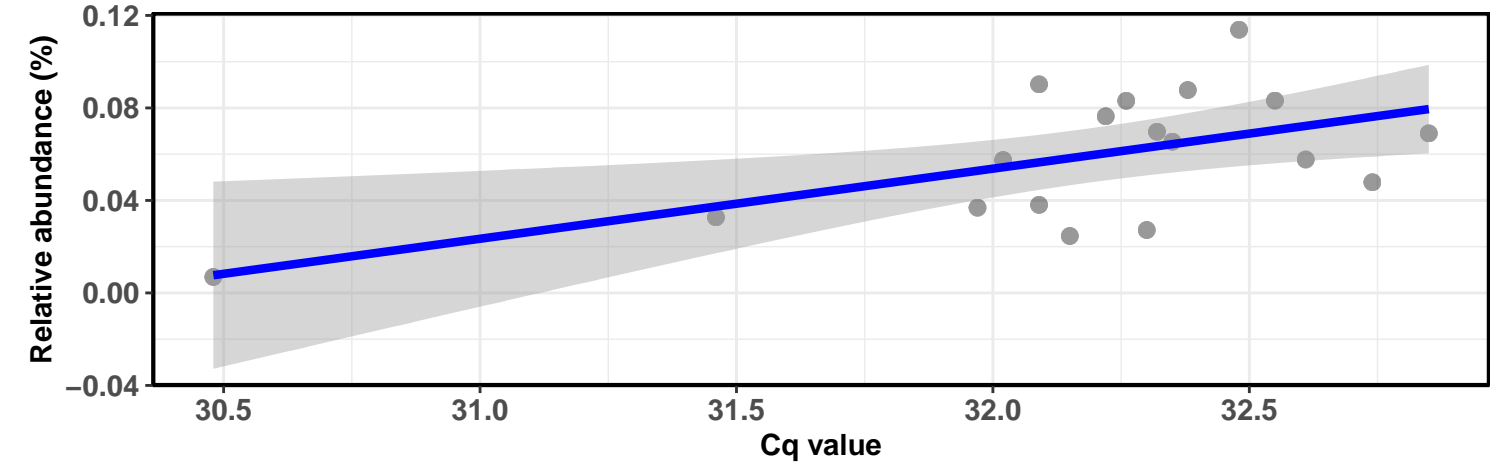
Correlation within the sample type: REF-DIC

$\log_e(S) = 6.667$ ,  $p = 0.889$ ,  $\rho_{\text{Spearman}} = 0.037$ ,  $\text{CI}_{95\%} [-0.452, 0.508]$ ,  $n = 17$



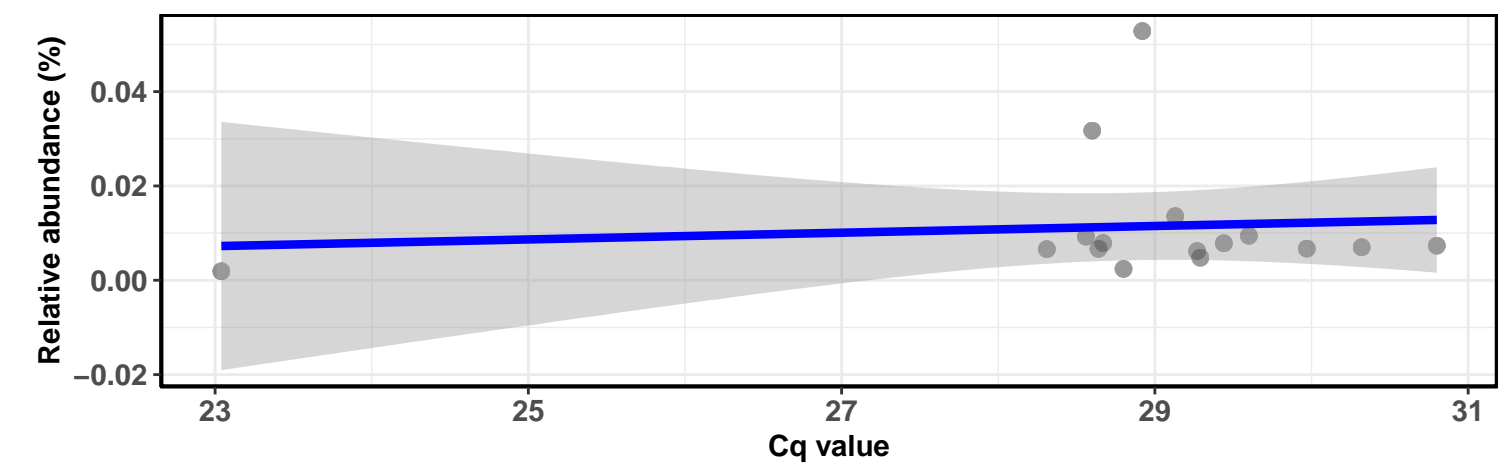
Correlation within the sample type: REF-DIM

$\log_e(S) = 6.232$ ,  $p = 0.046$ ,  $\rho_{\text{Spearman}} = 0.475$ ,  $\text{CI}_{95\%} [0.010, 0.771]$ ,  $n = 18$



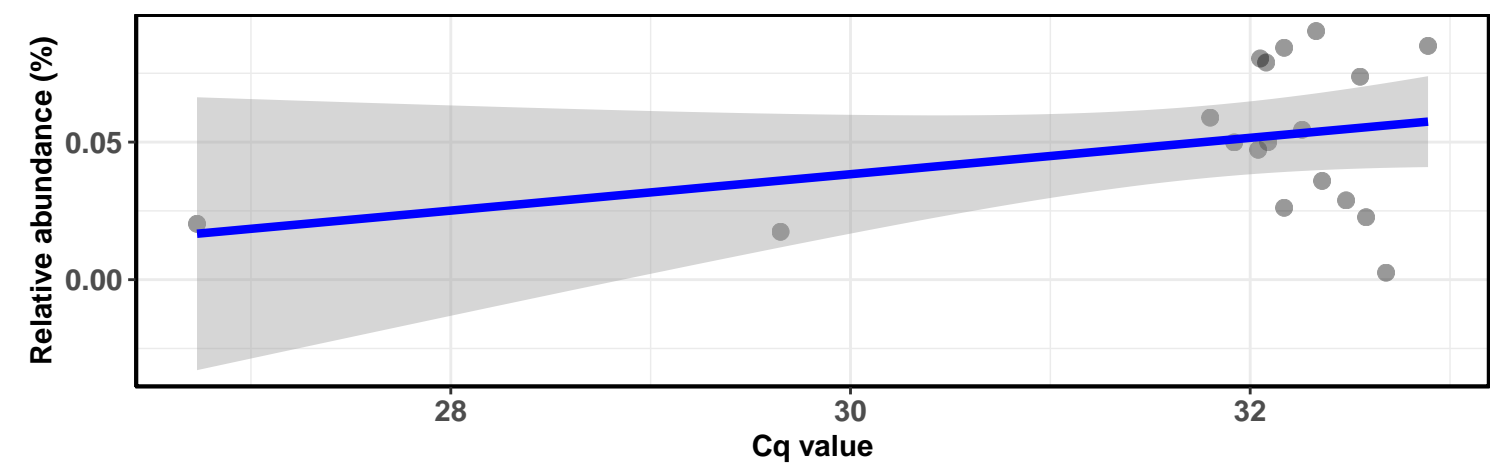
Correlation within the sample type: IM-DIC

$\log_e(S) = 6.400$ ,  $p = 0.672$ ,  $\rho_{\text{Spearman}} = 0.115$ ,  $\text{CI}_{95\%} [-0.404, 0.578]$ ,  $n = 16$



Correlation within the sample type: IM-DIM

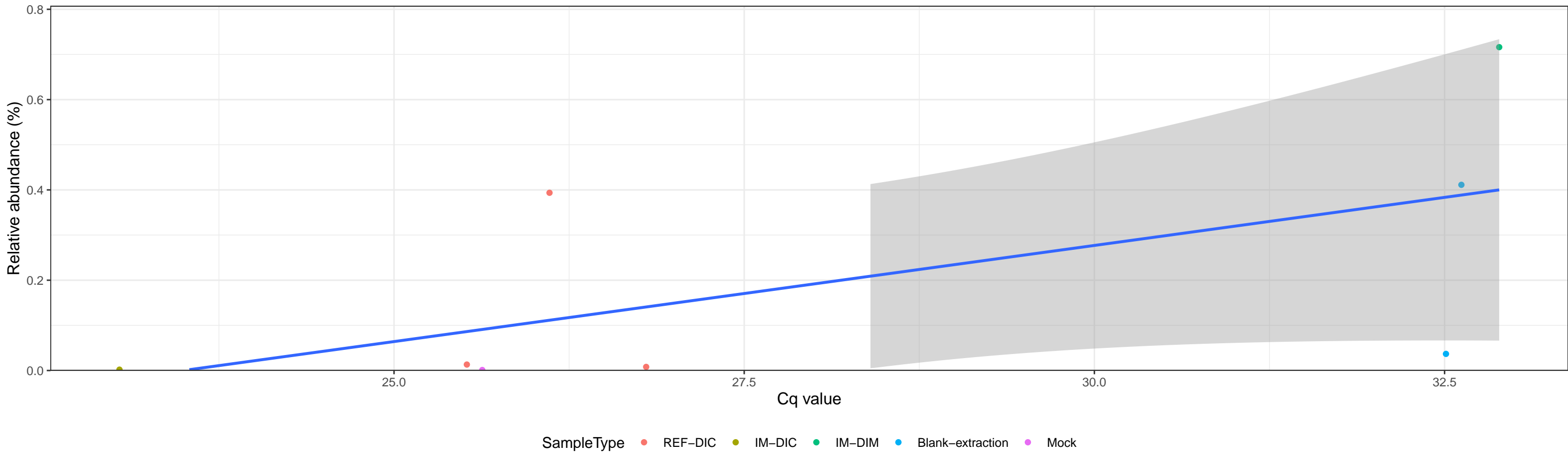
$\log_e(S) = 6.753$ ,  $p = 0.648$ ,  $\rho_{\text{Spearman}} = 0.116$ ,  $\text{CI}_{95\%} [-0.371, 0.553]$ ,  $n = 18$



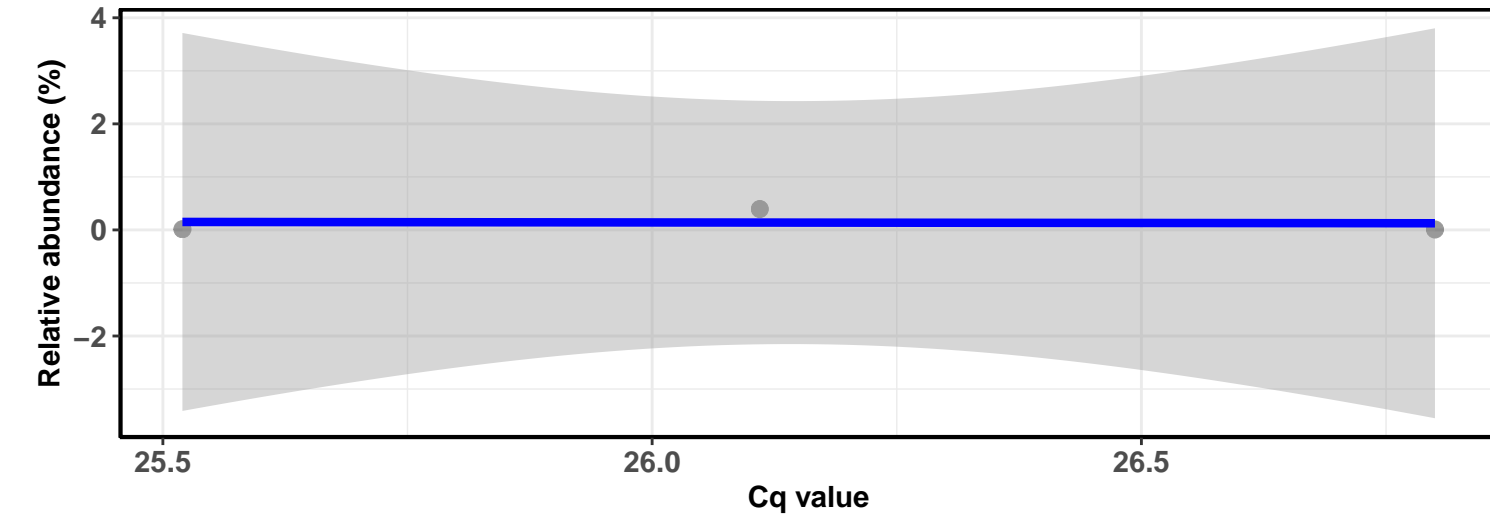


D\_0\_\_Bacteria; D\_1\_\_Bacteroidetes; D\_2\_\_Bacteroidia; D\_3\_\_Cytophagales; D\_4\_\_Hymenobacteraceae; D\_5\_\_Hymenobacter; D\_6\_\_uncultured bacterium

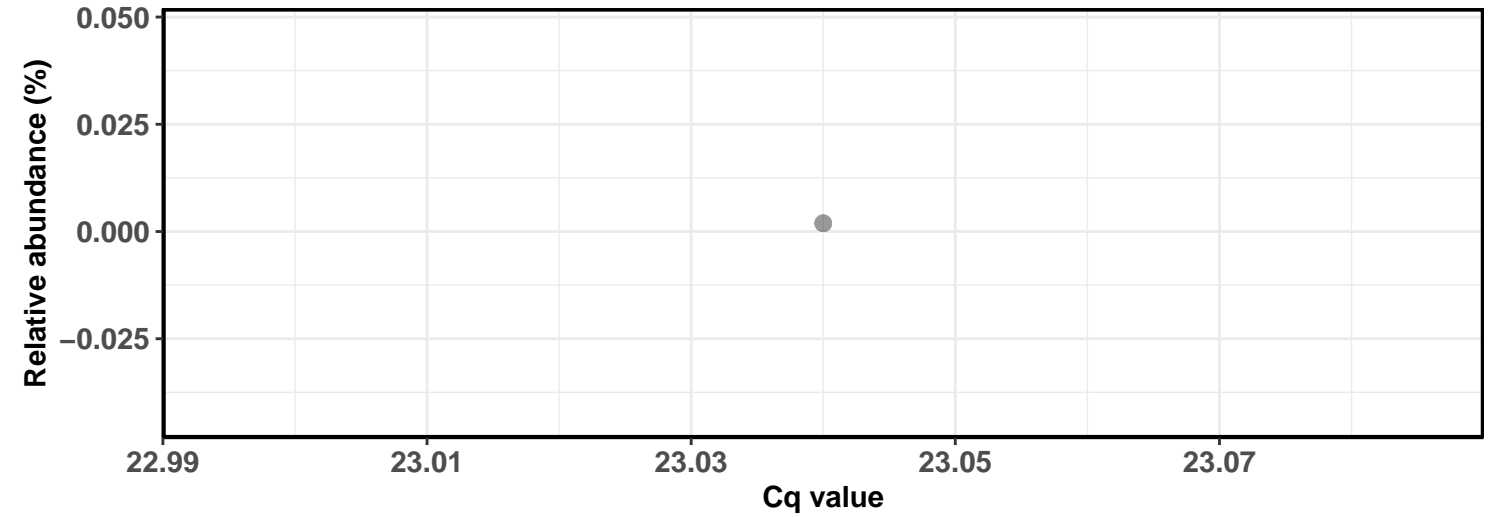
Correlation with all samples



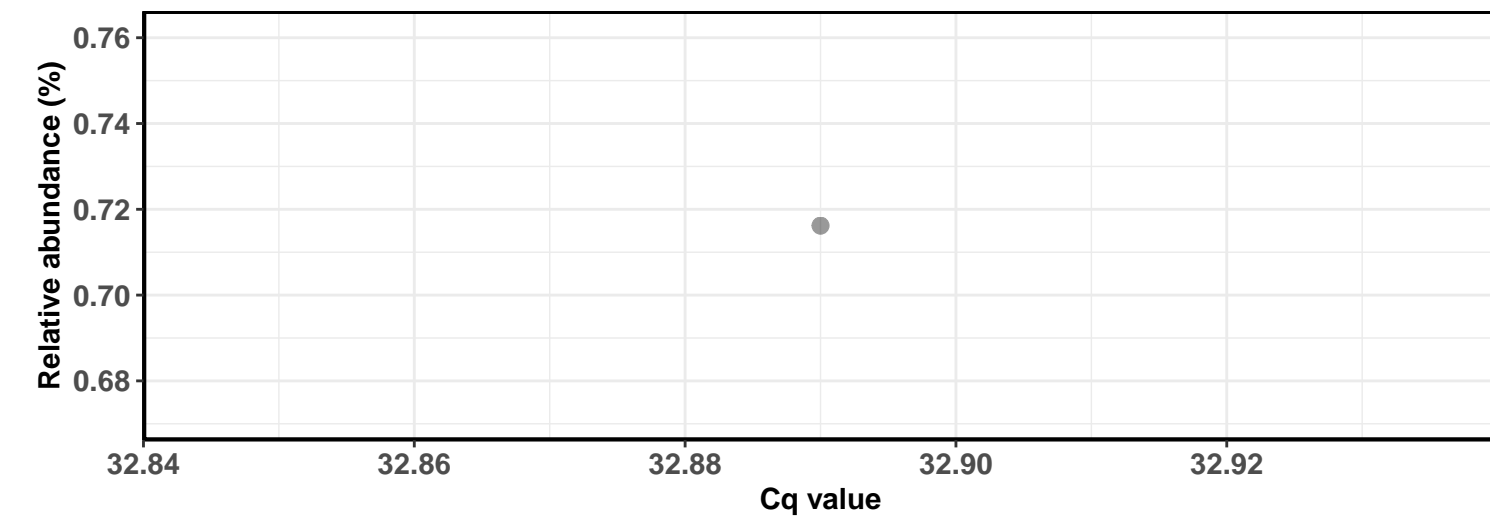
Correlation within the sample type: REF-DIC



Correlation within the sample type: IM-DIC

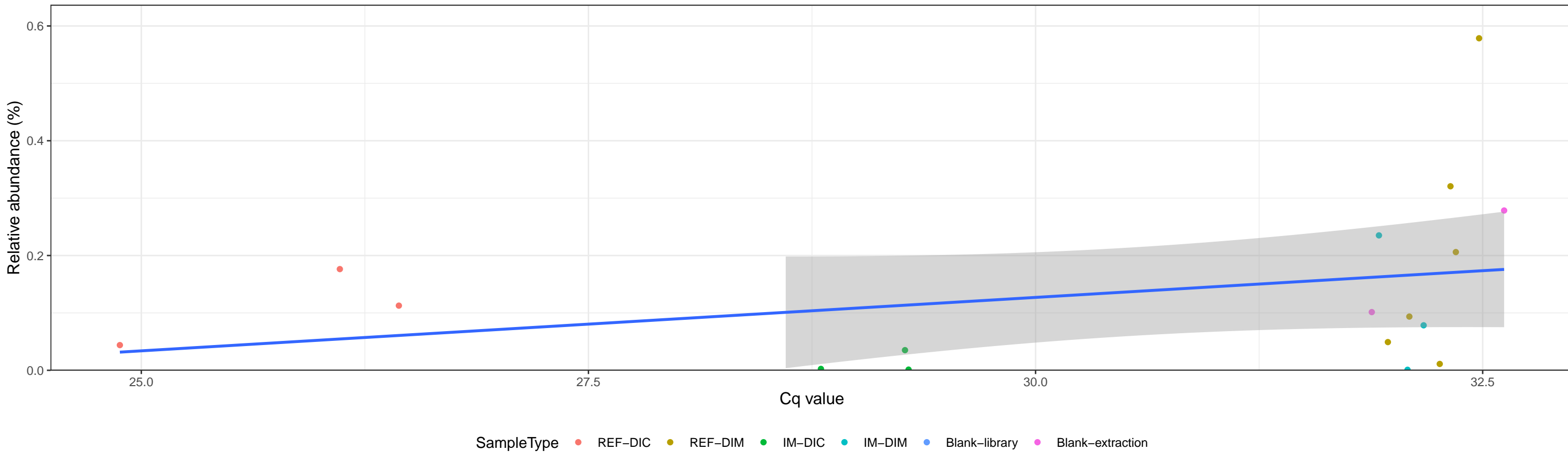


Correlation within the sample type: IM-DIM

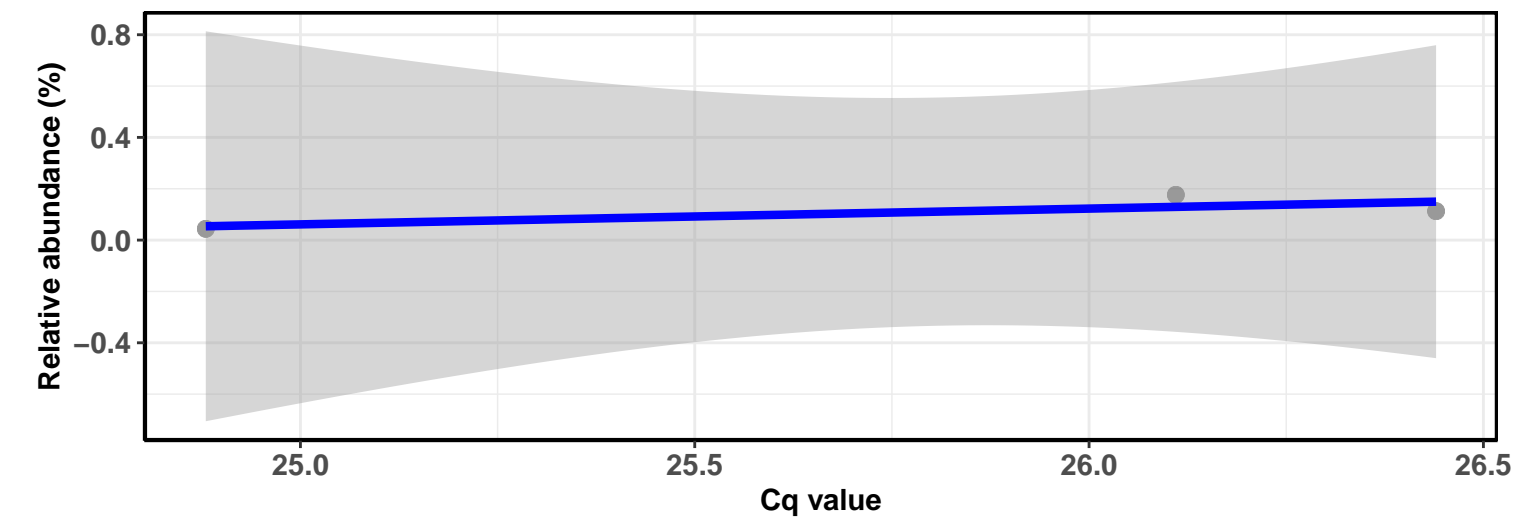


D\_0\_\_Bacteria; D\_1\_\_Proteobacteria; D\_2\_\_Alphaproteobacteria; D\_3\_\_Caulobacterales; D\_4\_\_Caulobacteraceae; D\_5\_\_Brevundimonas; Ambiguous\_taxa

Correlation with all samples

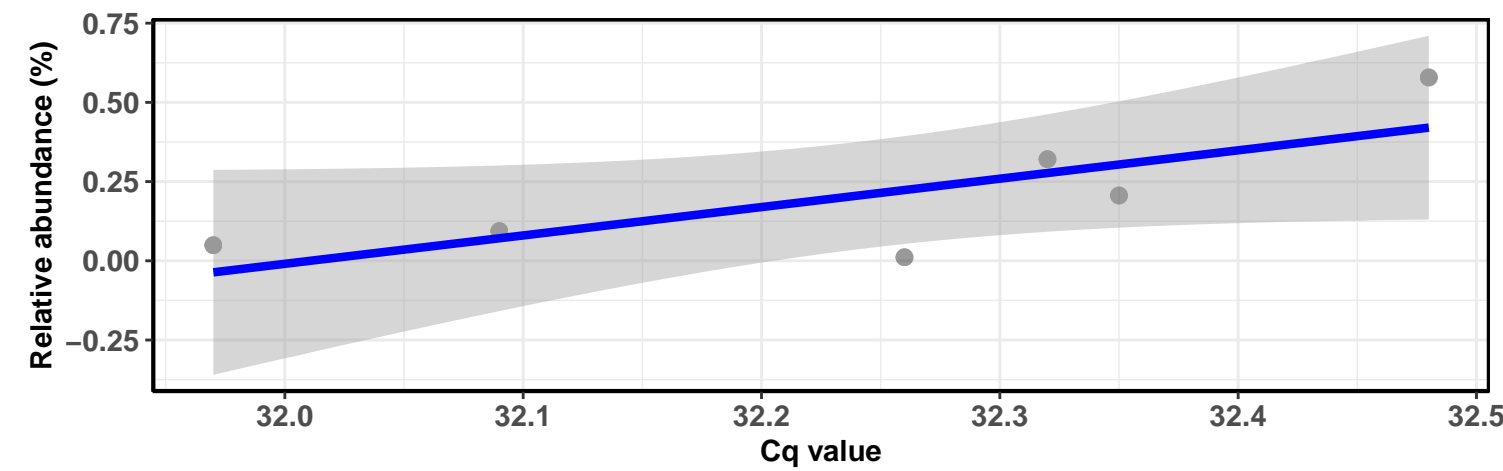


Correlation within the sample type: REF-DIC

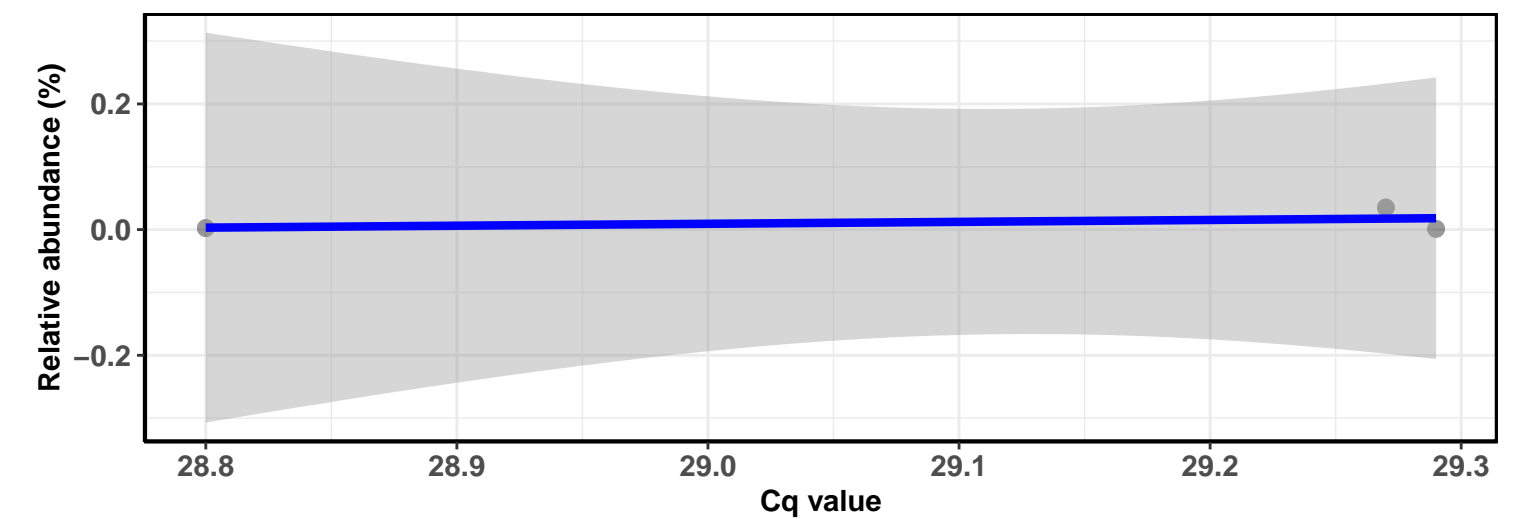


Correlation within the sample type: REF-DIM

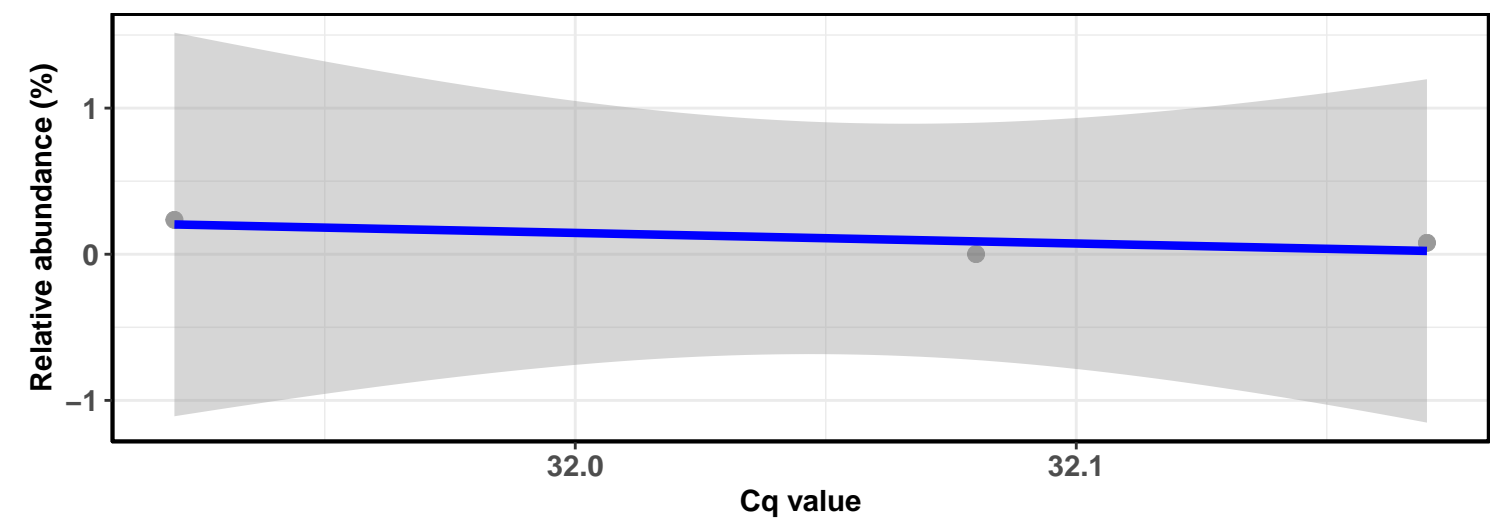
$\log_e(S) = 2.079$ ,  $p = 0.072$ ,  $\rho_{\text{Spearman}} = 0.771$ ,  $CI_{95\%} [-0.107, 0.974]$ ,  $n = 6$



Correlation within the sample type: IM-DIC

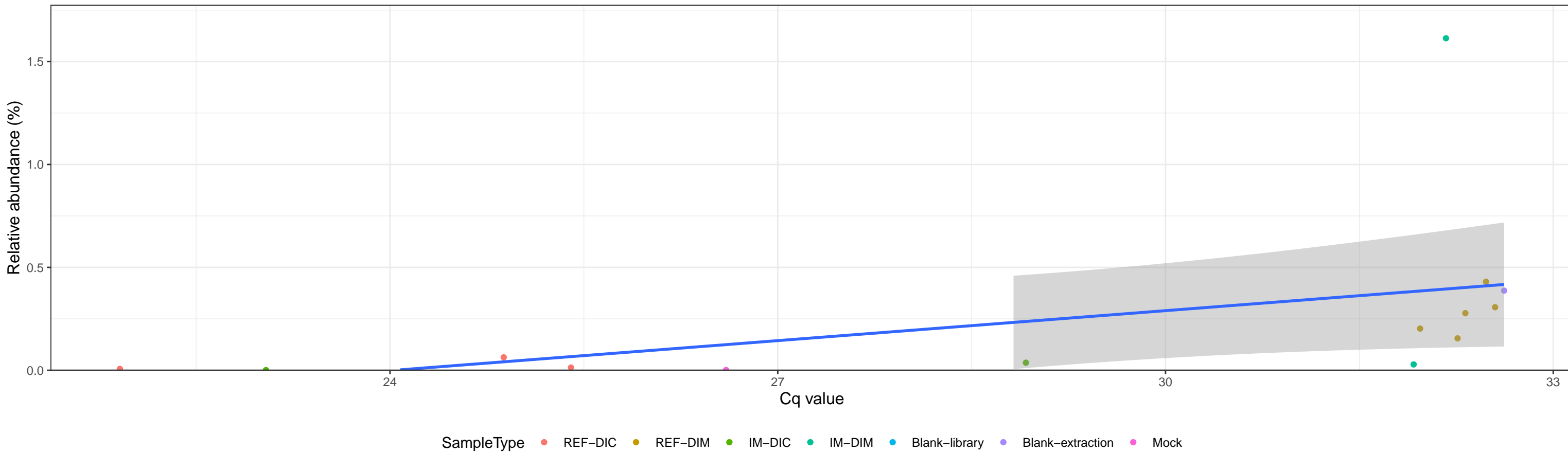


Correlation within the sample type: IM-DIM

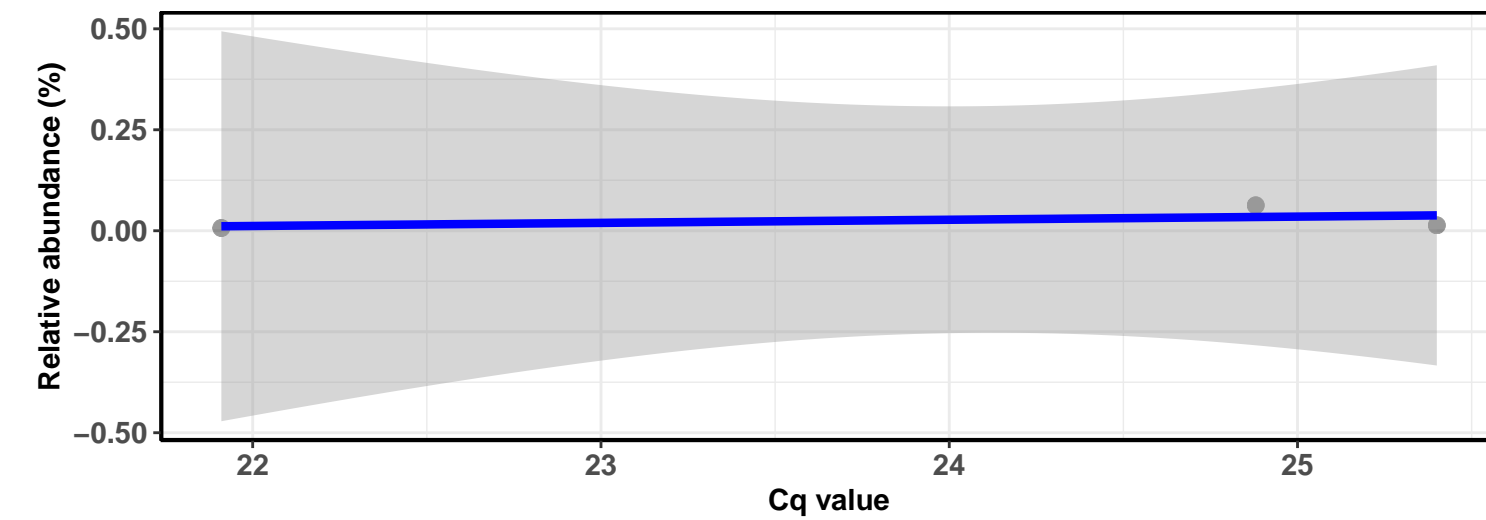


D\_0\_\_Bacteria; D\_1\_\_Proteobacteria; D\_2\_\_Alphaproteobacteria; D\_3\_\_Caulobacterales; D\_4\_\_Caulobacteraceae; D\_5\_\_Brevundimonas; Ambiguous\_taxa

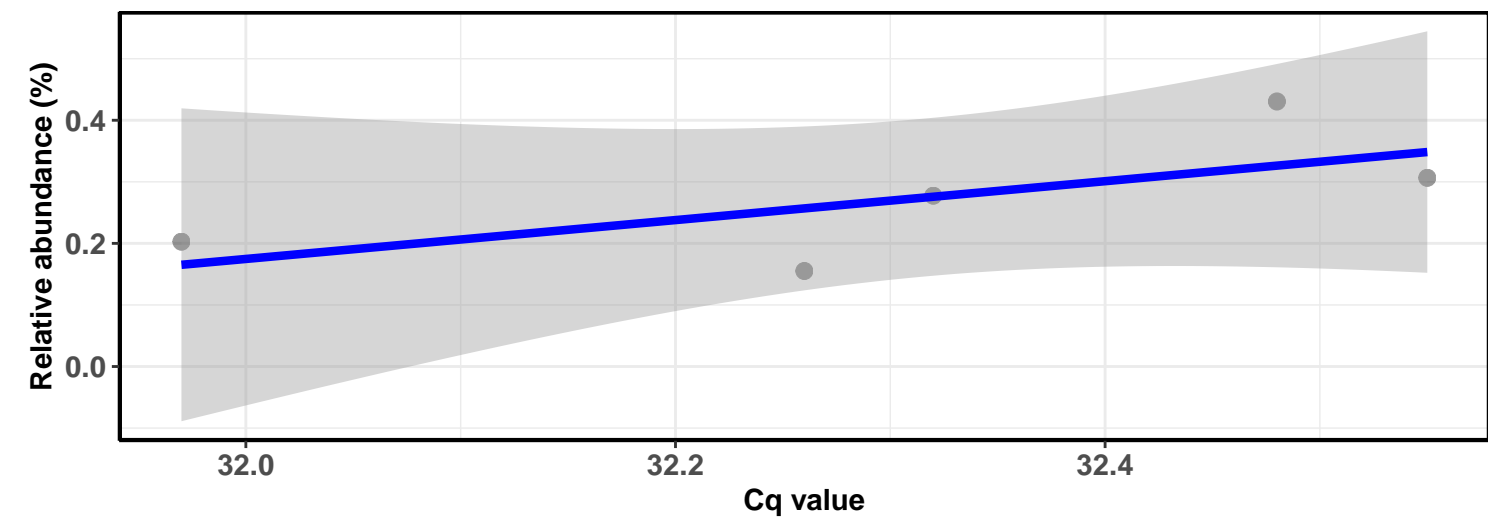
Correlation with all samples



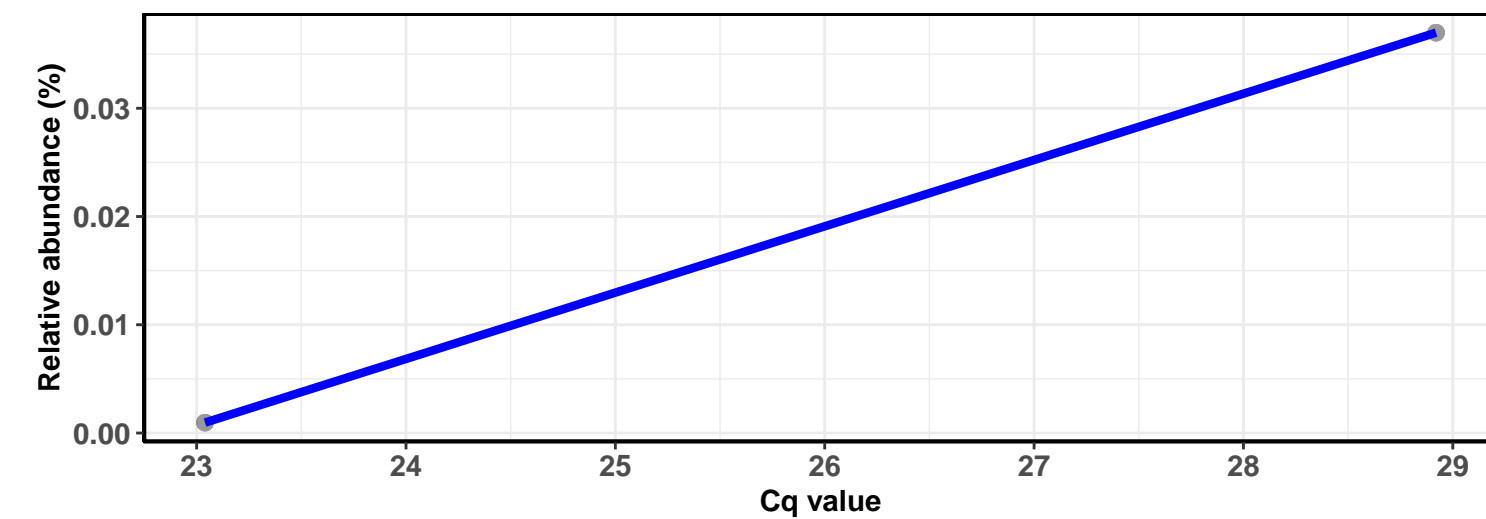
Correlation within the sample type: REF-DIC



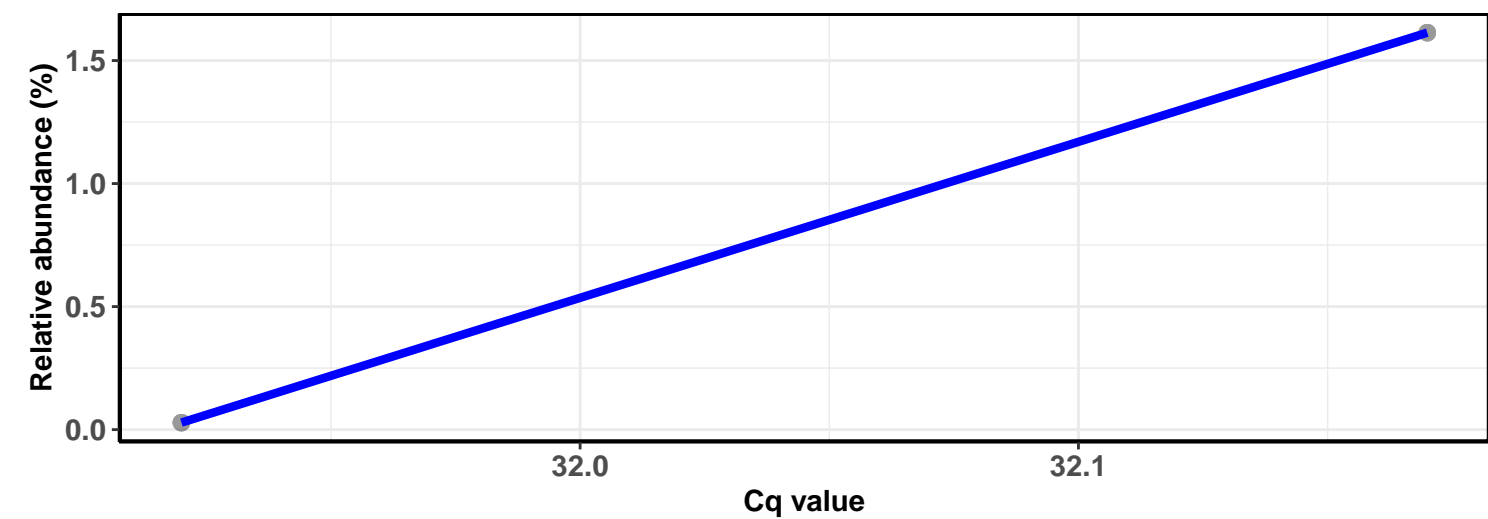
Correlation within the sample type: REF-DIM



Correlation within the sample type: IM-DIC

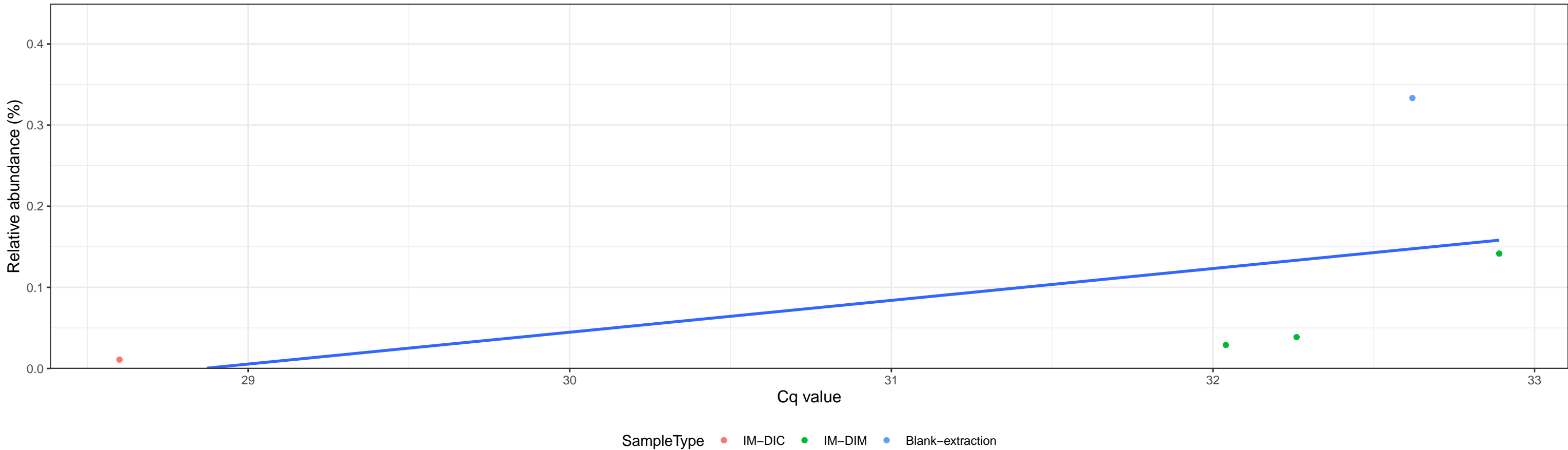


Correlation within the sample type: IM-DIM

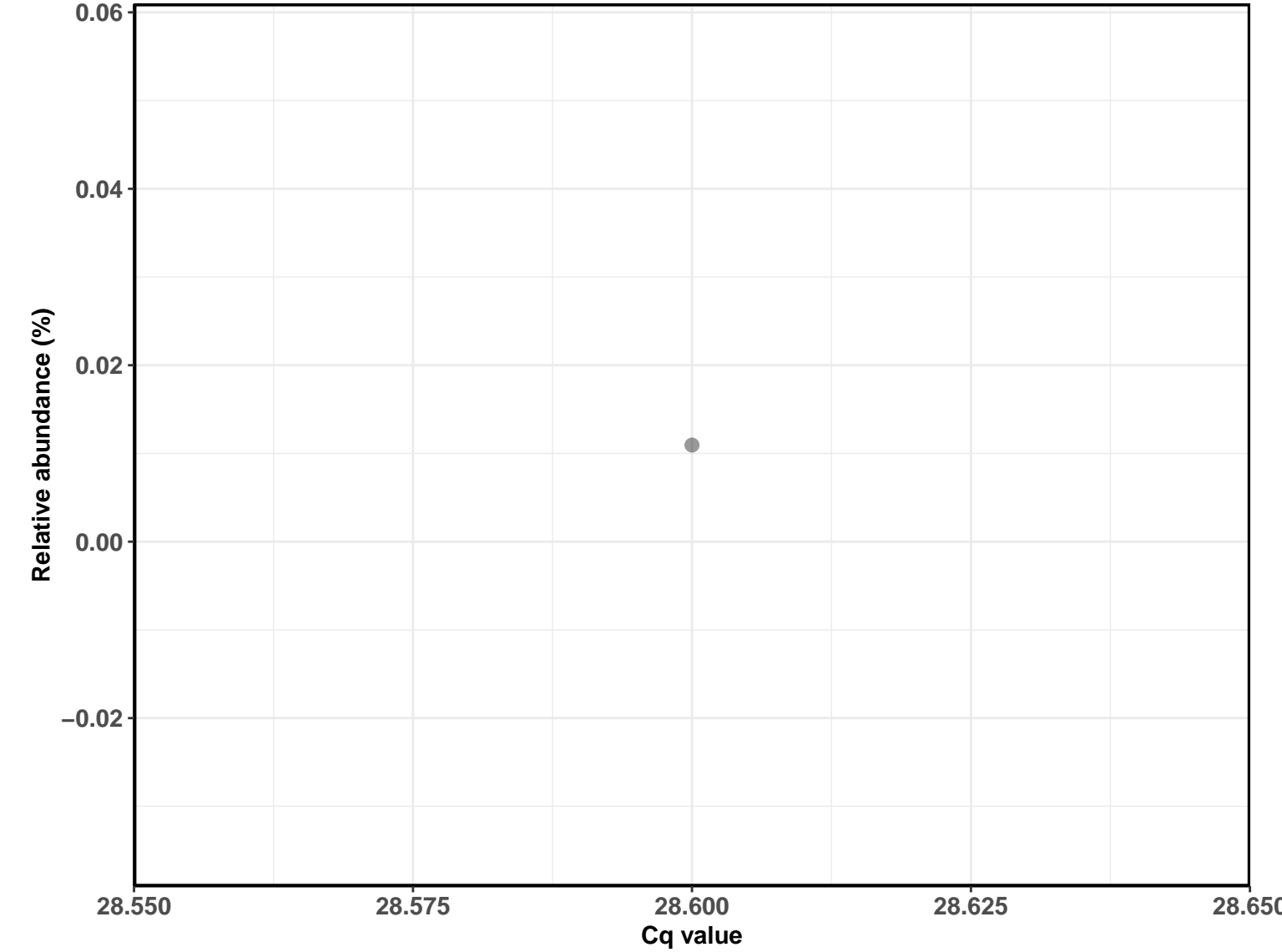


D\_0\_\_Bacteria; D\_1\_\_Bacteroidetes; D\_2\_\_Bacteroidia; D\_3\_\_Cytophagales; D\_4\_\_Hymenobacteraceae; D\_5\_\_Hymenobacter; D\_6\_\_uncultured bacterium

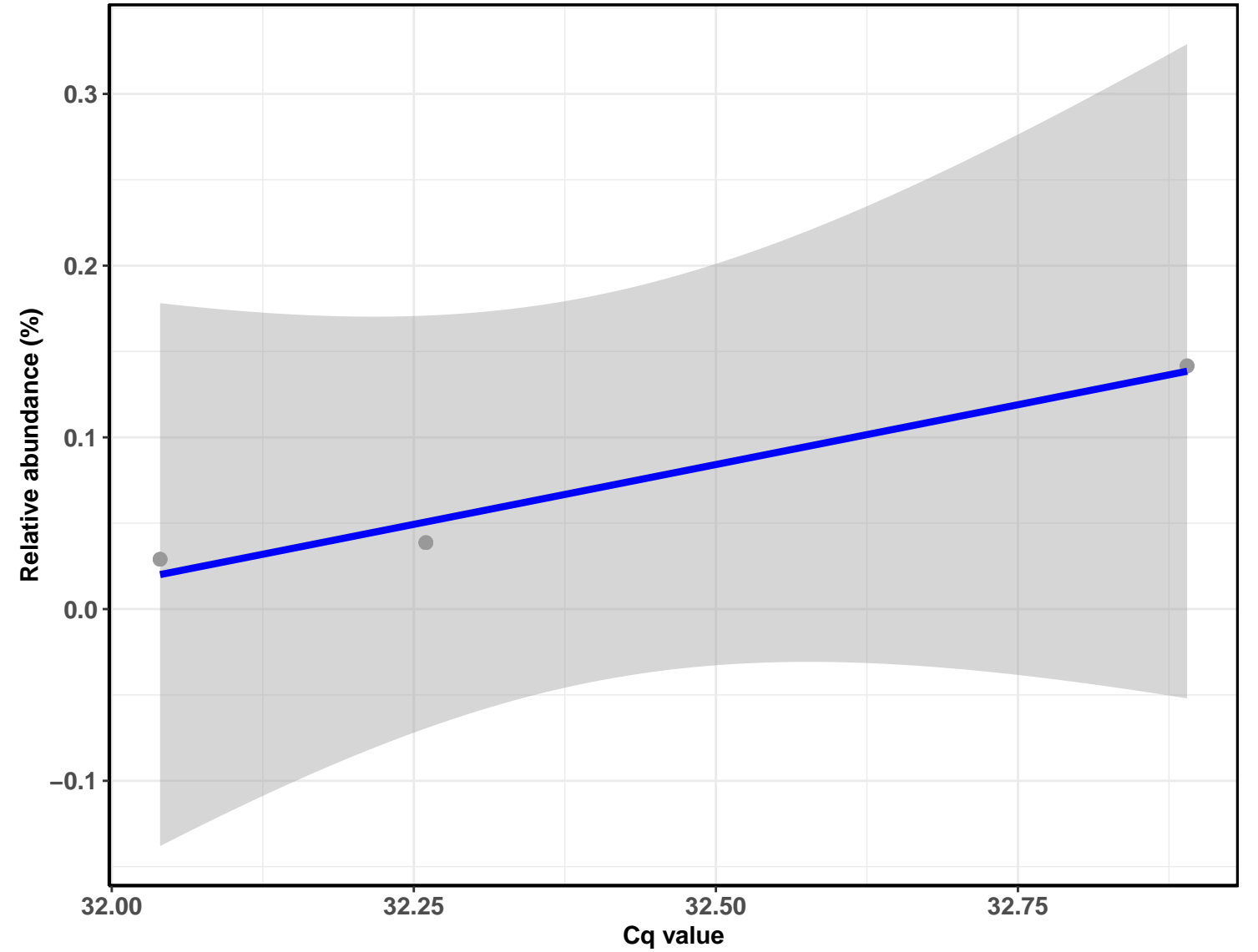
Correlation with all samples



Correlation within the sample type: IM-DIC

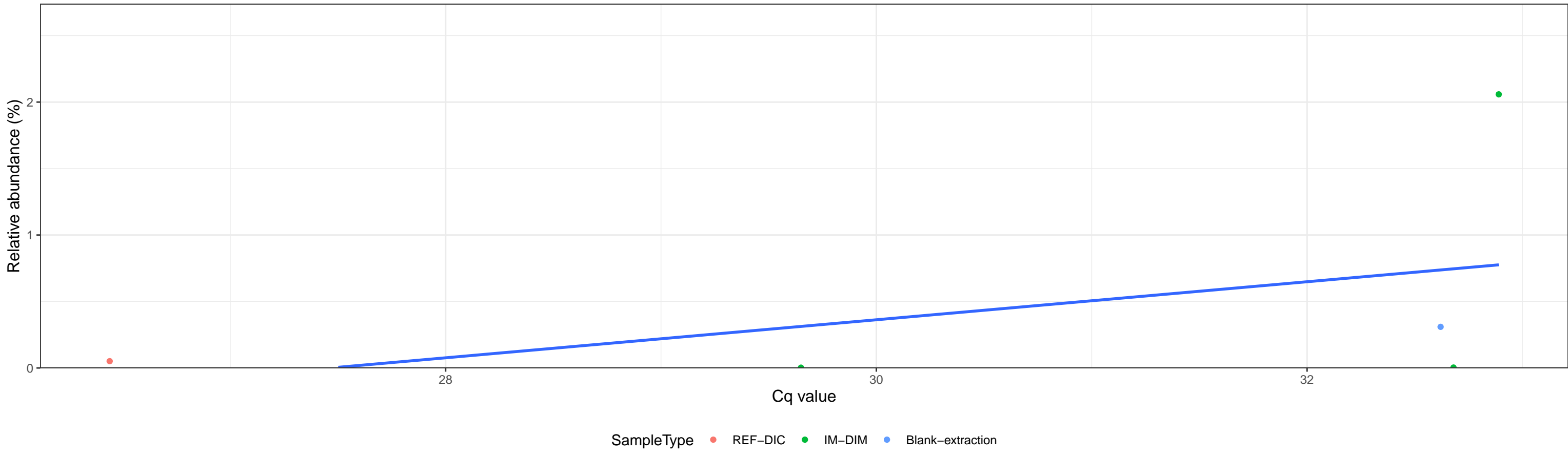


Correlation within the sample type: IM-DIM

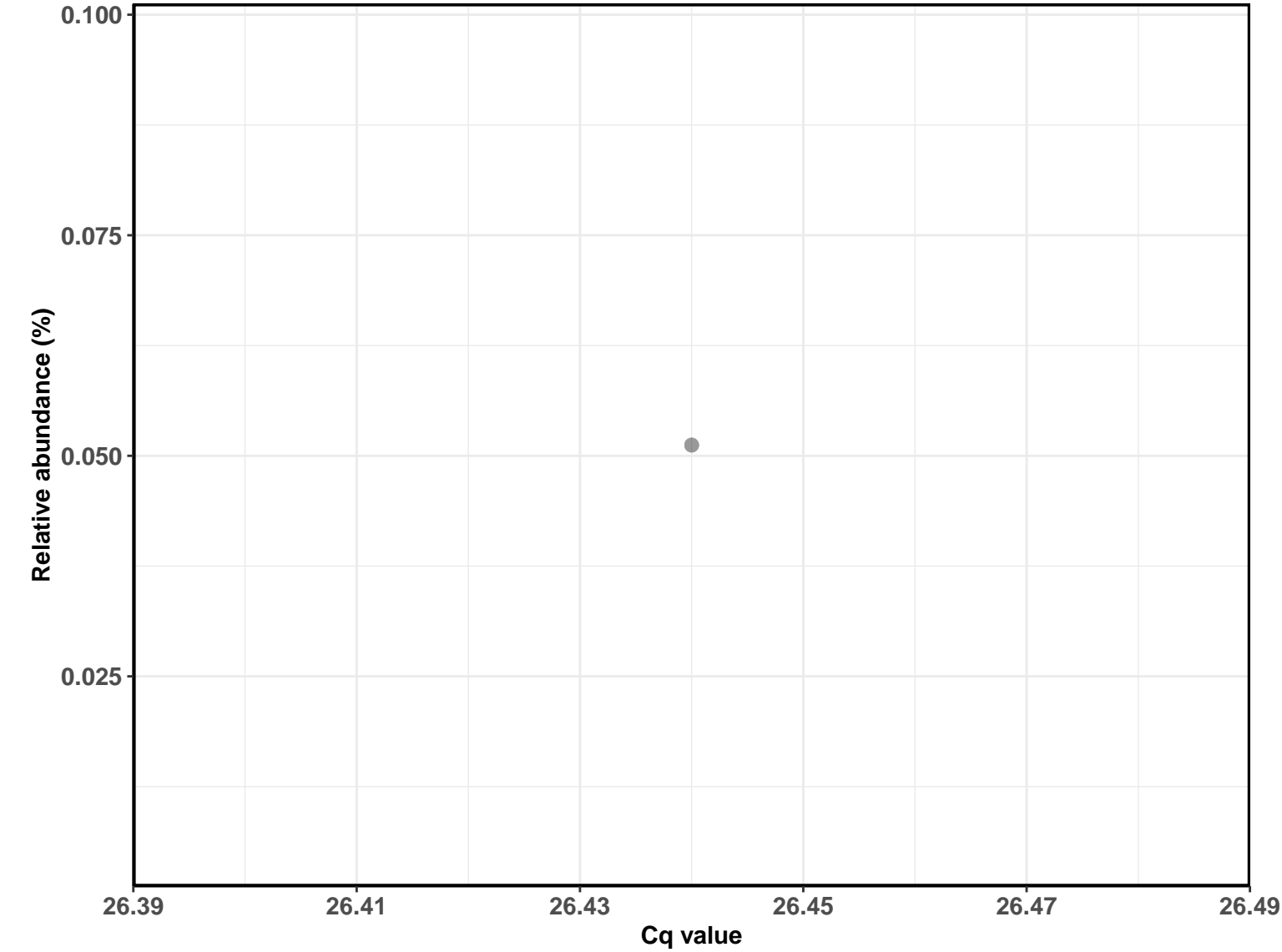


D\_0\_\_Bacteria; D\_1\_\_Bacteroidetes; D\_2\_\_Bacteroidia; D\_3\_\_Cytophagales; D\_4\_\_Hymenobacteraceae; D\_5\_\_Hymenobacter; D\_6\_\_uncultured bacterium

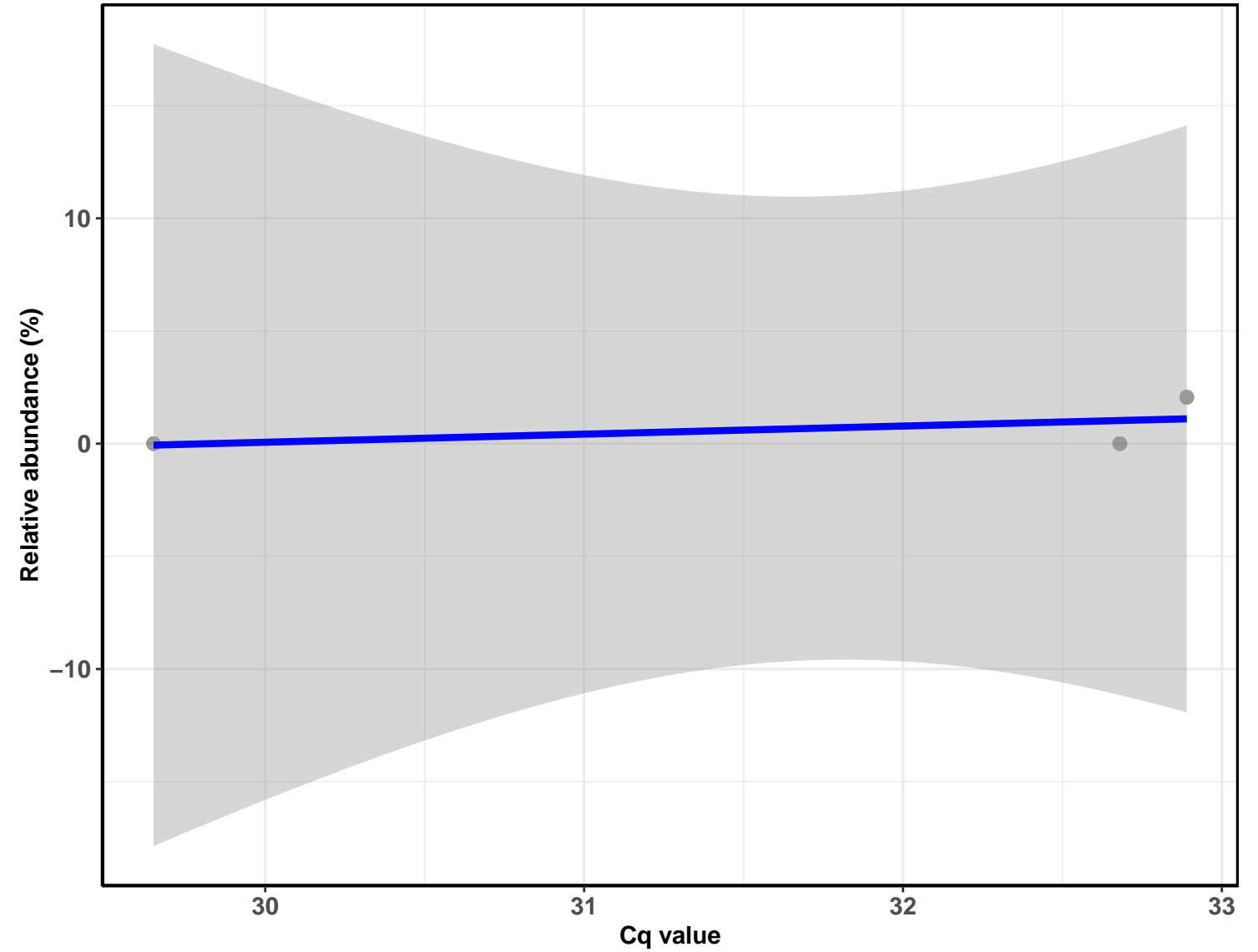
Correlation with all samples



Correlation within the sample type: REF-DIC

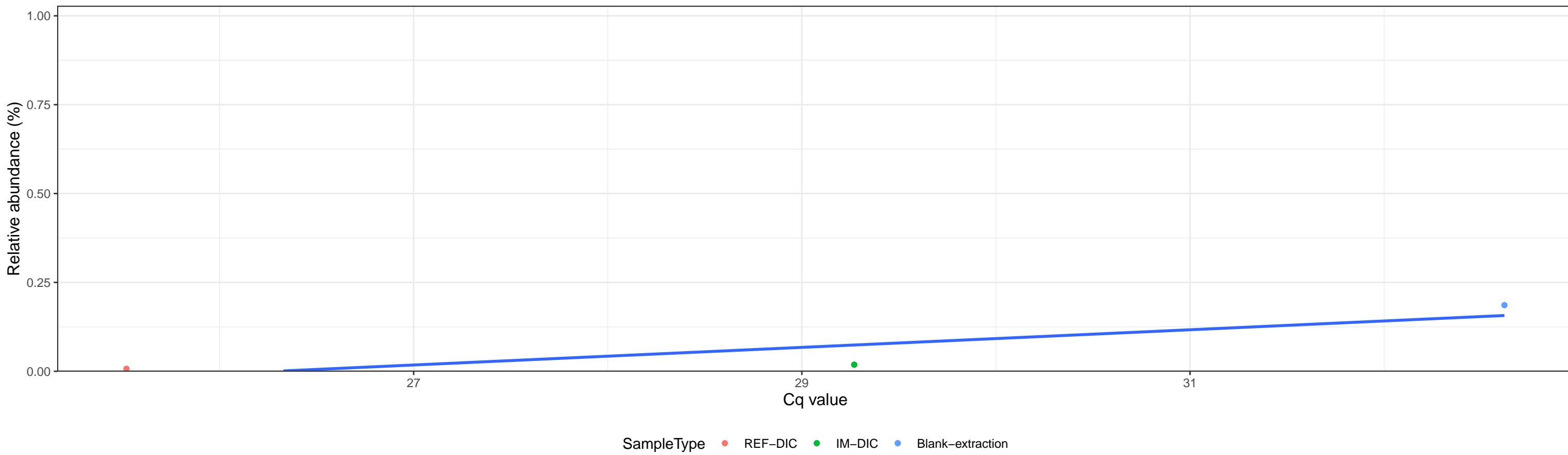


Correlation within the sample type: IM-DIM

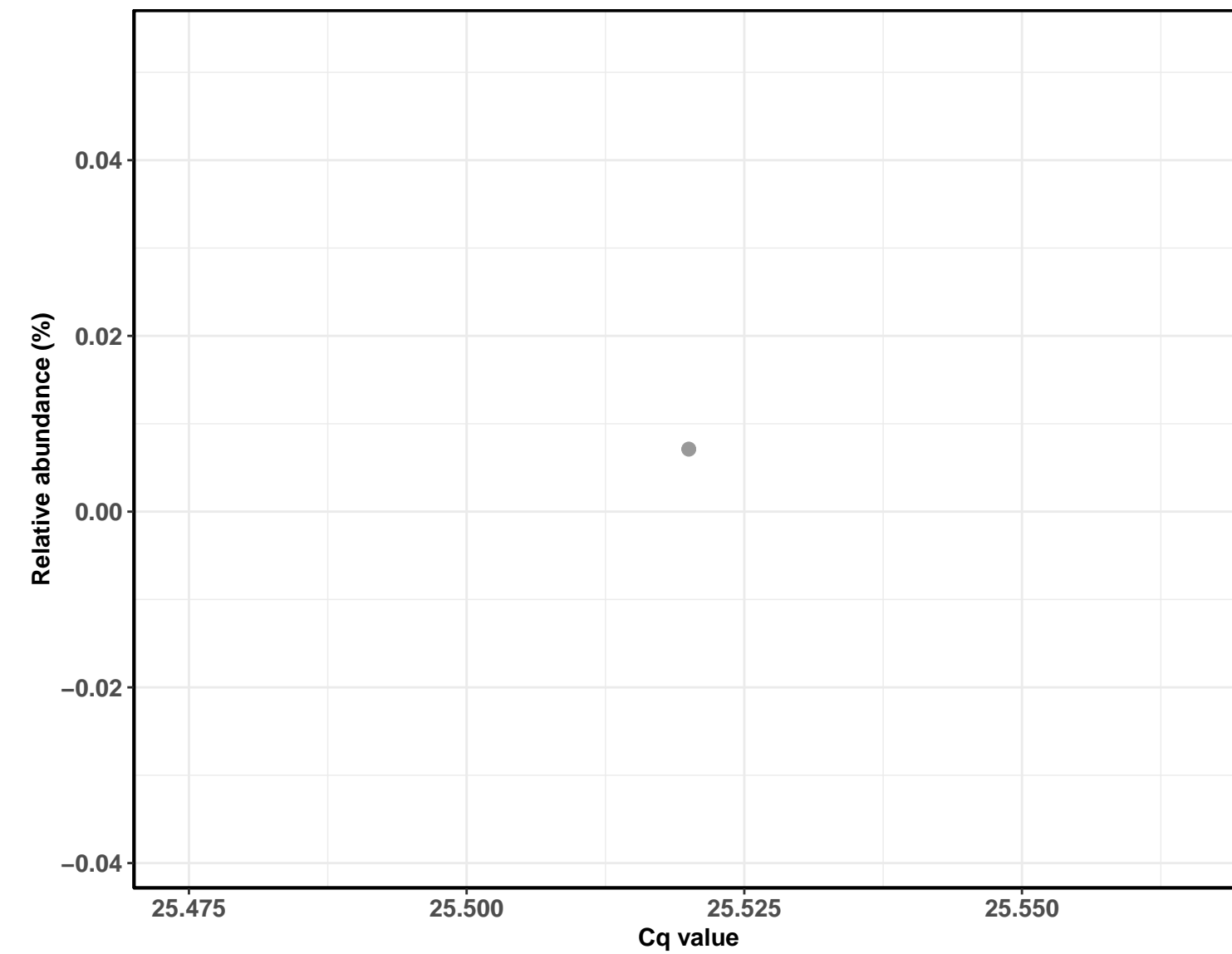


D\_0\_\_Bacteria; D\_1\_\_Actinobacteria; D\_2\_\_Actinobacteria; D\_3\_\_Micrococcales; D\_4\_\_Micrococcaceae; D\_5\_\_Micrococcus; Ambiguous\_taxa

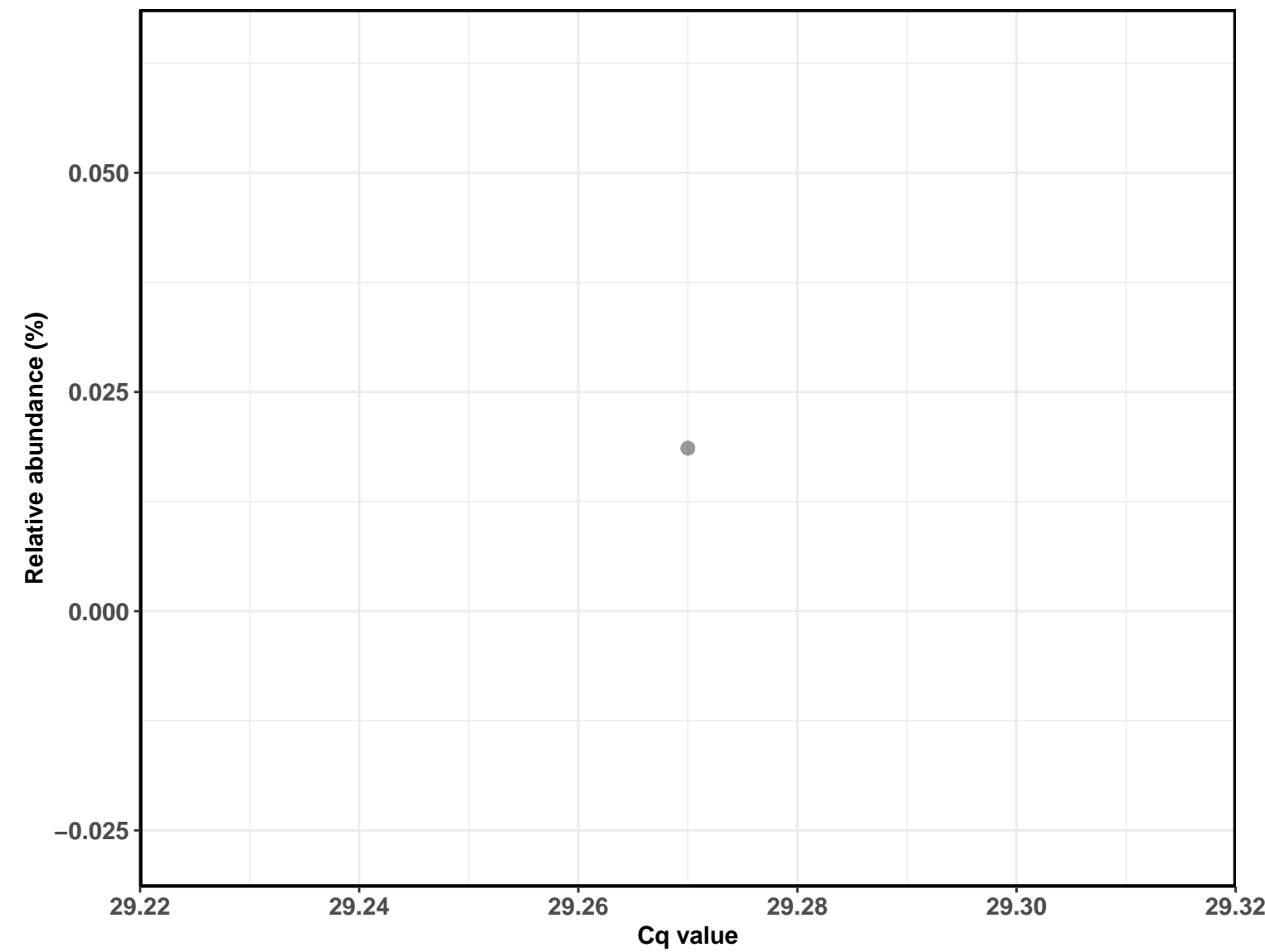
Correlation with all samples



Correlation within the sample type: REF-DIC

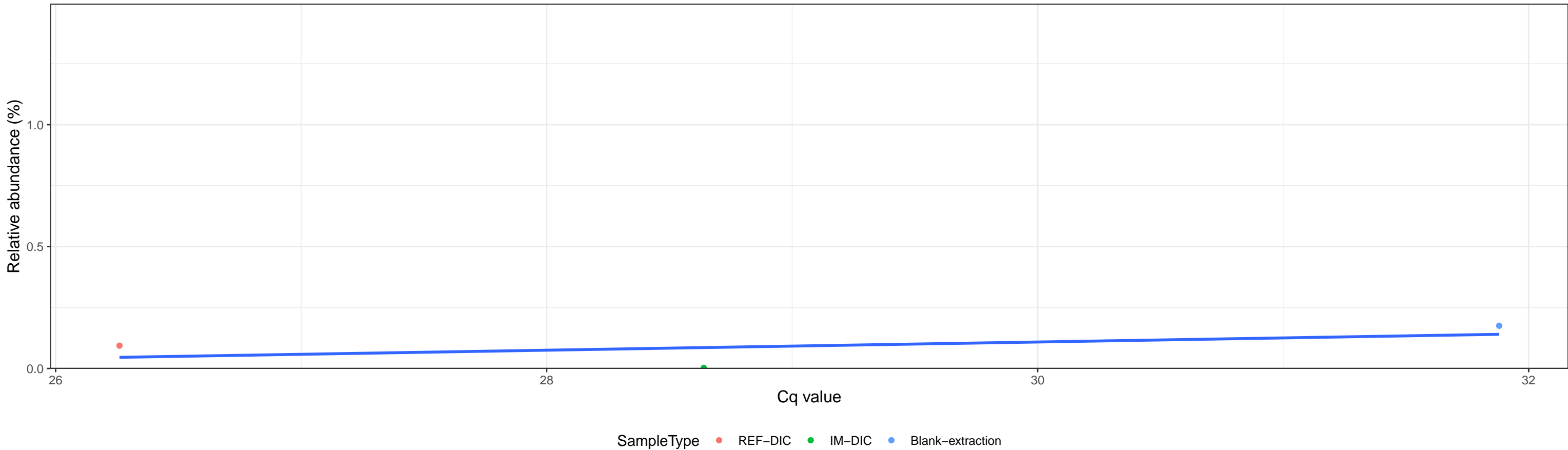


Correlation within the sample type: IM-DIC

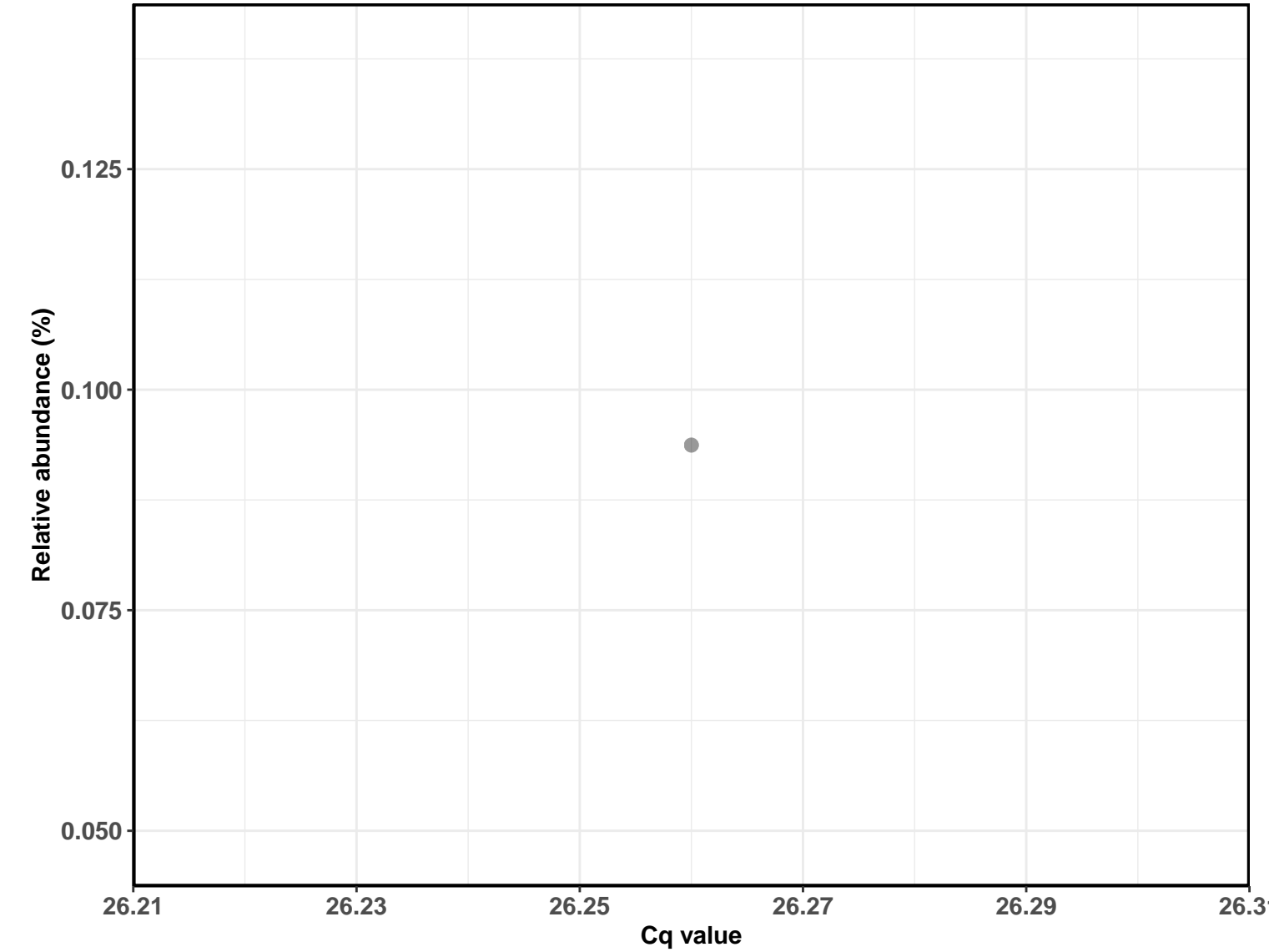


D\_0\_\_Bacteria; D\_1\_\_Bacteroidetes; D\_2\_\_Bacteroidia; D\_3\_\_Cytophagales; D\_4\_\_Hymenobacteraceae; D\_5\_\_Hymenobacter; D\_6\_\_uncultured bacterium

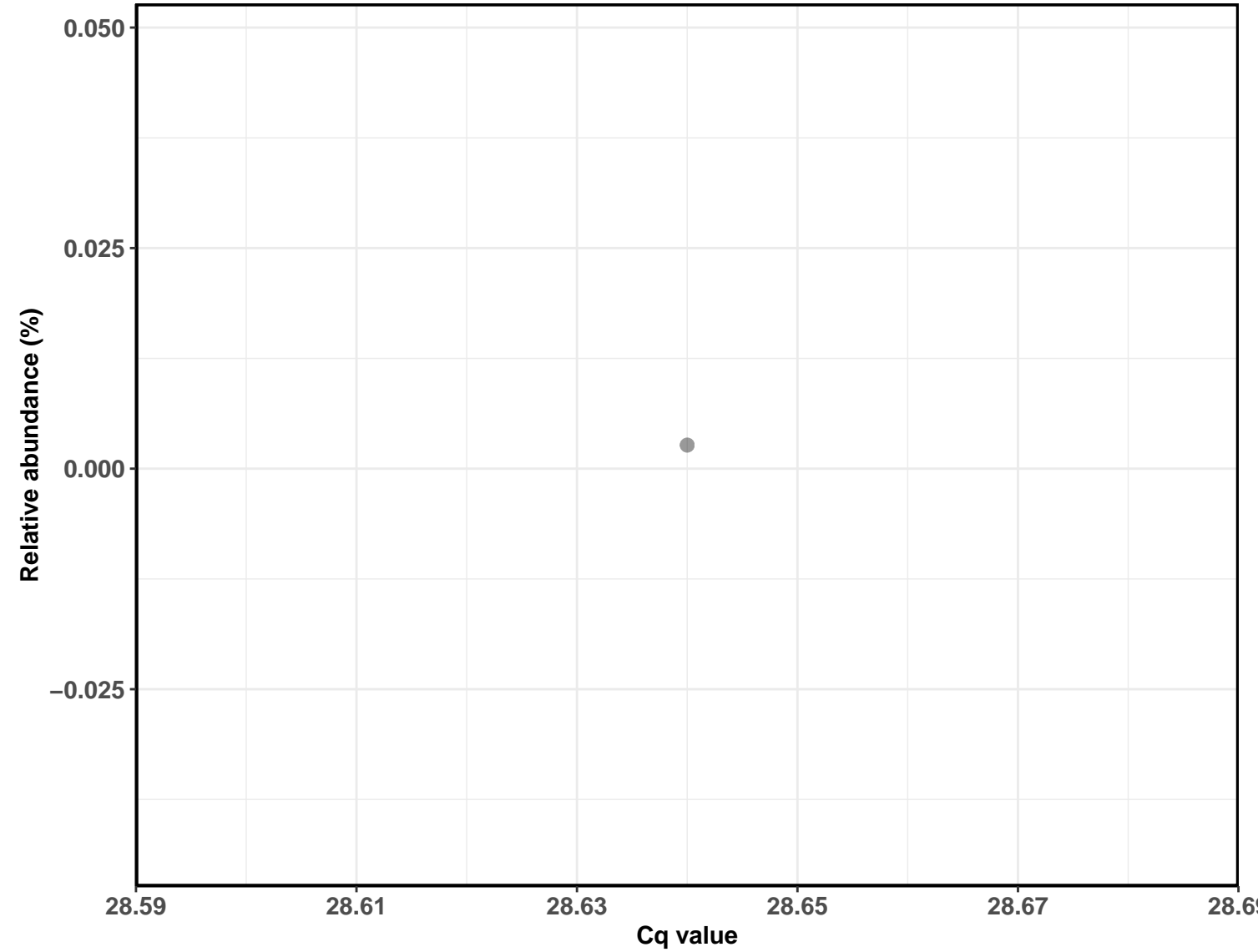
Correlation with all samples



Correlation within the sample type: REF-DIC

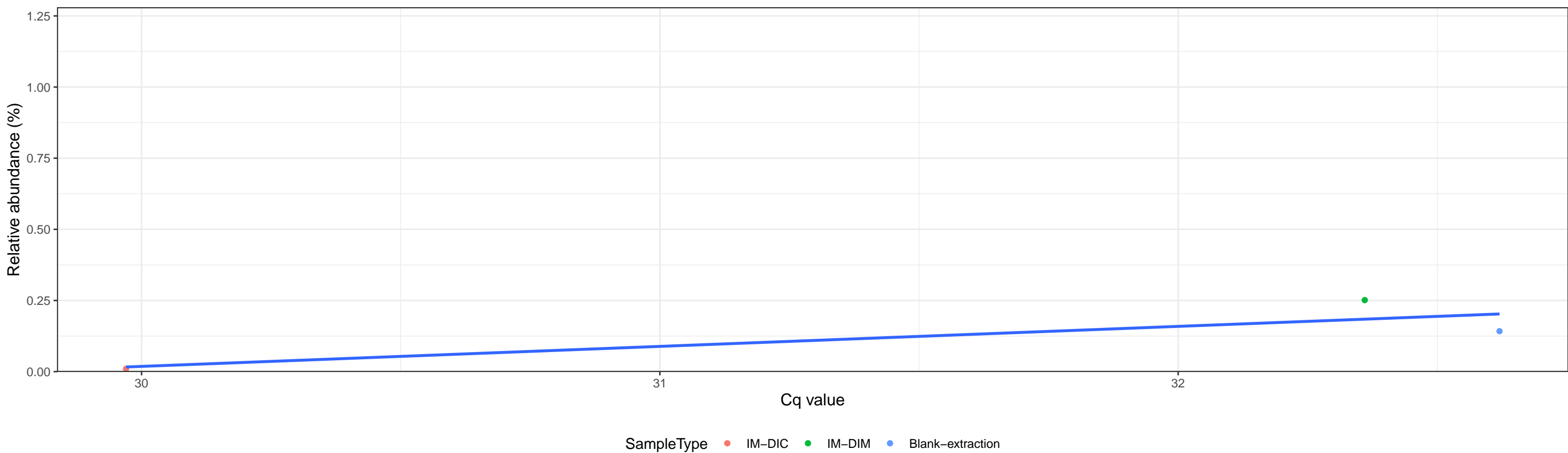


Correlation within the sample type: IM-DIC

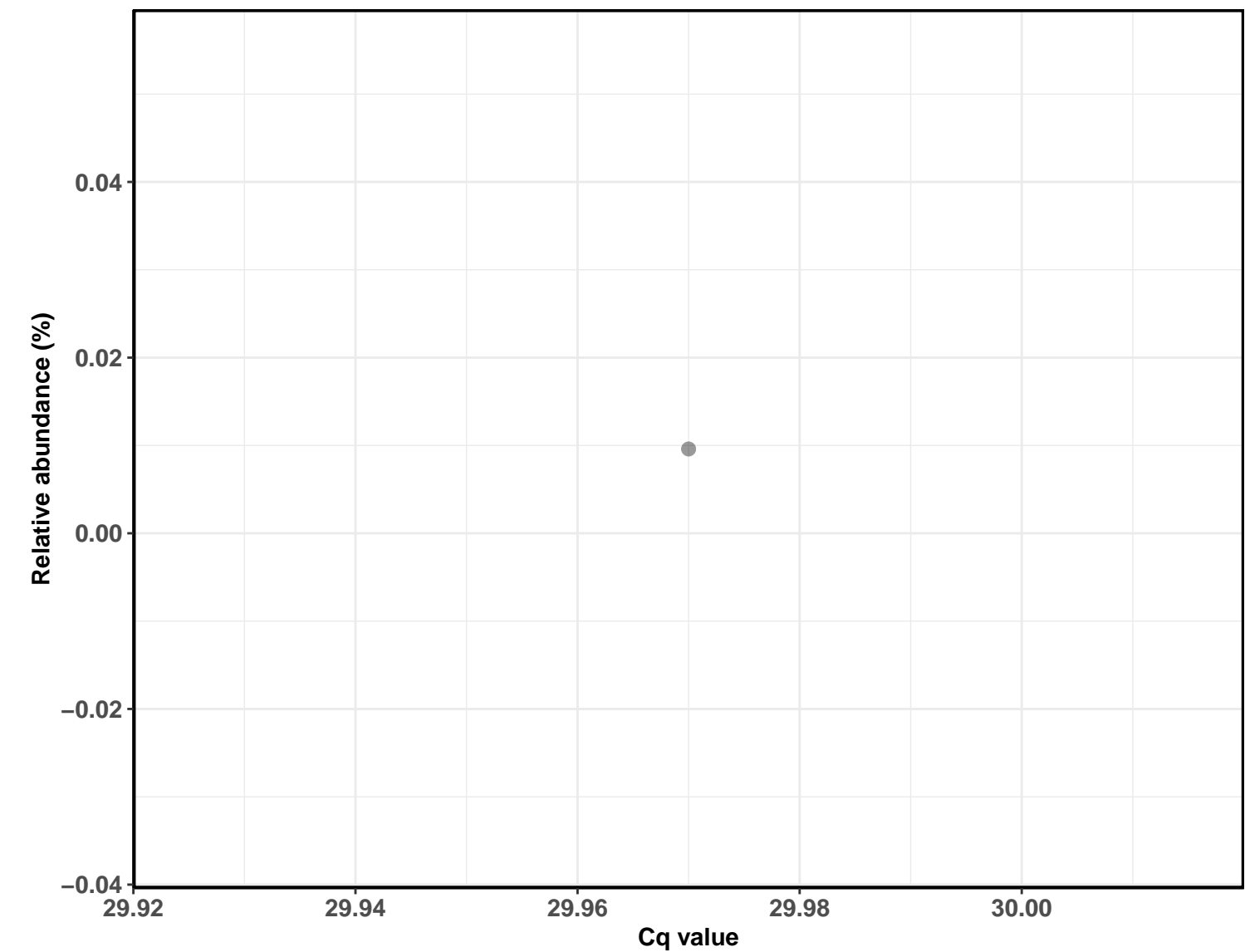


D\_0\_\_Bacteria; D\_1\_\_Proteobacteria; D\_2\_\_Alphaproteobacteria; D\_3\_\_Sphingomonadales; D\_4\_\_Sphingomonadaceae; D\_5\_\_Sphingomonas; Ambiguous\_taxa

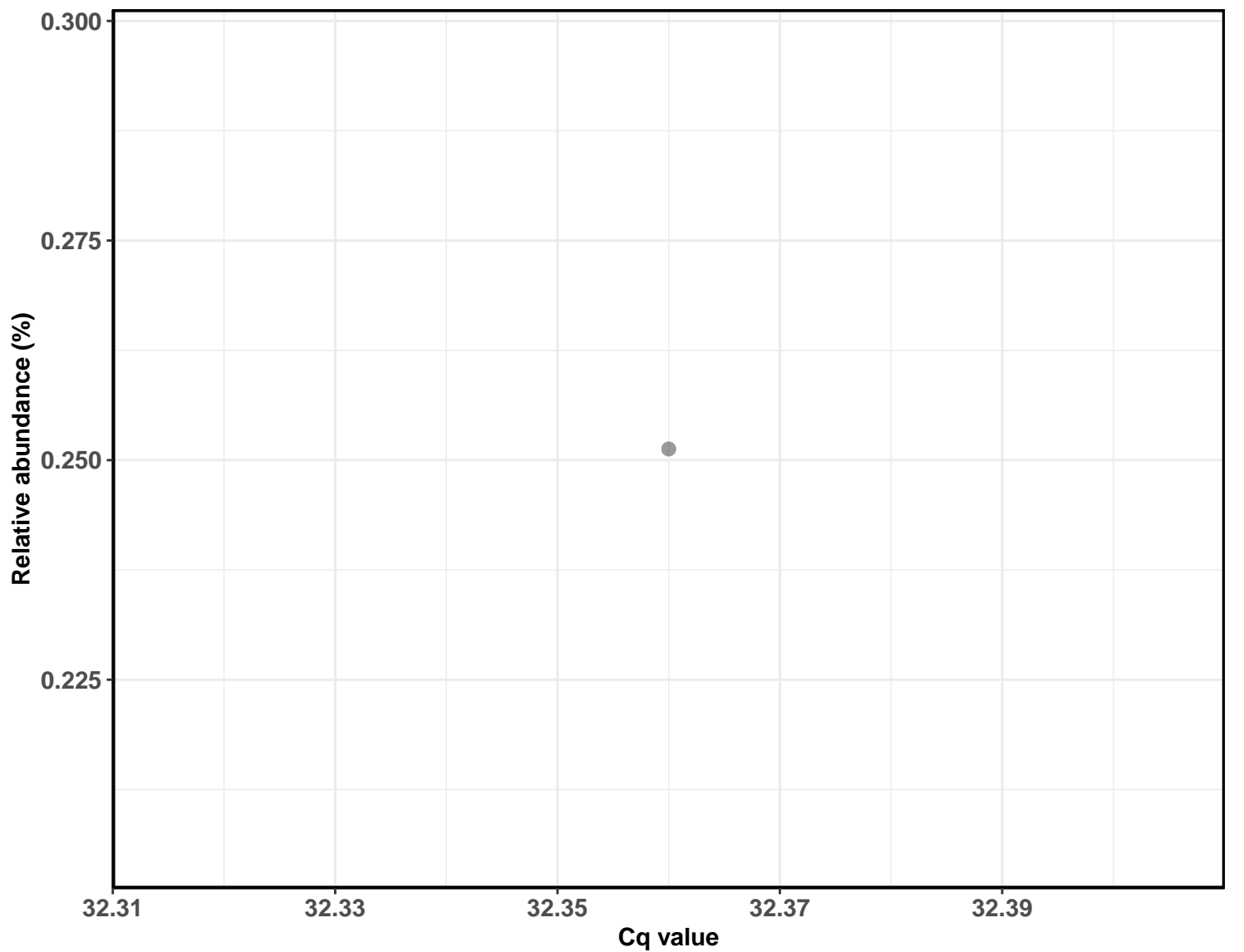
Correlation with all samples



Correlation within the sample type: IM-DIC



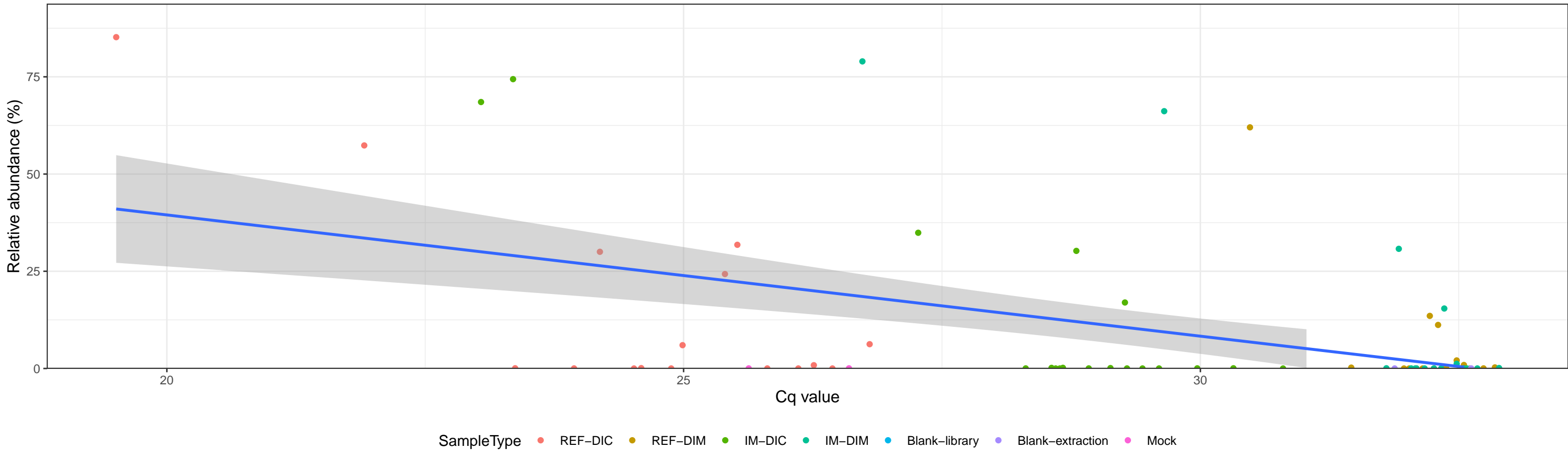
Correlation within the sample type: IM-DIM





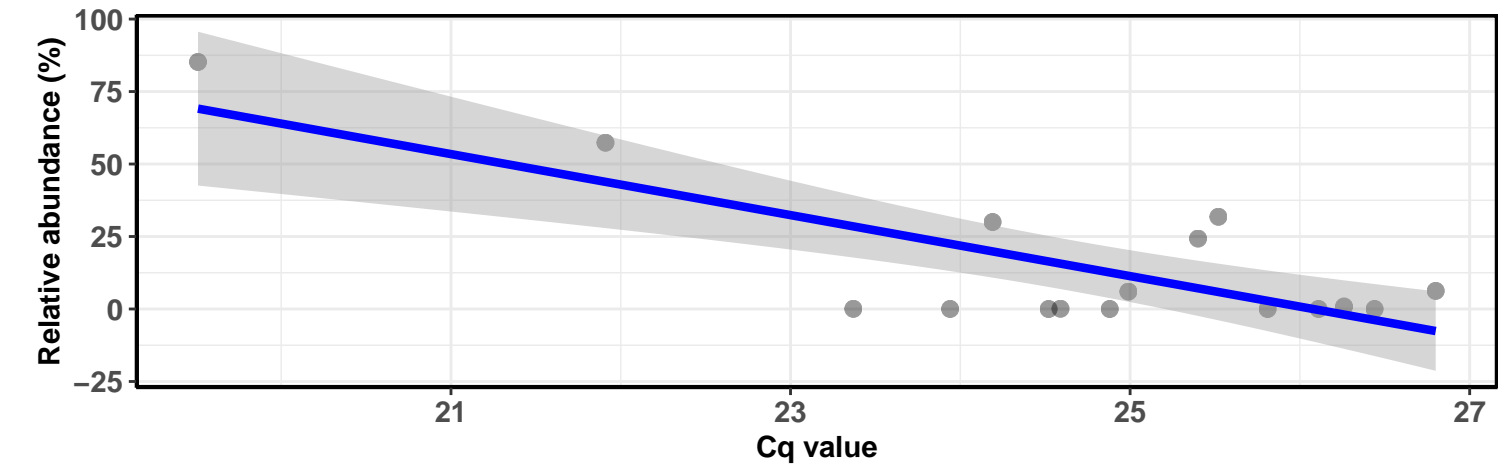
D\_0\_\_Bacteria; D\_1\_\_Proteobacteria; D\_2\_\_Gammaproteobacteria; D\_3\_\_Vibrionales; D\_4\_\_Vibrionaceae; D\_5\_\_Aliivibrio; D\_6\_\_uncultured bacterium

Correlation with all samples



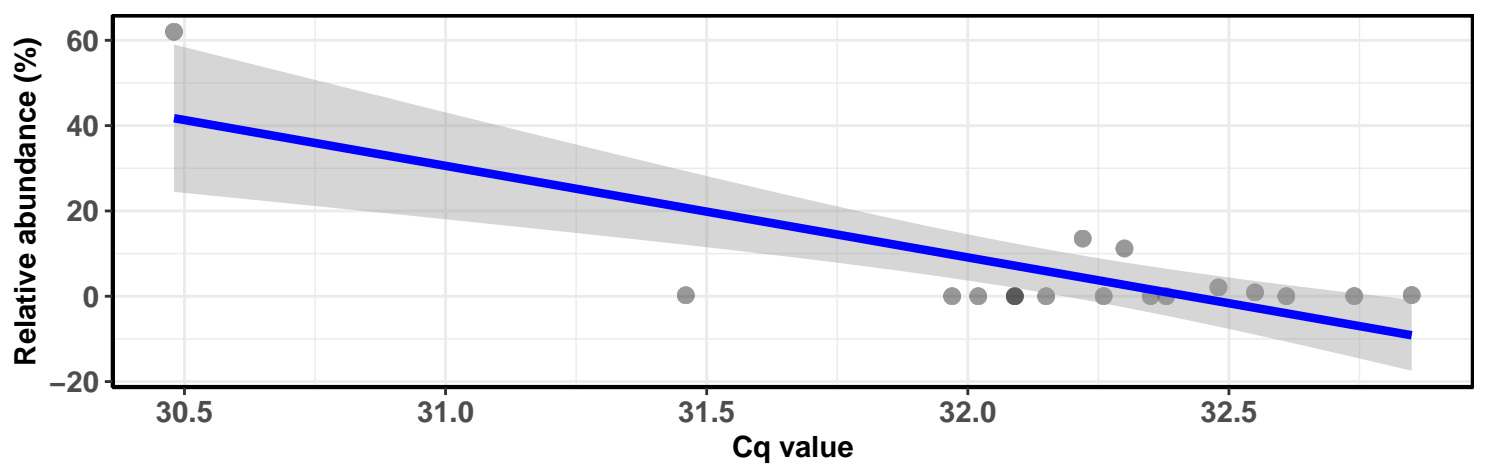
Correlation within the sample type: REF-DIC

$\log_e(S) = 6.793$ ,  $p = 0.240$ ,  $\rho_{\text{Spearman}} = -0.312$ ,  $CI_{95\%} [-0.699, 0.218]$ ,  $n = 16$



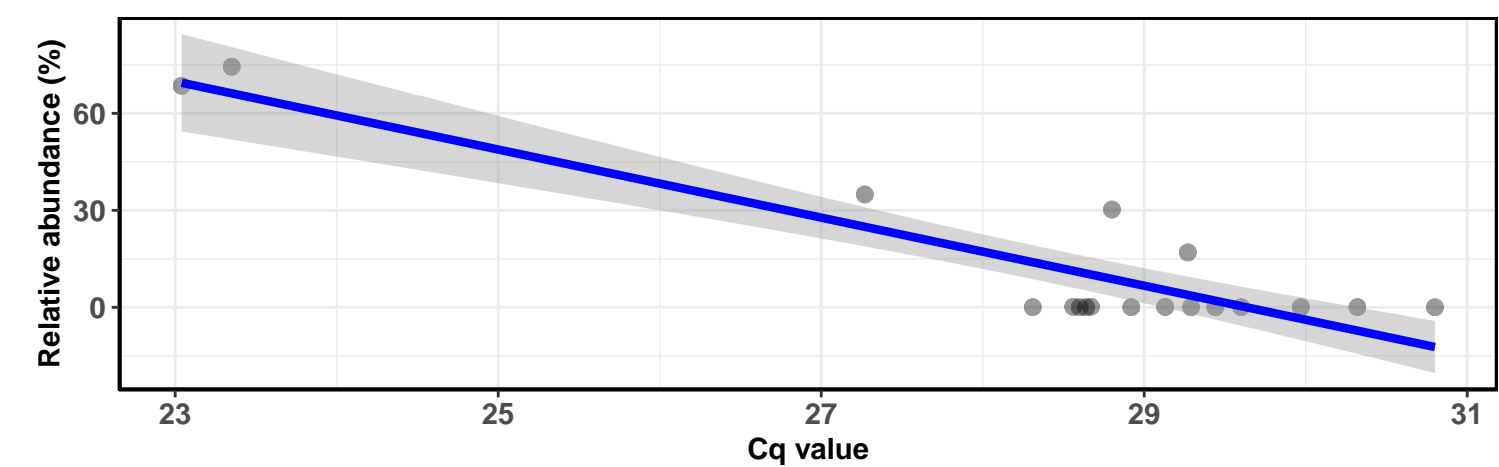
Correlation within the sample type: REF-DIM

$\log_e(S) = 6.525$ ,  $p = 0.529$ ,  $\rho_{\text{Spearman}} = 0.164$ ,  $CI_{95\%} [-0.343, 0.598]$ ,  $n = 17$



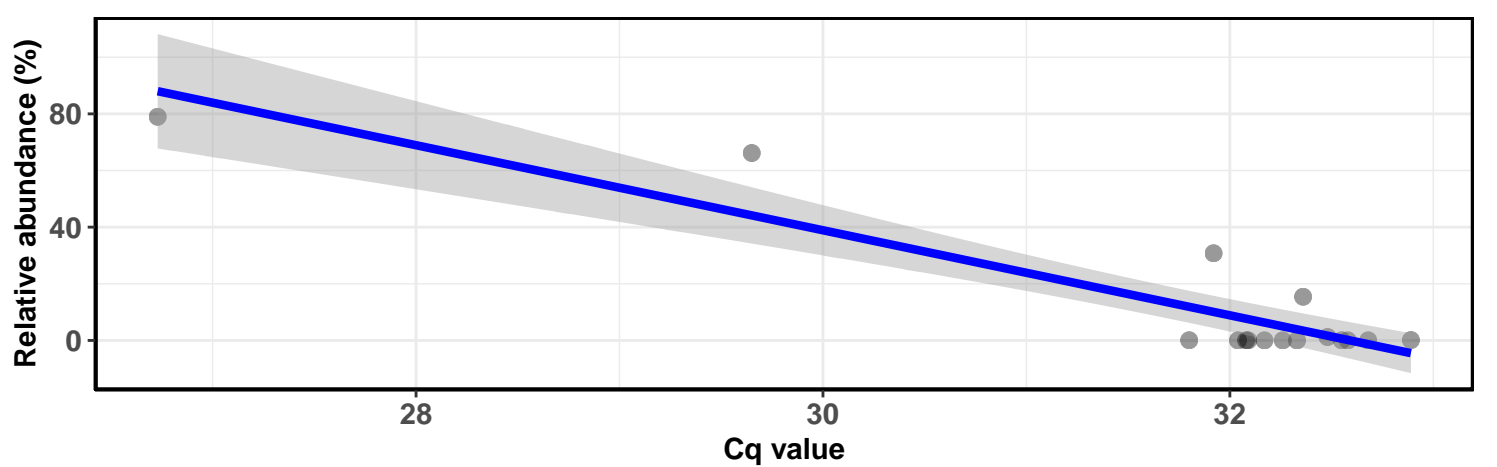
Correlation within the sample type: IM-DIC

$\log_e(S) = 7.305$ ,  $p = 0.022$ ,  $\rho_{\text{Spearman}} = -0.536$ ,  $CI_{95\%} [-0.802, -0.092]$ ,  $n = 18$



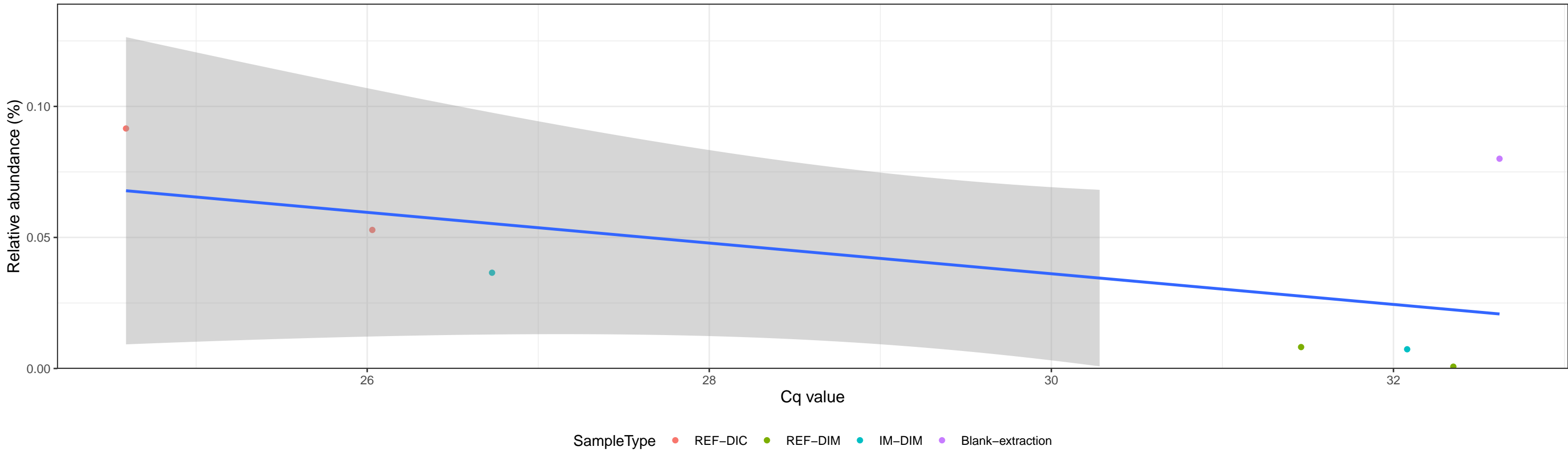
Correlation within the sample type: IM-DIM

$\log_e(S) = 6.859$ ,  $p = 0.125$ ,  $\rho_{\text{Spearman}} = -0.400$ ,  $CI_{95\%} [-0.747, 0.119]$ ,  $n = 16$

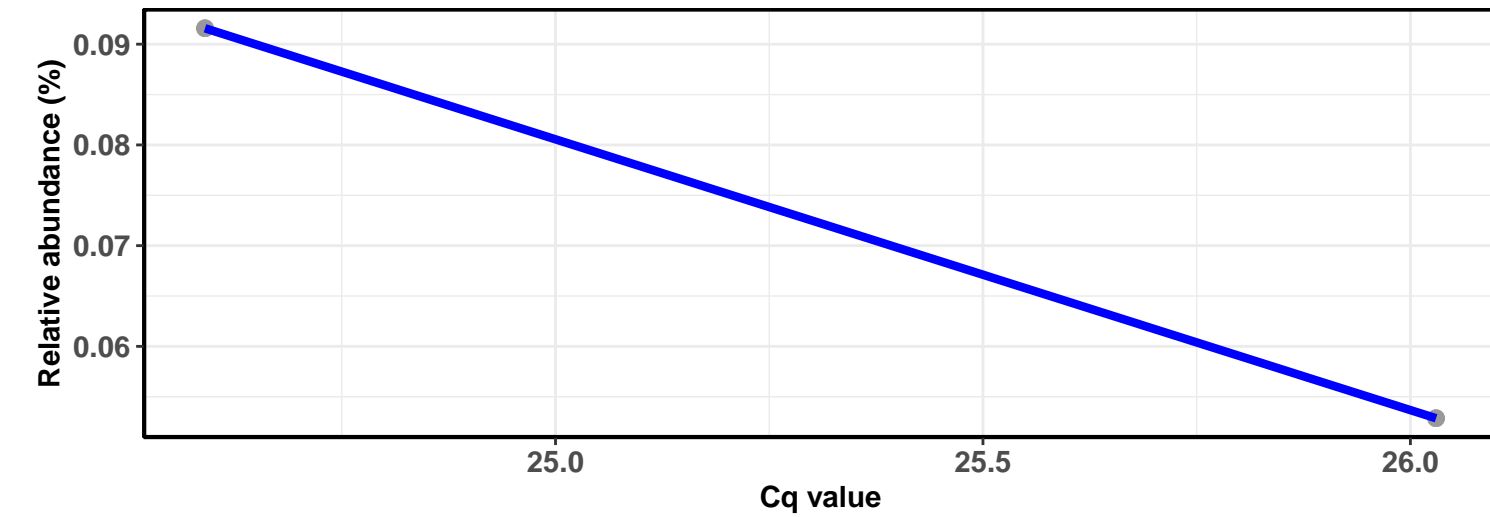


D\_0\_\_Bacteria; D\_1\_\_Proteobacteria; D\_2\_\_Alphaproteobacteria; D\_3\_\_Sphingomonadales; D\_4\_\_Sphingomonadaceae; D\_5\_\_Sphingomonas; Ambiguous\_taxa

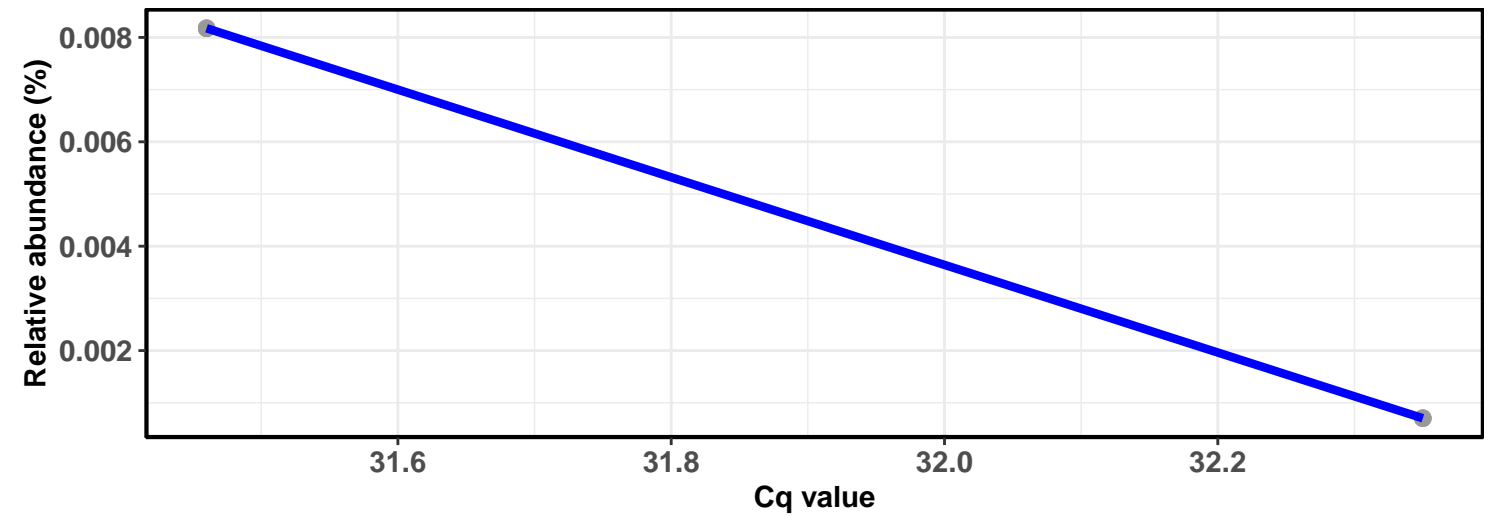
Correlation with all samples



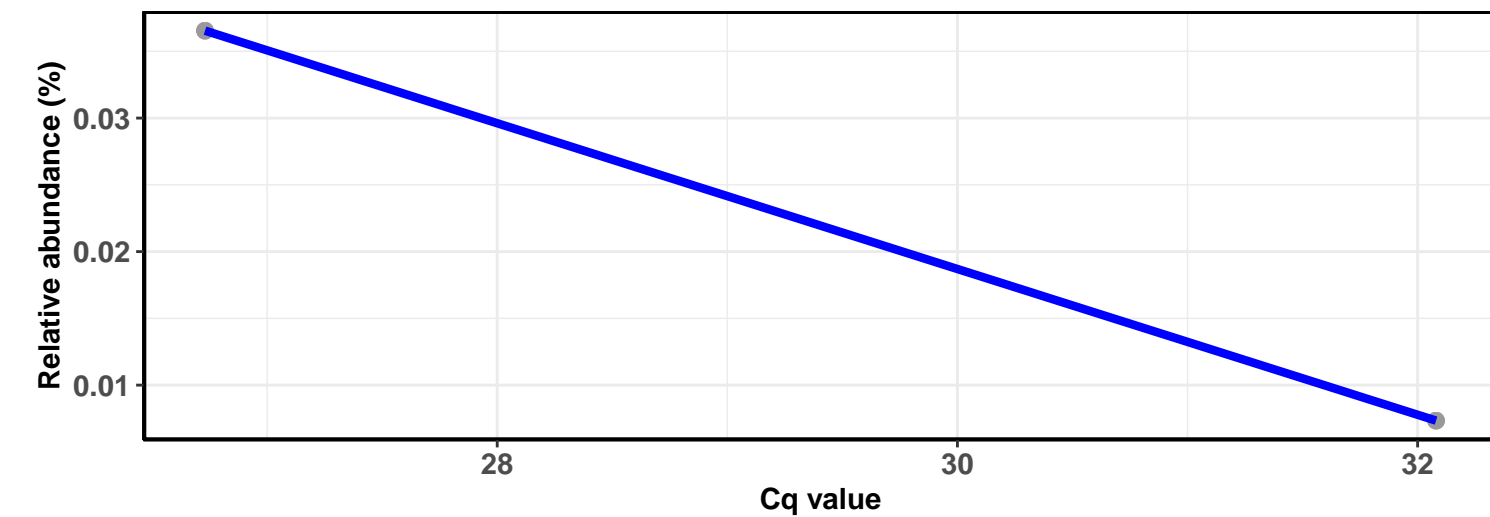
Correlation within the sample type: REF-DIC



Correlation within the sample type: REF-DIM

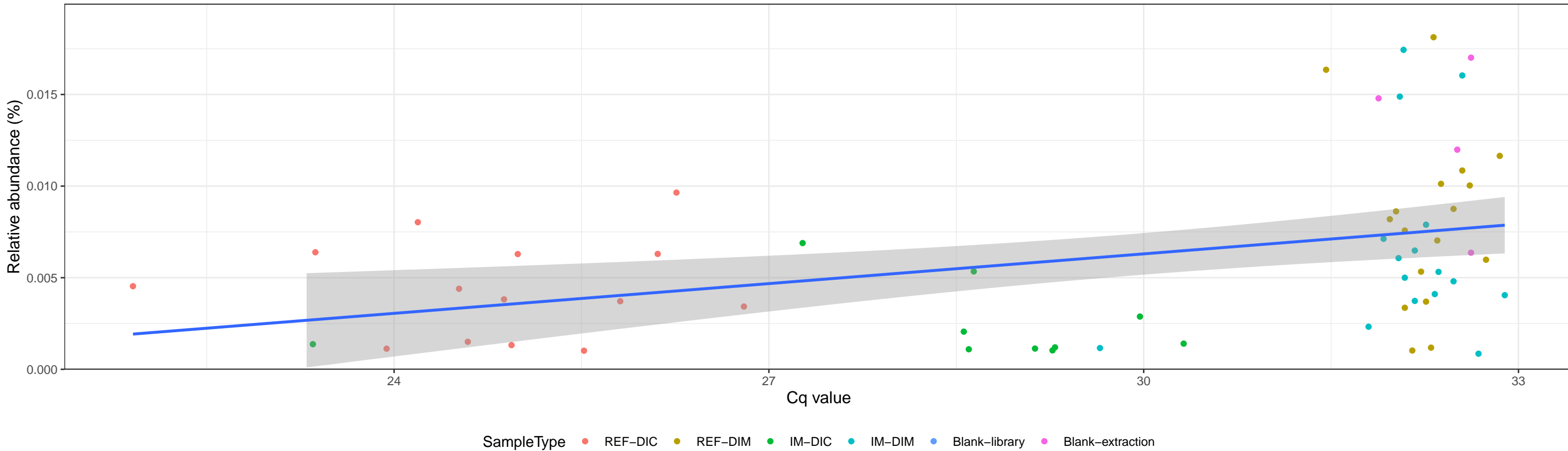


Correlation within the sample type: IM-DIM



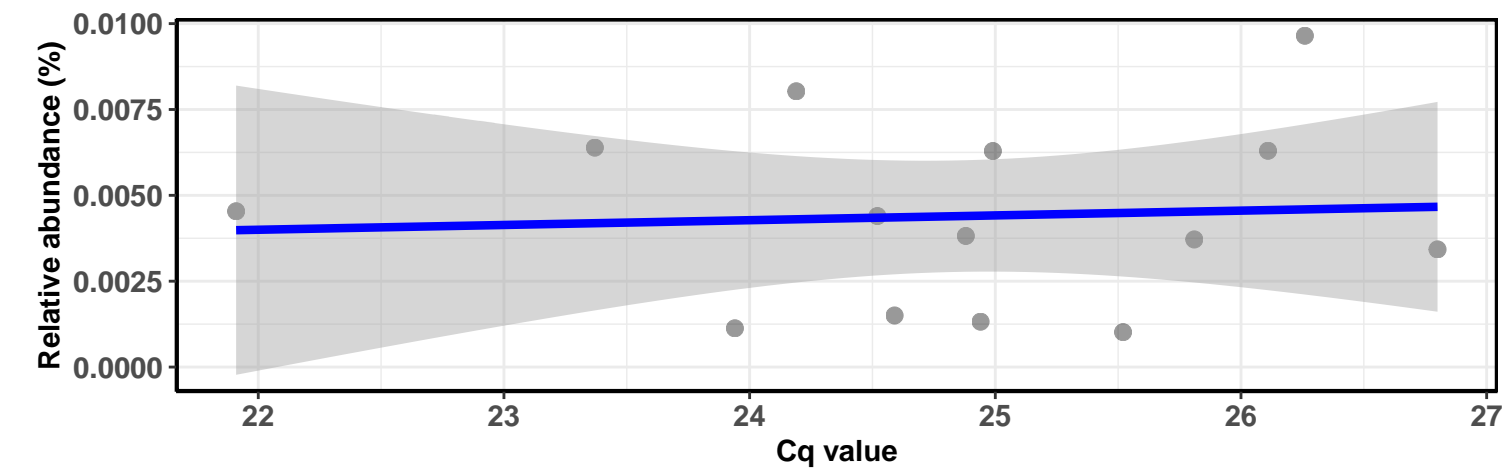
D\_0\_\_Bacteria; D\_1\_\_Proteobacteria; D\_2\_\_Gammaproteobacteria; D\_3\_\_Pseudomonadales; D\_4\_\_Pseudomonadaceae; D\_5\_\_Pseudomonas

Correlation with all samples



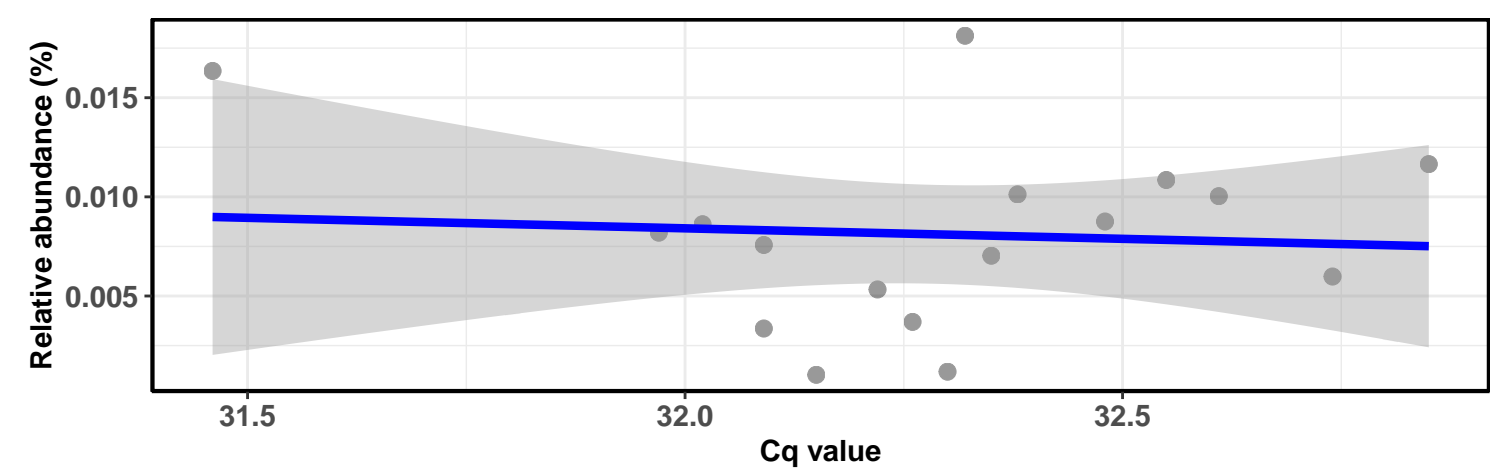
Correlation within the sample type: REF-DIC

$\log_e(S) = 6.161$ ,  $p = 0.887$ ,  $\rho_{\text{Spearman}} = -0.042$ ,  $CI_{95\%} [-0.560, 0.500]$ ,  $n = 14$



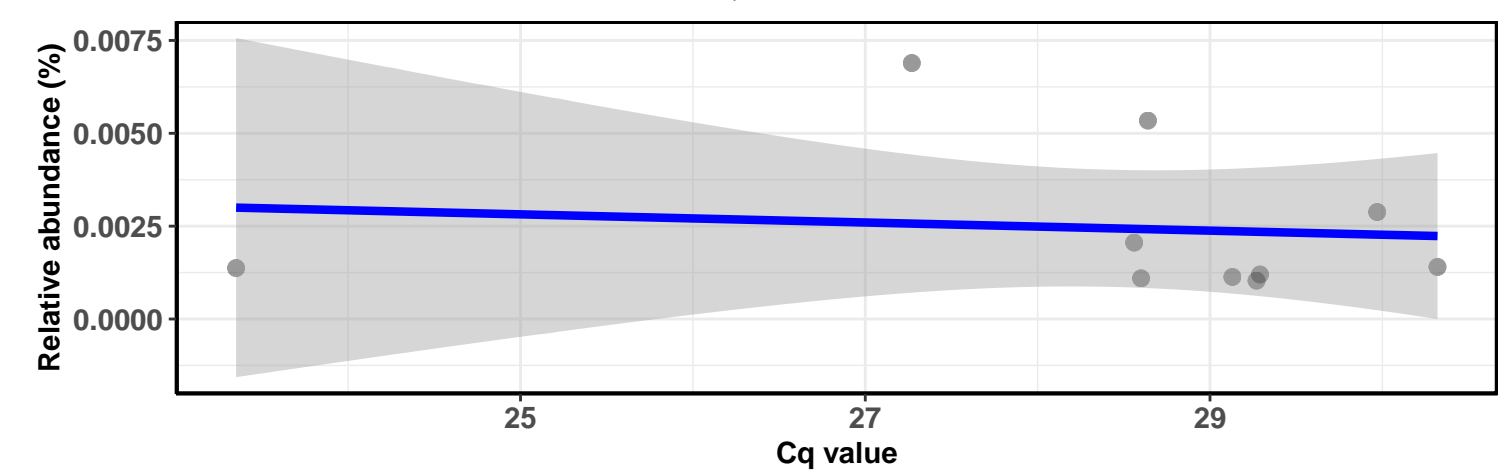
Correlation within the sample type: REF-DIM

$\log_e(S) = 6.421$ ,  $p = 0.340$ ,  $\rho_{\text{Spearman}} = 0.246$ ,  $CI_{95\%} [-0.266, 0.650]$ ,  $n = 17$



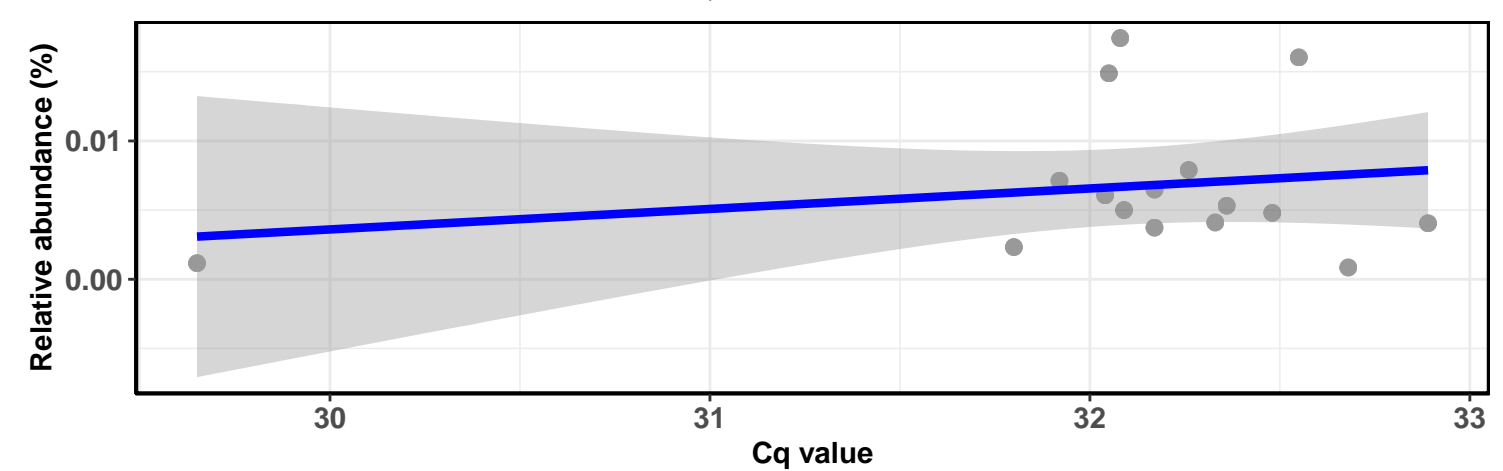
Correlation within the sample type: IM-DIC

$\log_e(S) = 5.268$ ,  $p = 0.627$ ,  $\rho_{\text{Spearman}} = -0.176$ ,  $CI_{95\%} [-0.725, 0.510]$ ,  $n = 10$



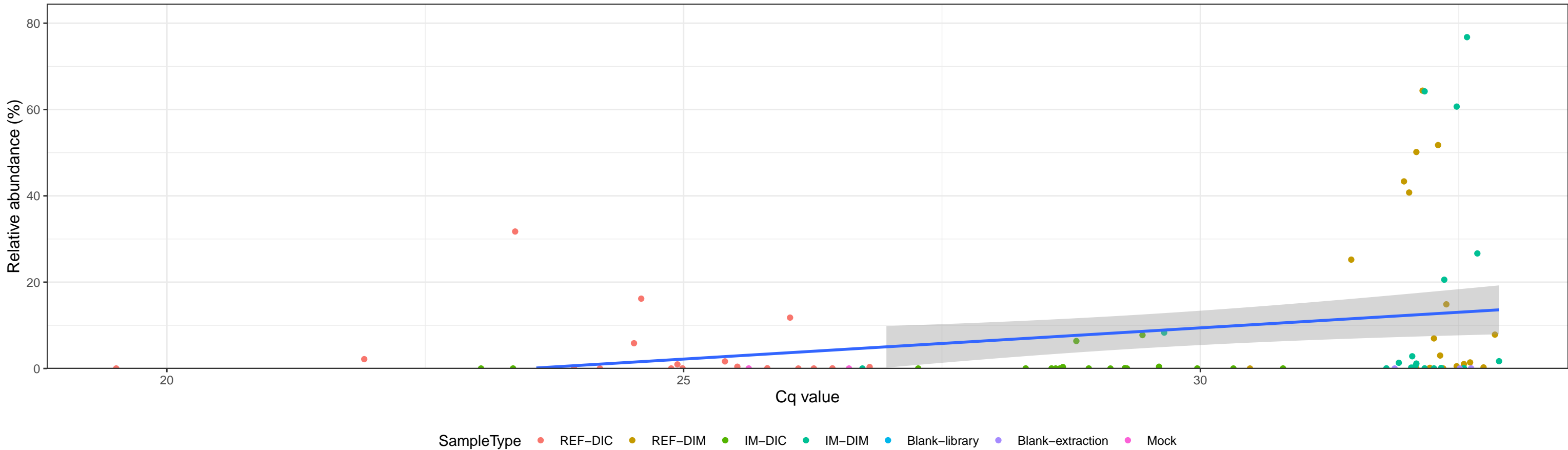
Correlation within the sample type: IM-DIM

$\log_e(S) = 6.586$ ,  $p = 0.807$ ,  $\rho_{\text{Spearman}} = -0.066$ ,  $CI_{95\%} [-0.544, 0.444]$ ,  $n = 16$



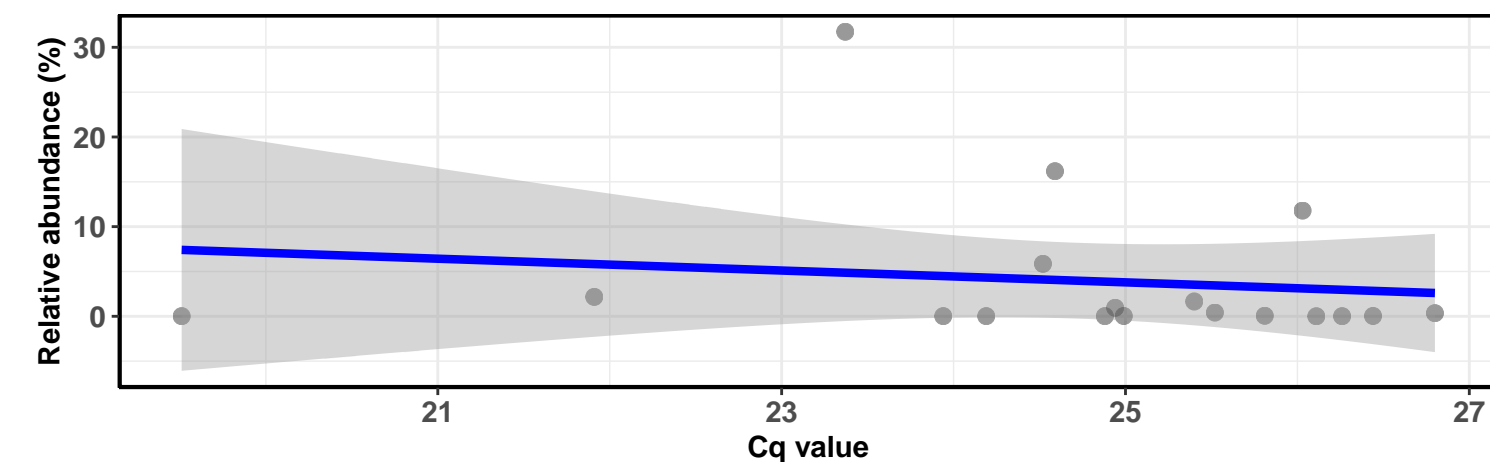
D\_0\_\_Bacteria; D\_1\_\_Spirochaetes; D\_2\_\_Spirochaetia; D\_3\_\_Brevinematales; D\_4\_\_Brevinemataceae; D\_5\_\_Brevinema; D\_6\_\_Brevinema andersonii

Correlation with all samples



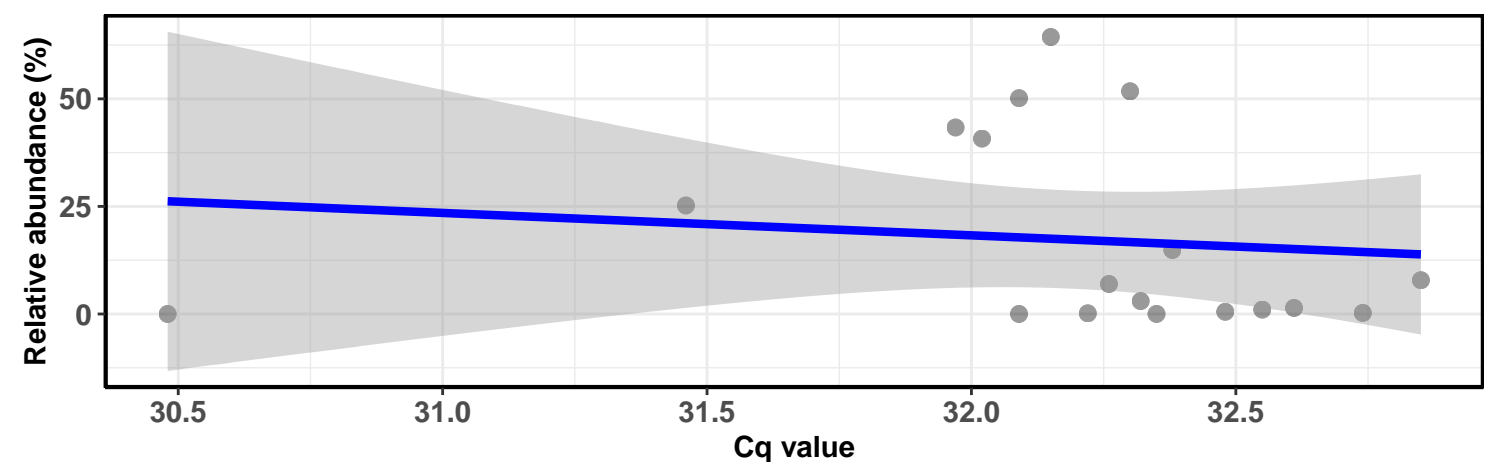
Correlation within the sample type: REF-DIC

$\log_e(S) = 7.051$ ,  $p = 0.448$ ,  $\rho_{\text{Spearman}} = -0.191$ ,  $CI_{95\%} [-0.604, 0.303]$ ,  $n = 18$



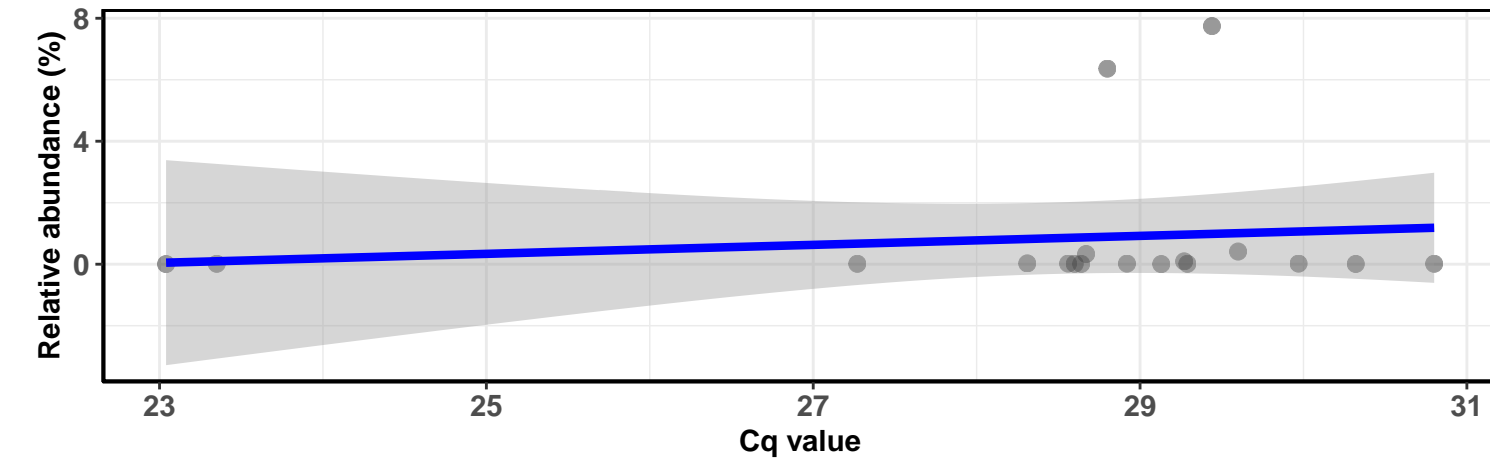
Correlation within the sample type: REF-DIM

$\log_e(S) = 7.044$ ,  $p = 0.468$ ,  $\rho_{\text{Spearman}} = -0.183$ ,  $CI_{95\%} [-0.599, 0.311]$ ,  $n = 18$



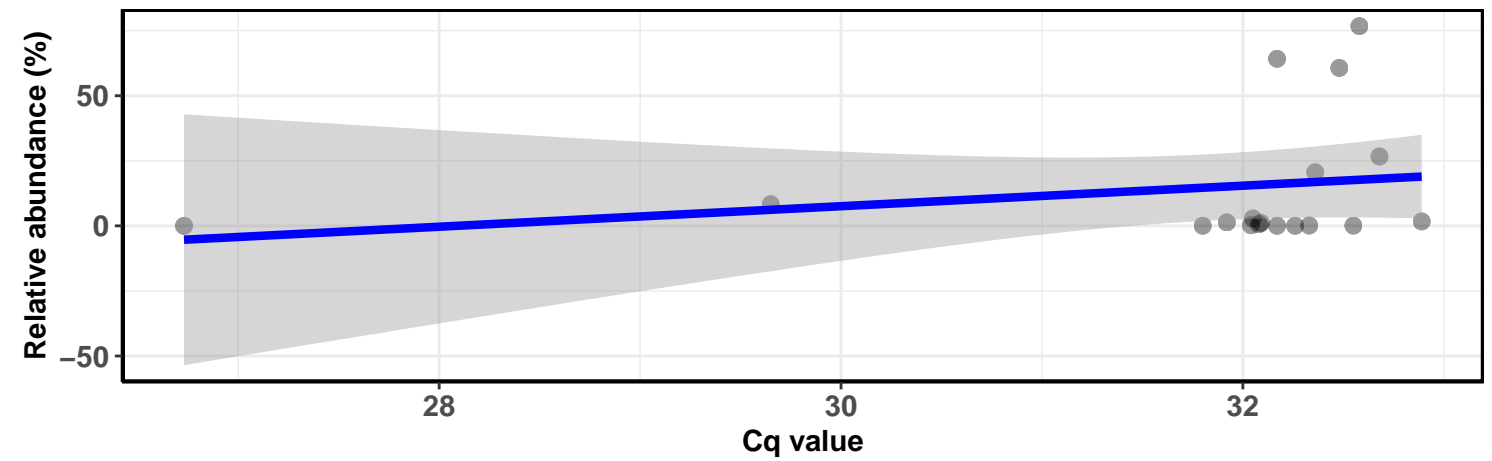
Correlation within the sample type: IM-DIC

$\log_e(S) = 6.654$ ,  $p = 0.428$ ,  $\rho_{\text{Spearman}} = 0.199$ ,  $CI_{95\%} [-0.295, 0.609]$ ,  $n = 18$



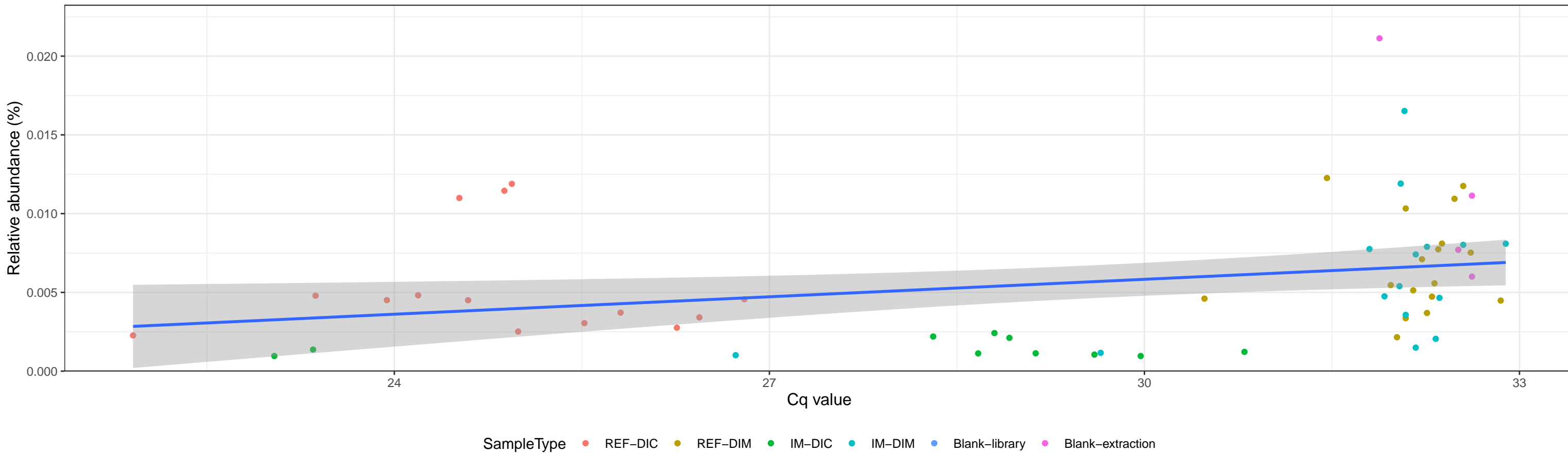
Correlation within the sample type: IM-DIM

$\log_e(S) = 6.359$ ,  $p = 0.097$ ,  $\rho_{\text{Spearman}} = 0.404$ ,  $CI_{95\%} [-0.078, 0.733]$ ,  $n = 18$



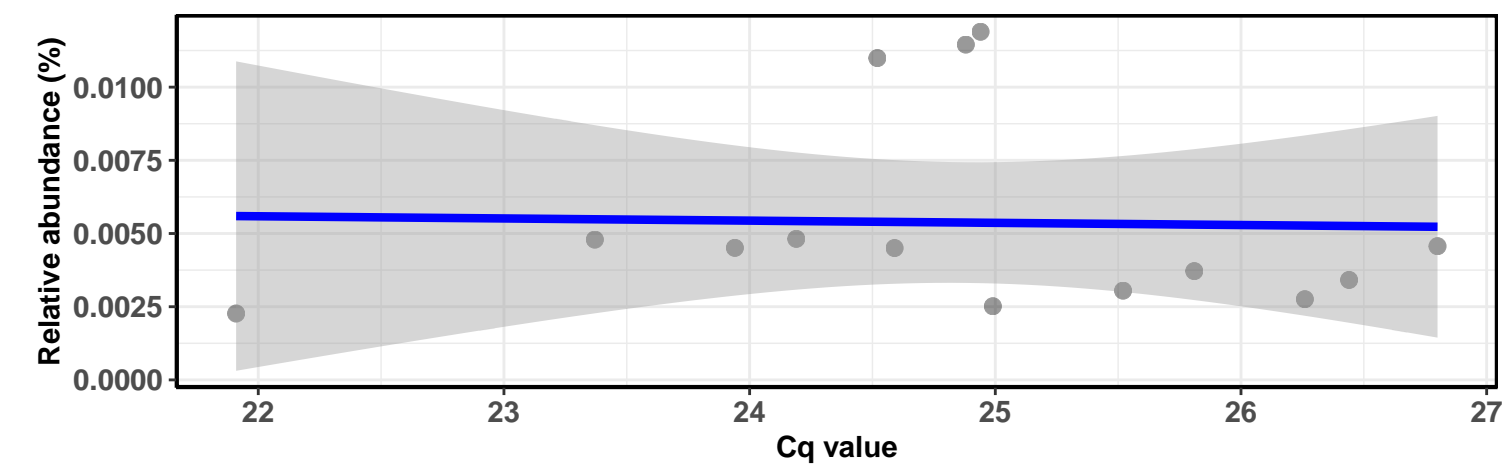
D\_0\_\_Bacteria; D\_1\_\_Proteobacteria; D\_2\_\_Gammaproteobacteria; D\_3\_\_Pseudomonadales; D\_4\_\_Pseudomonadaceae; D\_5\_\_Pseudomonas

### Correlation with all samples



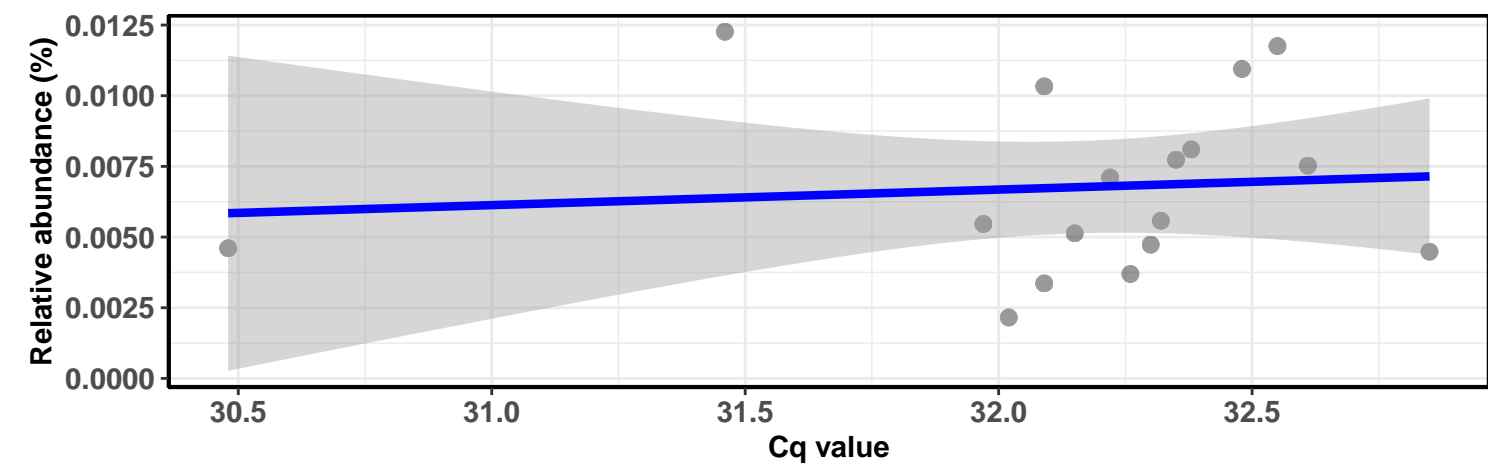
#### Correlation within the sample type: REF-DIC

$\log_e(S) = 6.292$ ,  $p = 0.523$ ,  $\rho_{\text{Spearman}} = -0.187$ ,  $CI_{95\%} [-0.653, 0.382]$ ,  $n = 14$



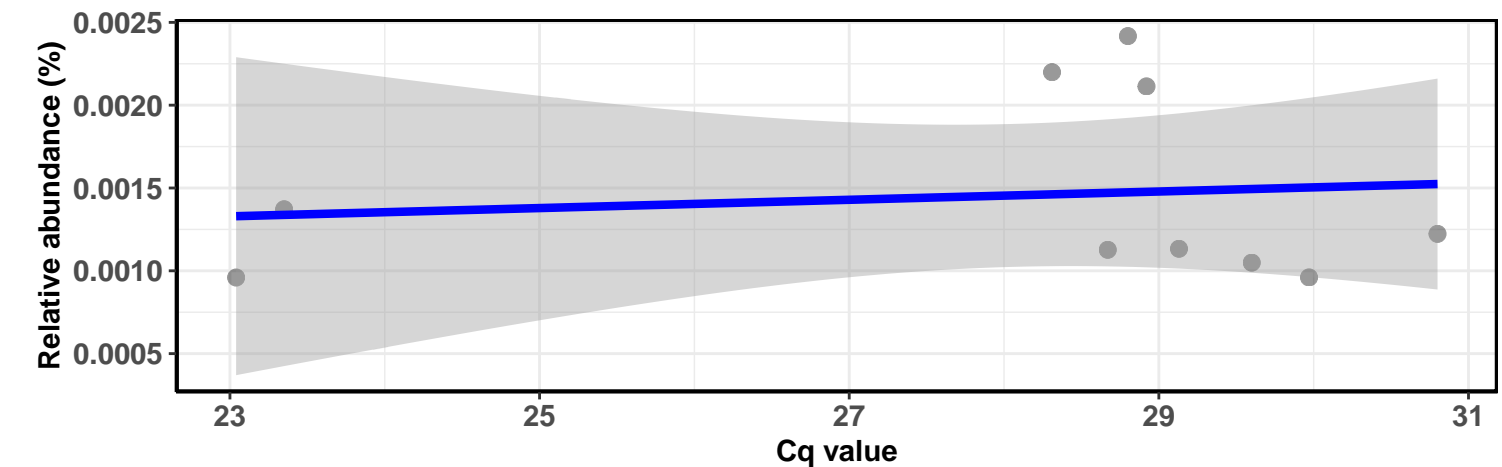
#### Correlation within the sample type: REF-DIM

$\log_e(S) = 6.423$ ,  $p = 0.343$ ,  $\rho_{\text{Spearman}} = 0.245$ ,  $CI_{95\%} [-0.267, 0.649]$ ,  $n = 17$



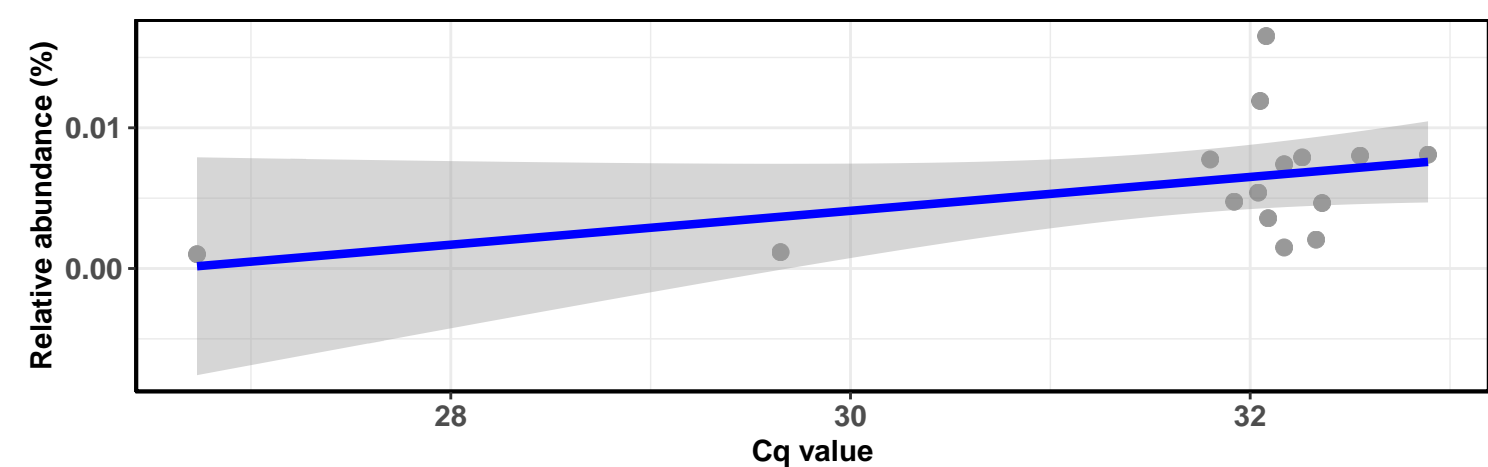
#### Correlation within the sample type: IM-DIC

$\log_e(S) = 5.215$ ,  $p = 0.751$ ,  $\rho_{\text{Spearman}} = -0.115$ ,  $CI_{95\%} [-0.694, 0.555]$ ,  $n = 10$



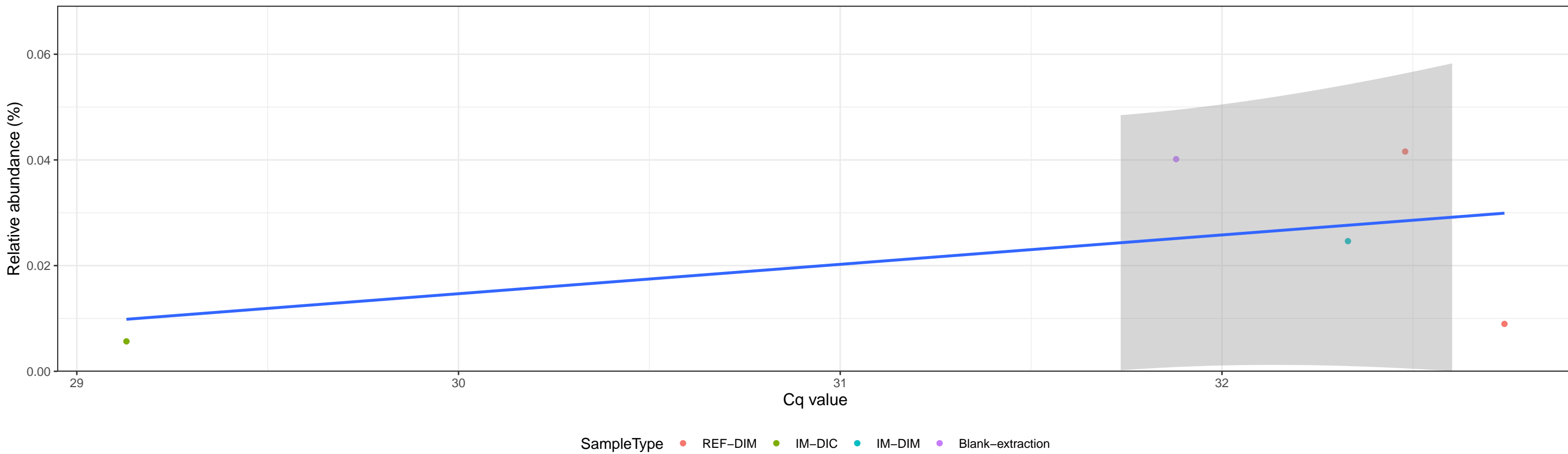
#### Correlation within the sample type: IM-DIM

$\log_e(S) = 5.908$ ,  $p = 0.210$ ,  $\rho_{\text{Spearman}} = 0.343$ ,  $CI_{95\%} [-0.205, 0.728]$ ,  $n = 15$

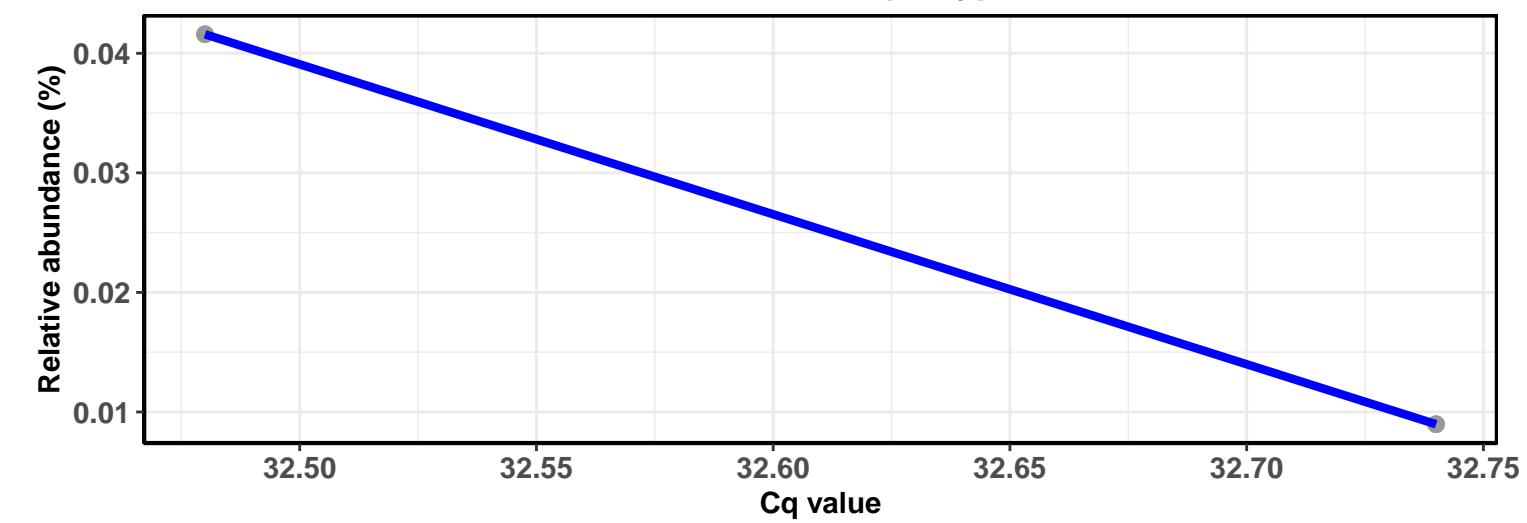


D\_0\_\_Bacteria; D\_1\_\_Proteobacteria; D\_2\_\_Alphaproteobacteria; D\_3\_\_Rhizobiales; D\_4\_\_Devosiaceae; D\_5\_\_Devosia

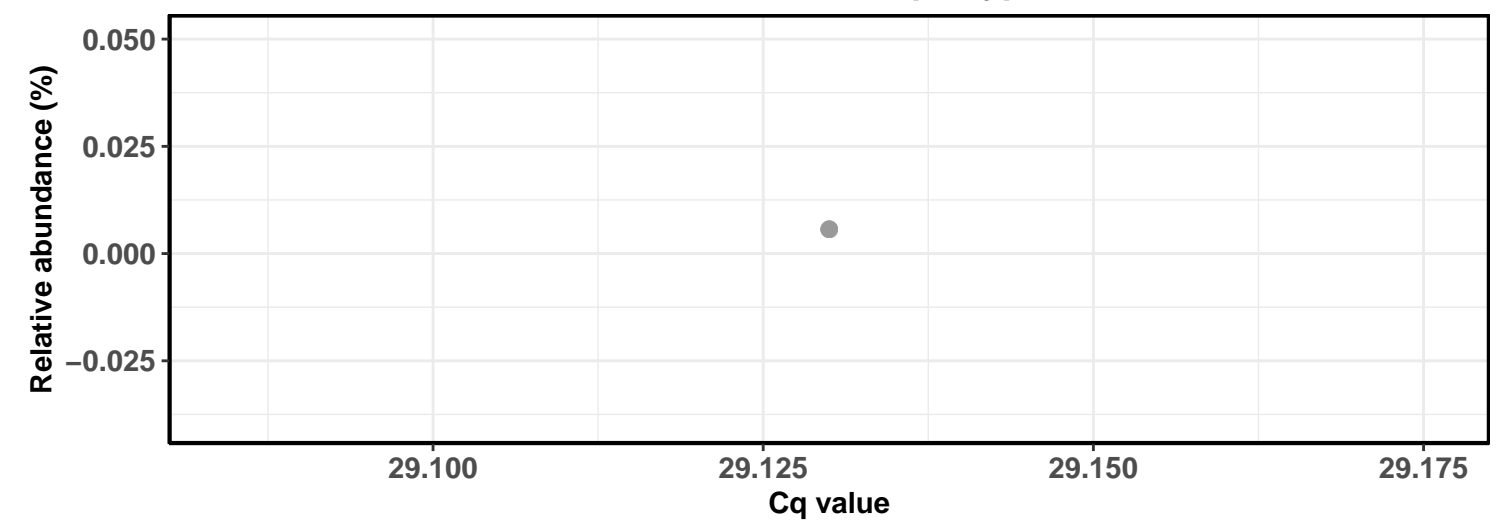
Correlation with all samples



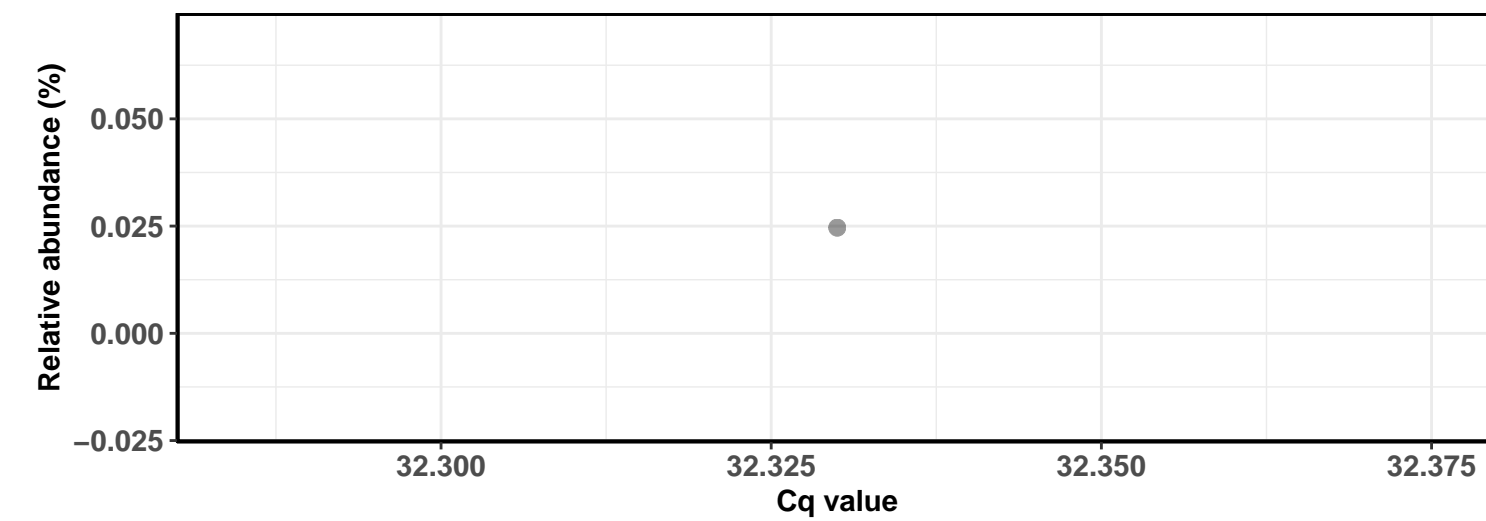
Correlation within the sample type: REF-DIM



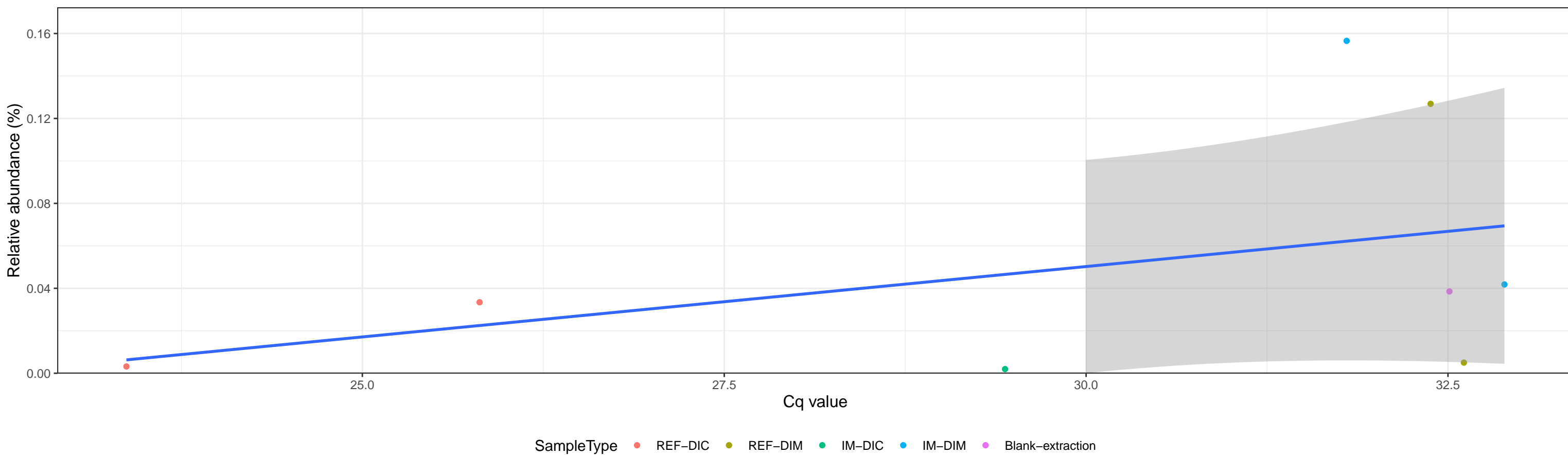
Correlation within the sample type: IM-DIC



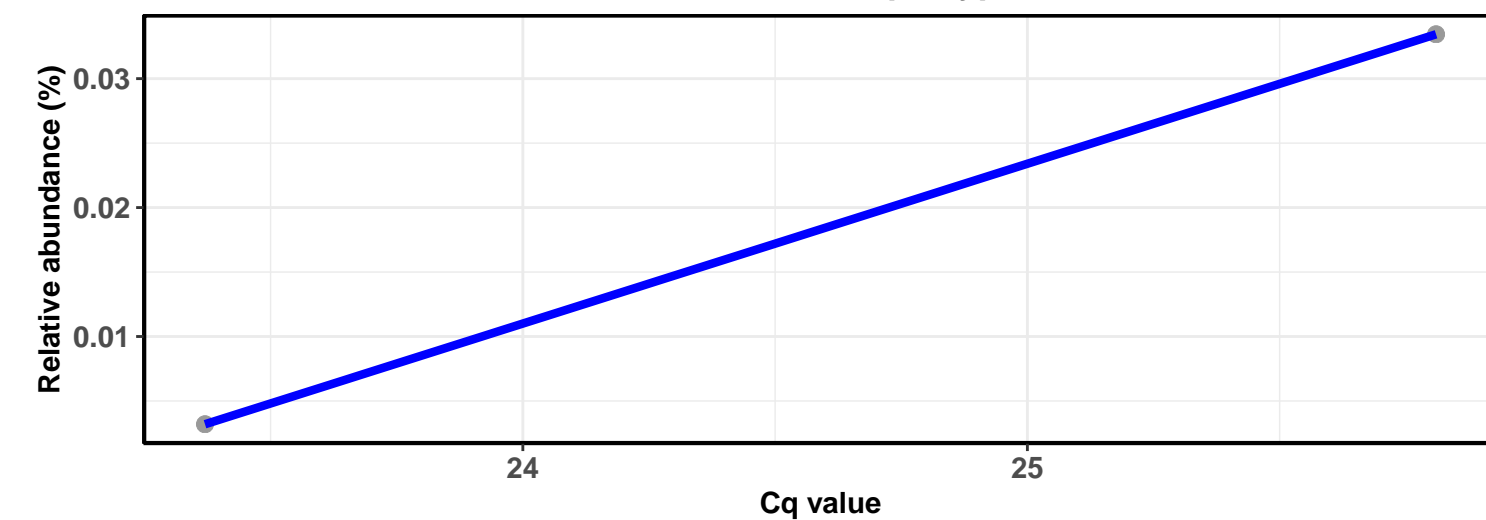
Correlation within the sample type: IM-DIM



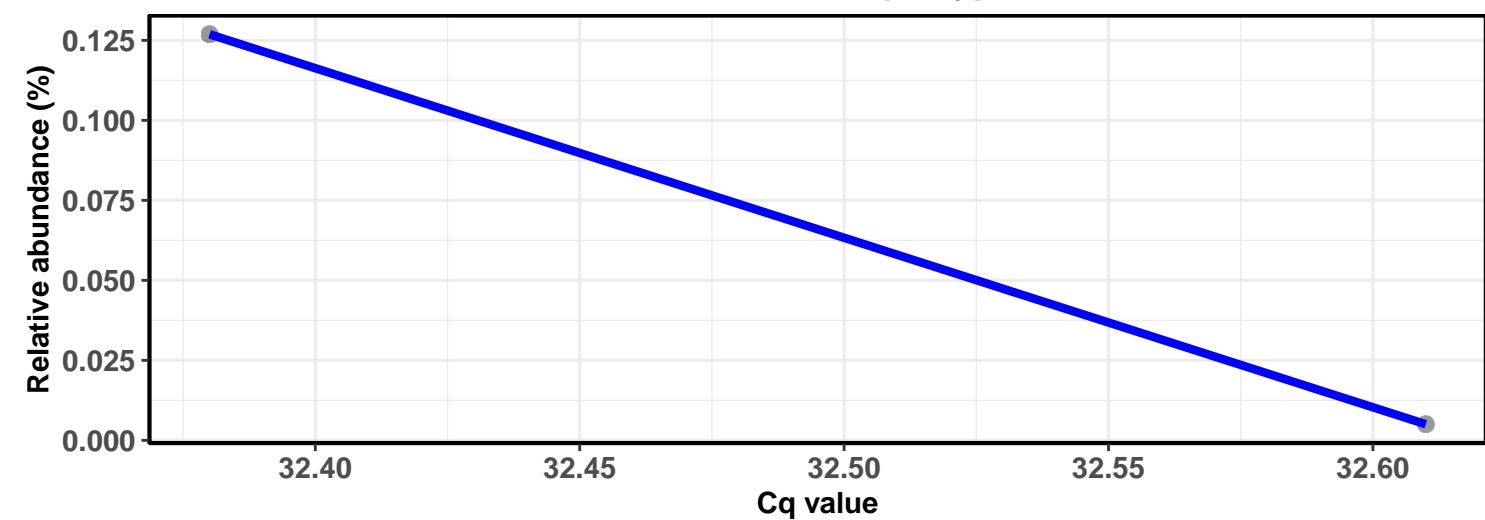
Correlation with all samples



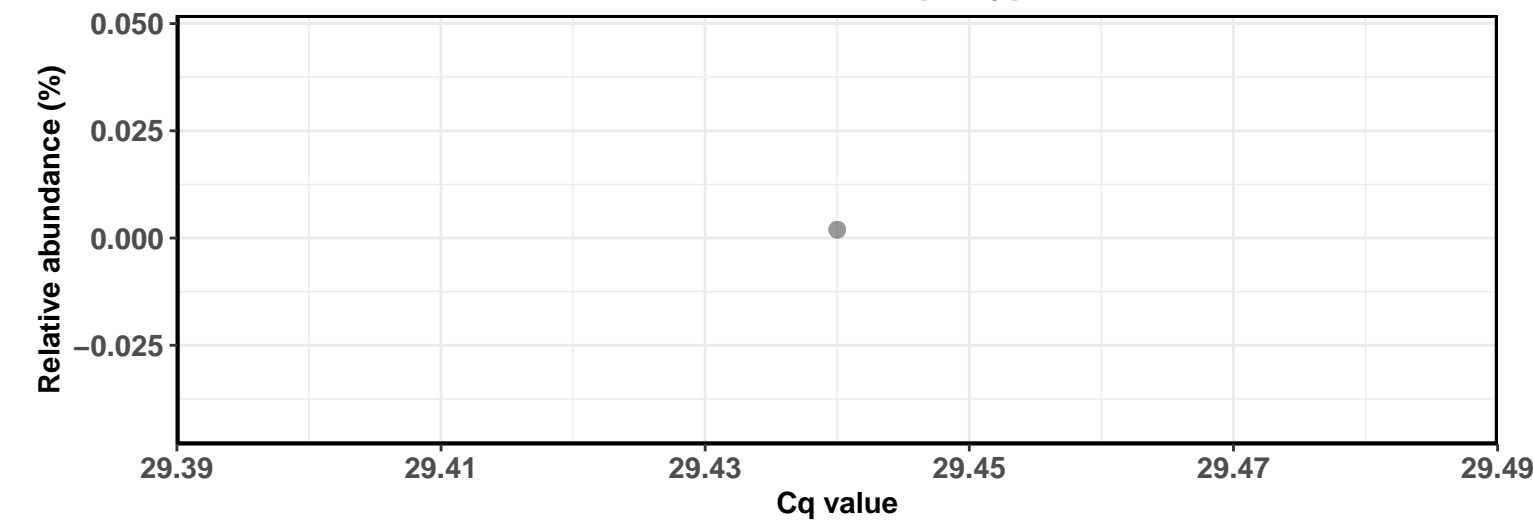
Correlation within the sample type: REF-DIC



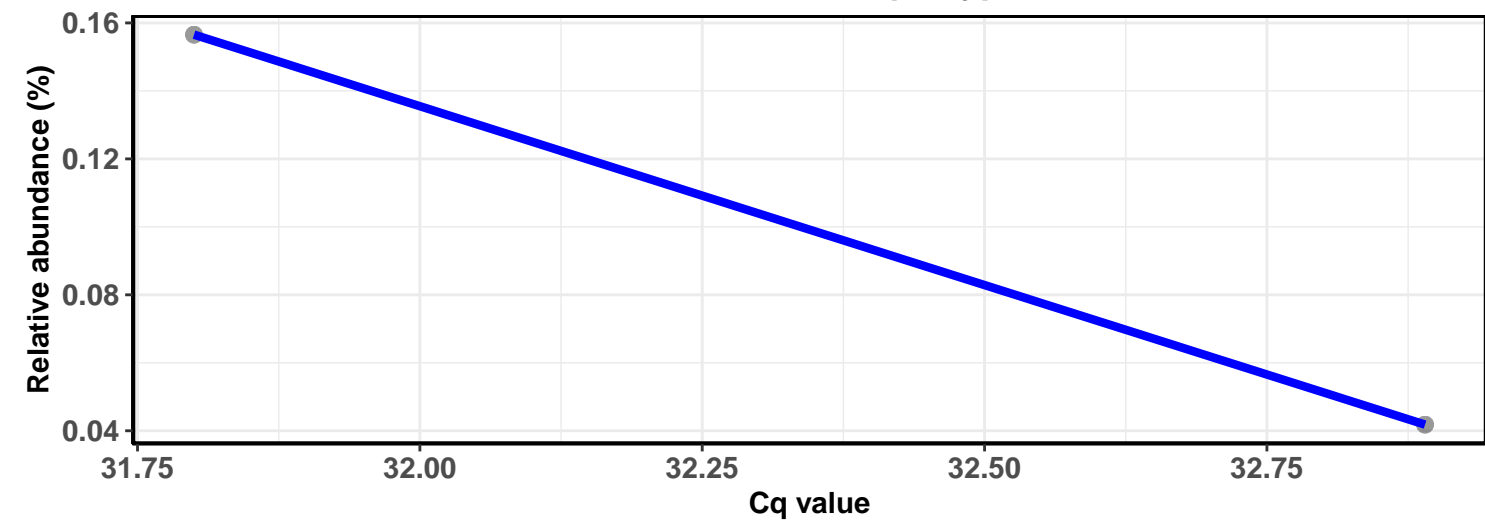
Correlation within the sample type: REF-DIM



Correlation within the sample type: IM-DIC

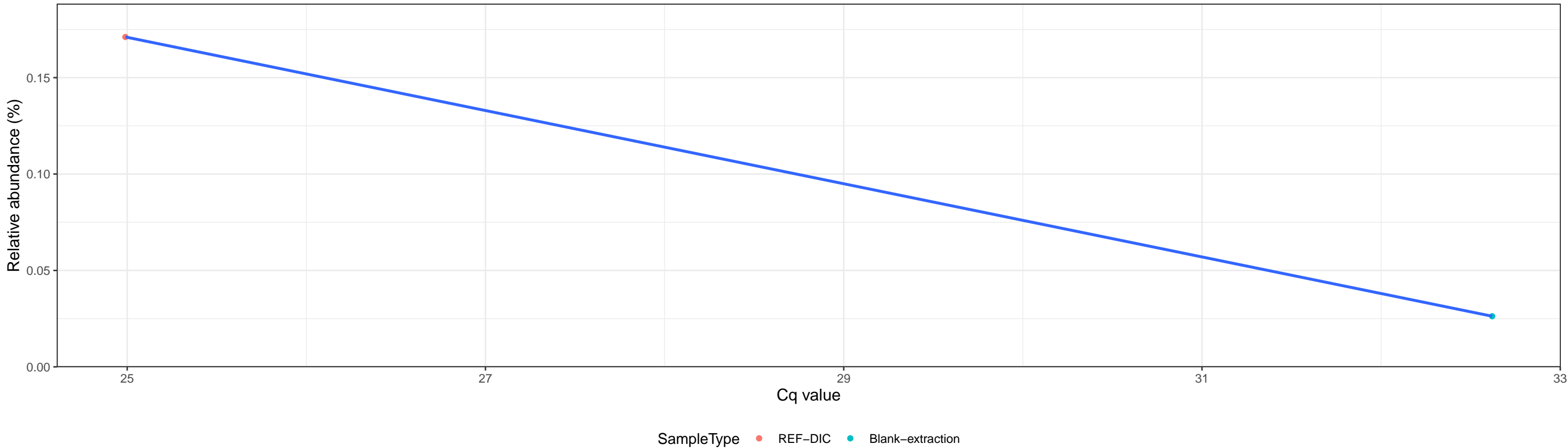


Correlation within the sample type: IM-DIM

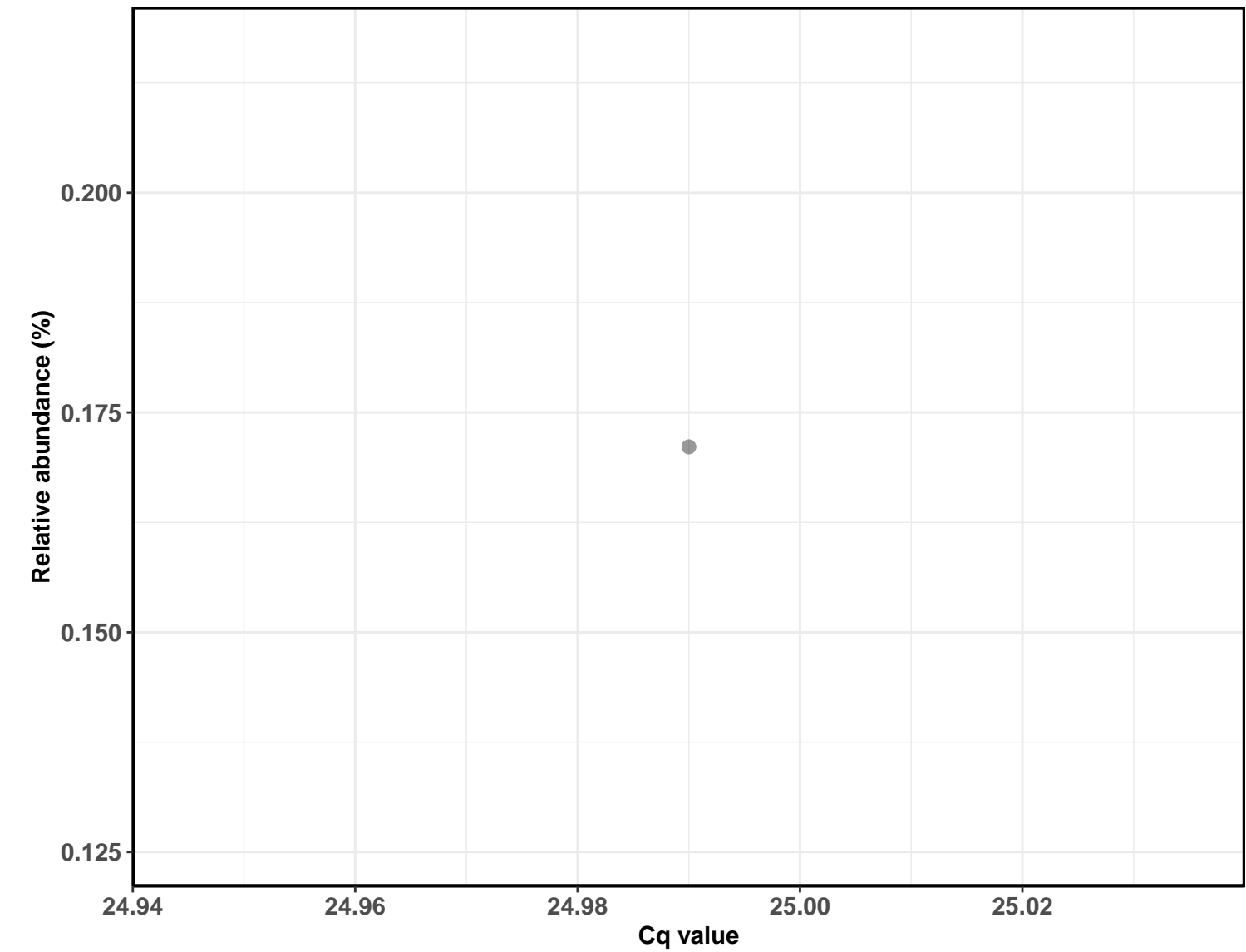


D\_0\_\_Bacteria; D\_1\_\_Bacteroidetes; D\_2\_\_Bacteroidia; D\_3\_\_Cytophagales; D\_4\_\_Hymenobacteraceae; D\_5\_\_Hymenobacter; D\_6\_\_uncultured Hymenobacter sp.

Correlation with all samples



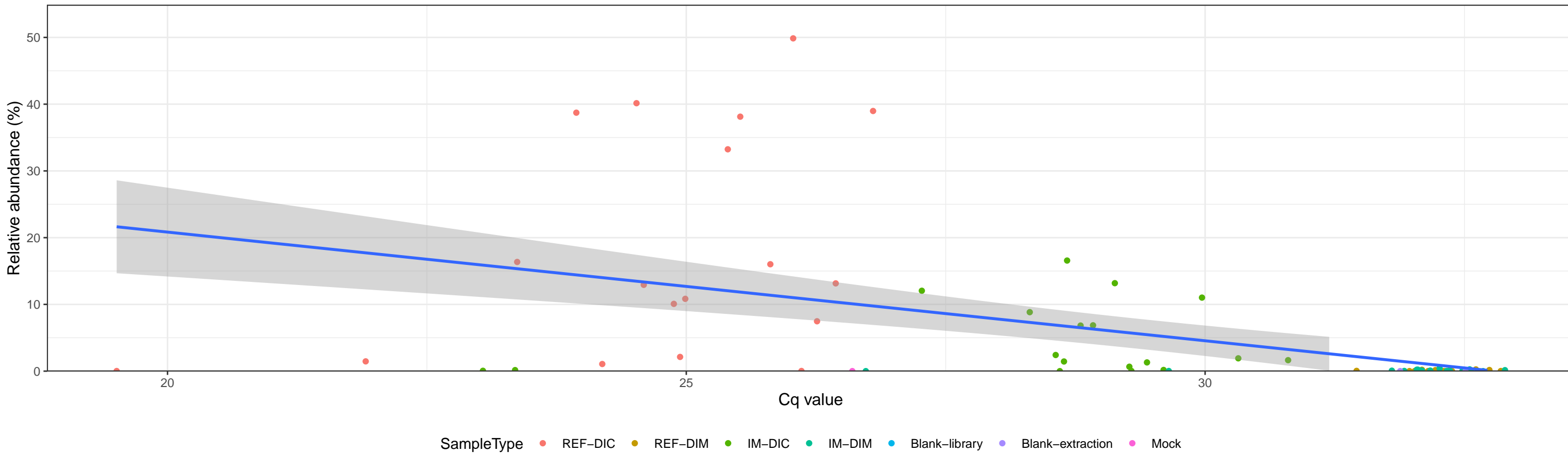
Correlation within the sample type: REF-DIC





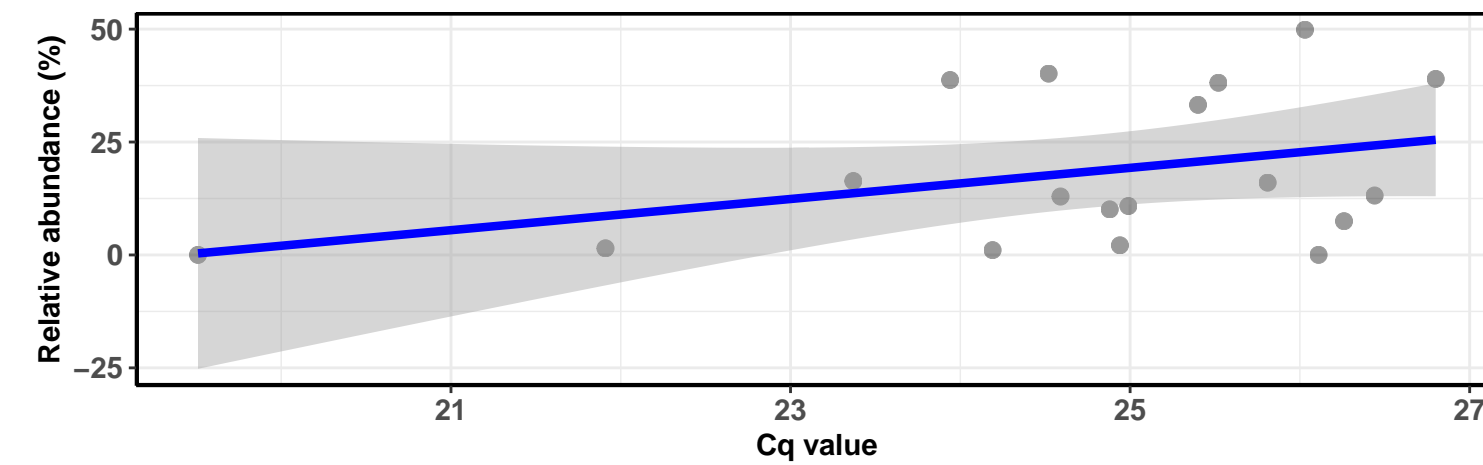
D\_0\_\_Bacteria; D\_1\_\_Tenericutes; D\_2\_\_Mollicutes; D\_3\_\_Mycoplasmatales; D\_4\_\_Mycoplasmataceae; D\_5\_\_Mycoplasma; D\_6\_\_uncultured bacterium

Correlation with all samples



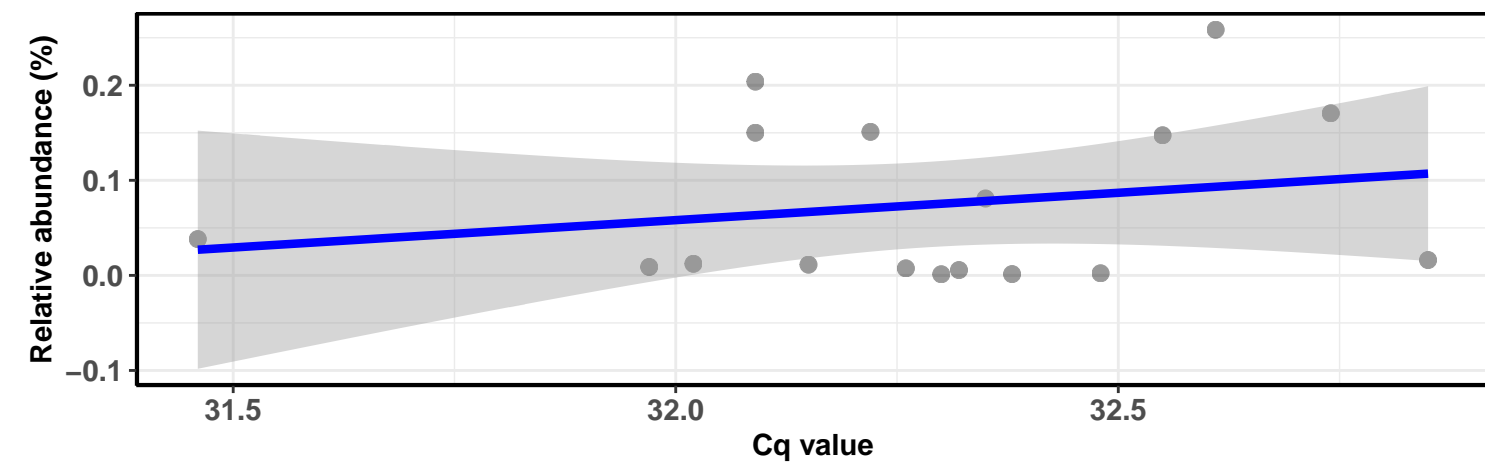
Correlation within the sample type: REF-DIC

$\log_e(S) = 6.560$ ,  $p = 0.276$ ,  $\rho_{\text{Spearman}} = 0.271$ ,  $CI_{95\%} [-0.224, 0.655]$ ,  $n = 18$



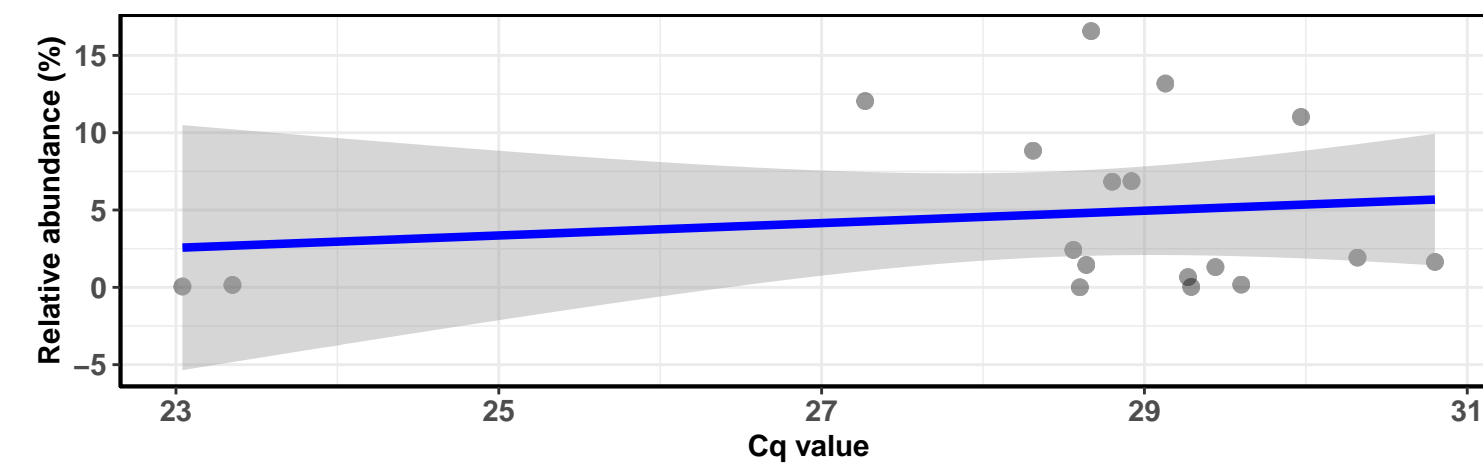
Correlation within the sample type: REF-DIM

$\log_e(S) = 6.632$ ,  $p = 0.790$ ,  $\rho_{\text{Spearman}} = 0.070$ ,  $CI_{95\%} [-0.425, 0.533]$ ,  $n = 17$



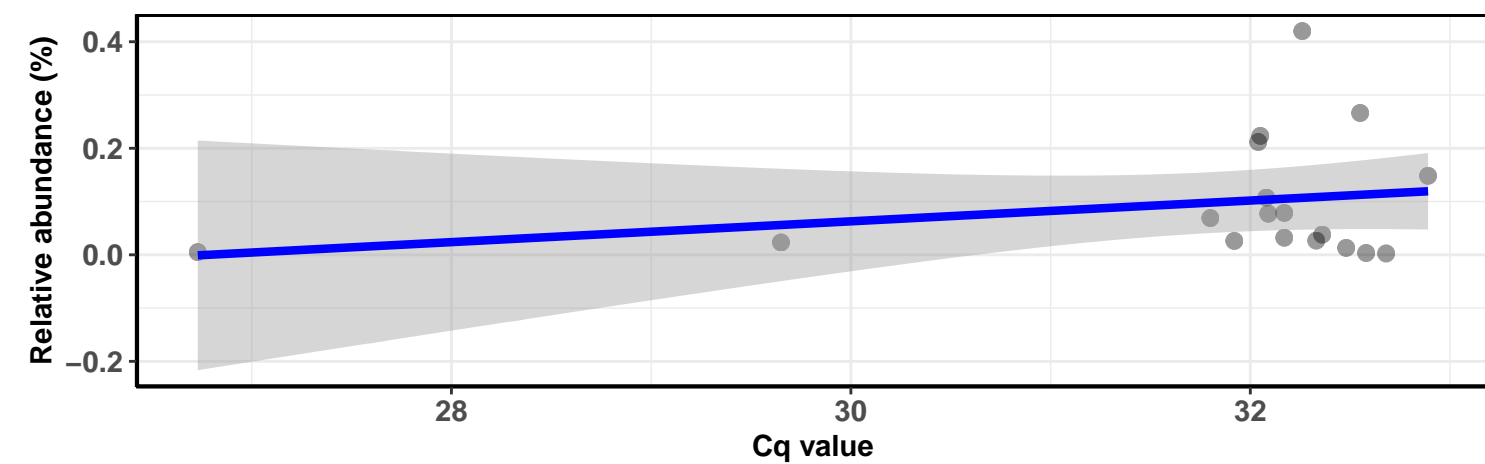
Correlation within the sample type: IM-DIC

$\log_e(S) = 6.835$ ,  $p = 0.874$ ,  $\rho_{\text{Spearman}} = 0.040$ ,  $CI_{95\%} [-0.435, 0.498]$ ,  $n = 18$



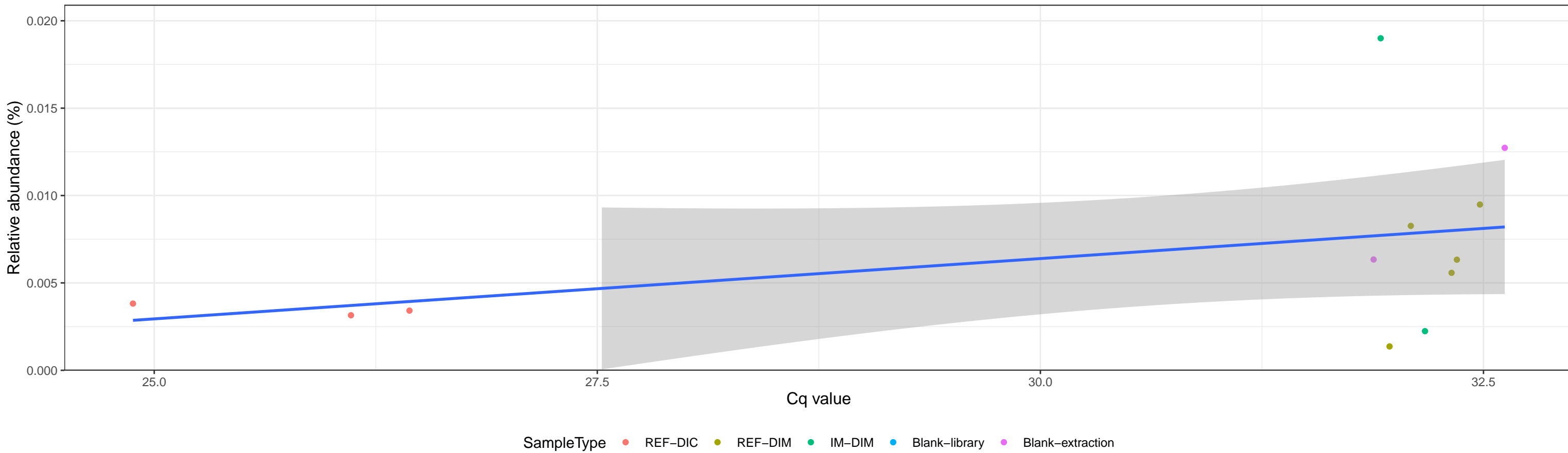
Correlation within the sample type: IM-DIM

$\log_e(S) = 6.890$ ,  $p = 0.958$ ,  $\rho_{\text{Spearman}} = -0.013$ ,  $CI_{95\%} [-0.477, 0.456]$ ,  $n = 18$

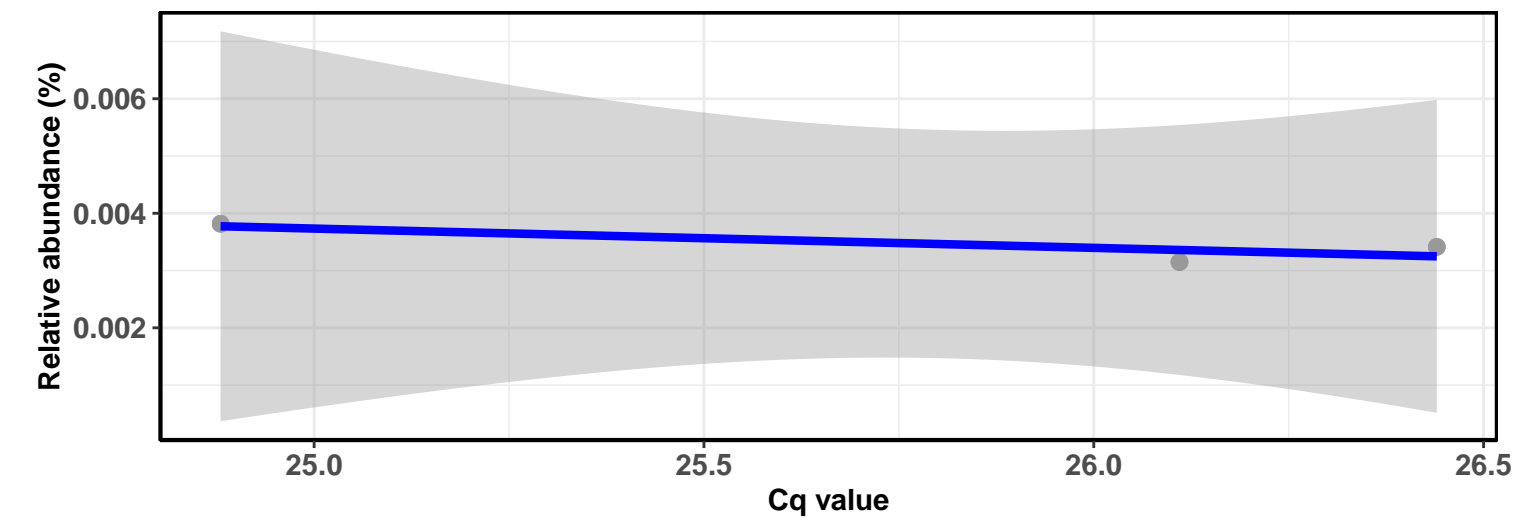


D\_0\_\_Bacteria; D\_1\_\_Proteobacteria; D\_2\_\_Alphaproteobacteria; D\_3\_\_Caulobacterales; D\_4\_\_Caulobacteraceae; D\_5\_\_Brevundimonas; Ambiguous\_taxa

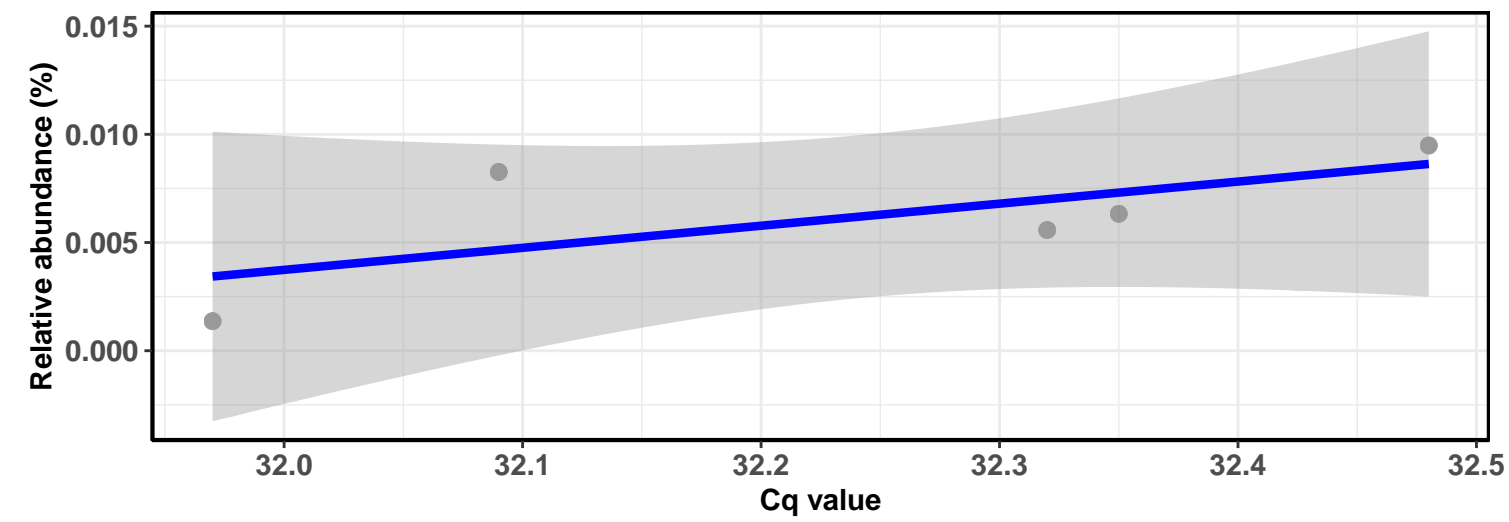
Correlation with all samples



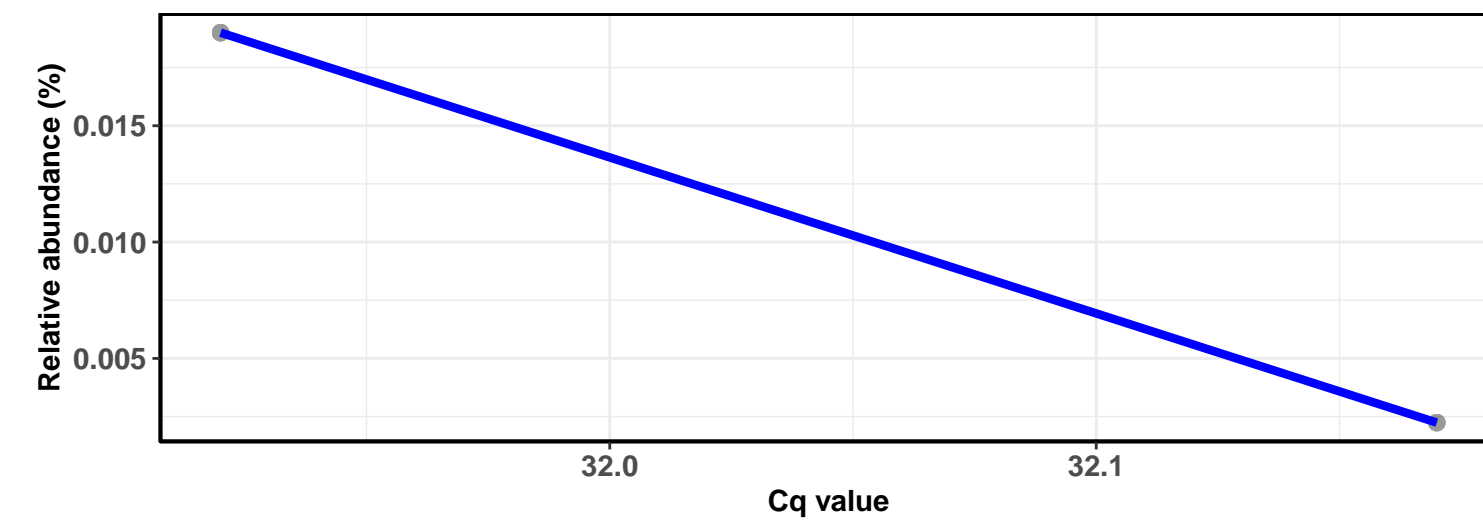
Correlation within the sample type: REF-DIC



Correlation within the sample type: REF-DIM

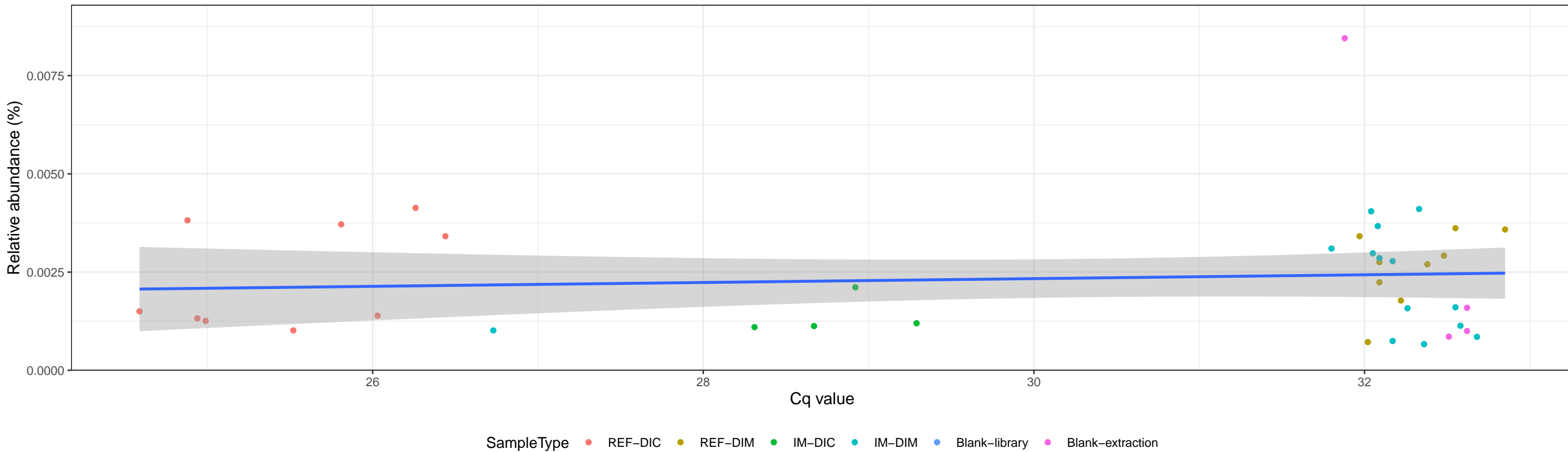


Correlation within the sample type: IM-DIM



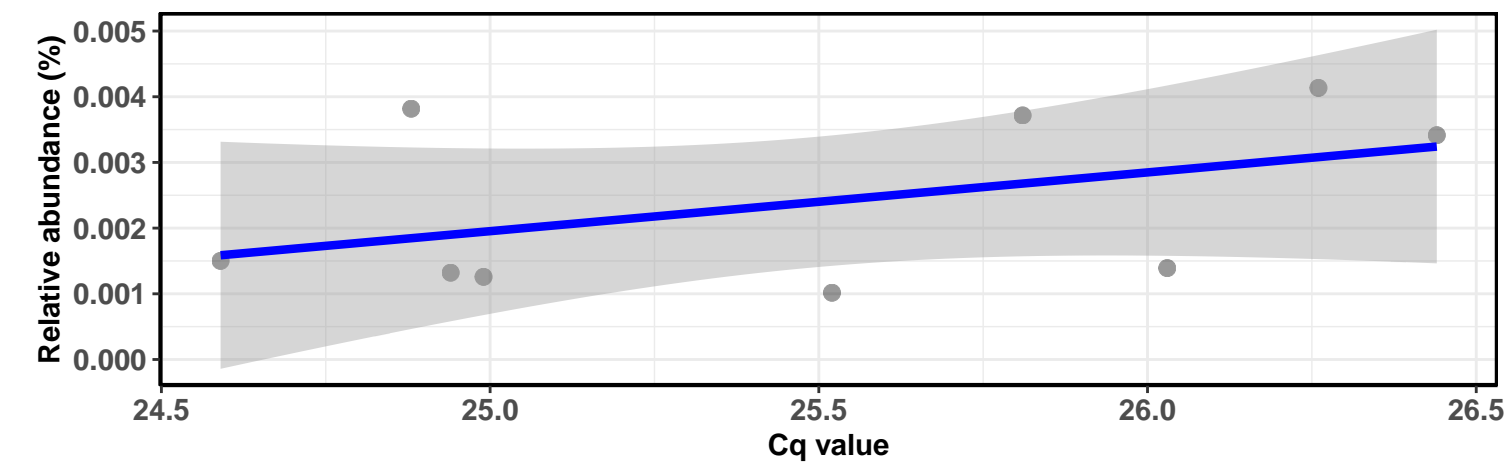
D\_0\_\_Bacteria; D\_1\_\_Proteobacteria; D\_2\_\_Gammaproteobacteria; D\_3\_\_Pseudomonadales; D\_4\_\_Pseudomonadaceae; D\_5\_\_Pseudomonas

Correlation with all samples



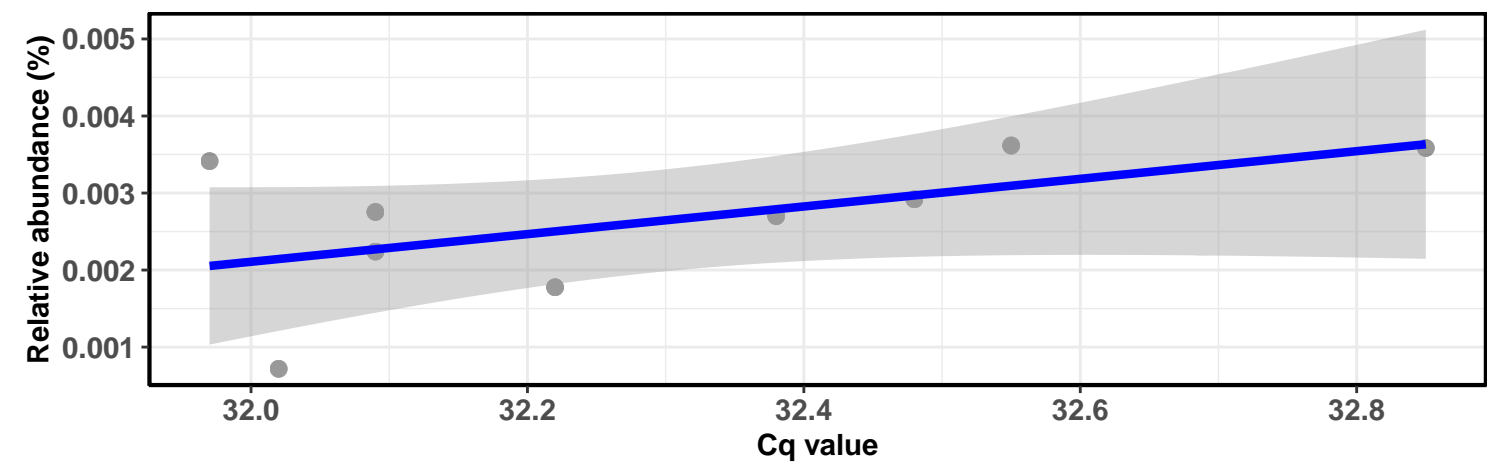
Correlation within the sample type: REF-DIC

$\log_e(S) = 4.522$ ,  $p = 0.546$ ,  $\rho_{\text{Spearman}} = 0.233$ ,  $CI_{95\%} [-0.510, 0.777]$ ,  $n = 9$

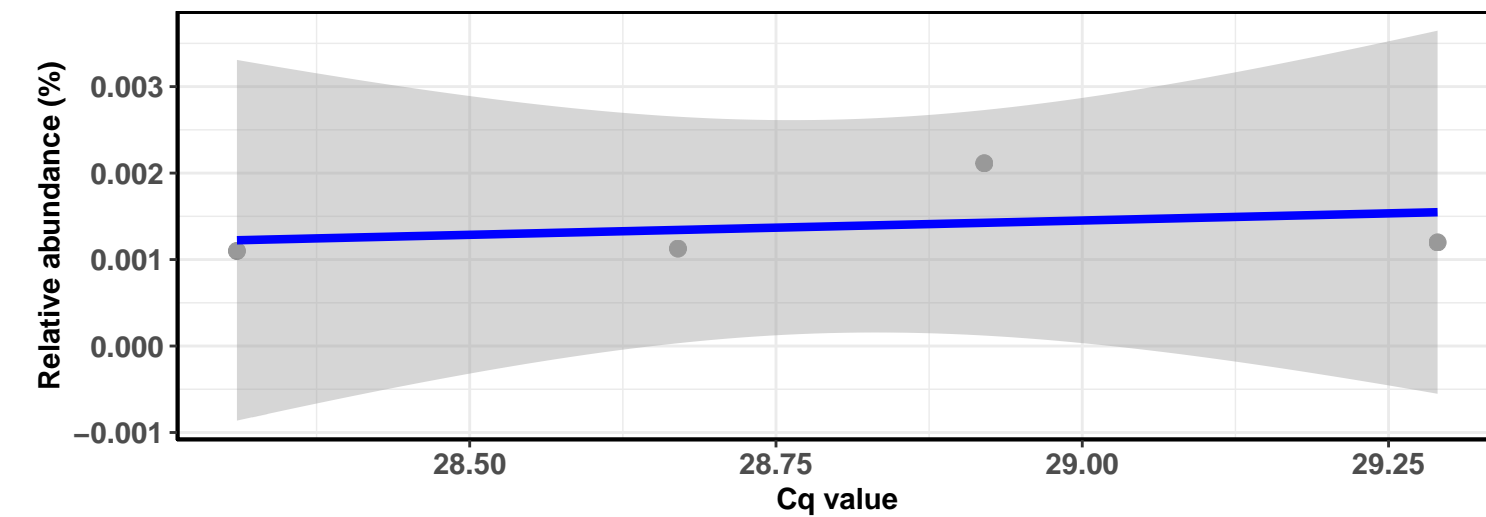


Correlation within the sample type: REF-DIM

$\log_e(S) = 4.021$ ,  $p = 0.137$ ,  $\rho_{\text{Spearman}} = 0.536$ ,  $CI_{95\%} [-0.200, 0.885]$ ,  $n = 9$

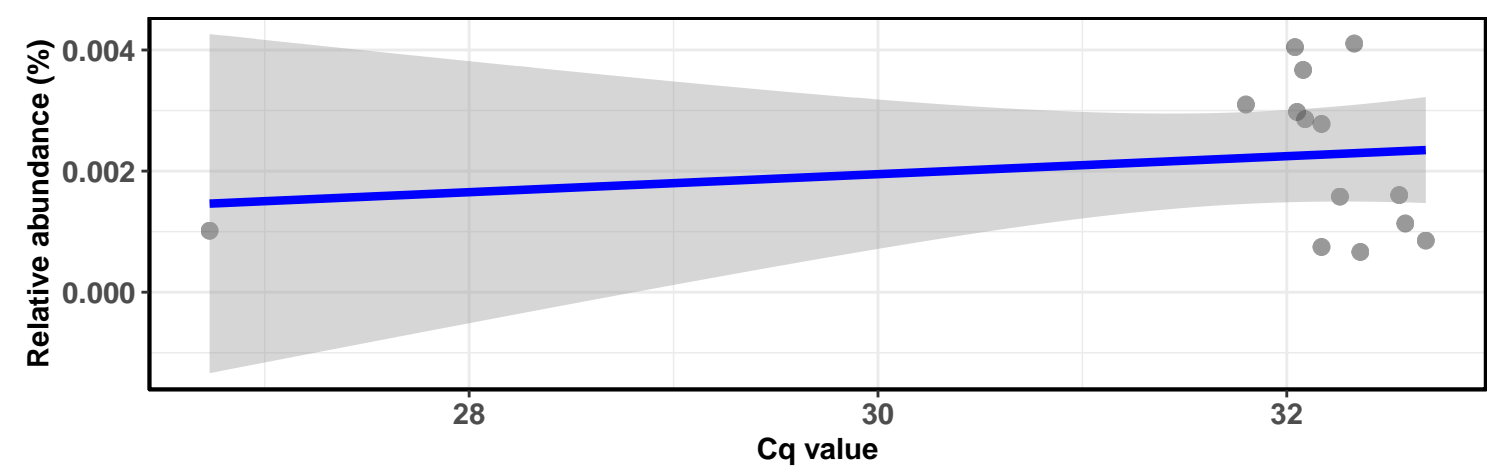


Correlation within the sample type: IM-DIC



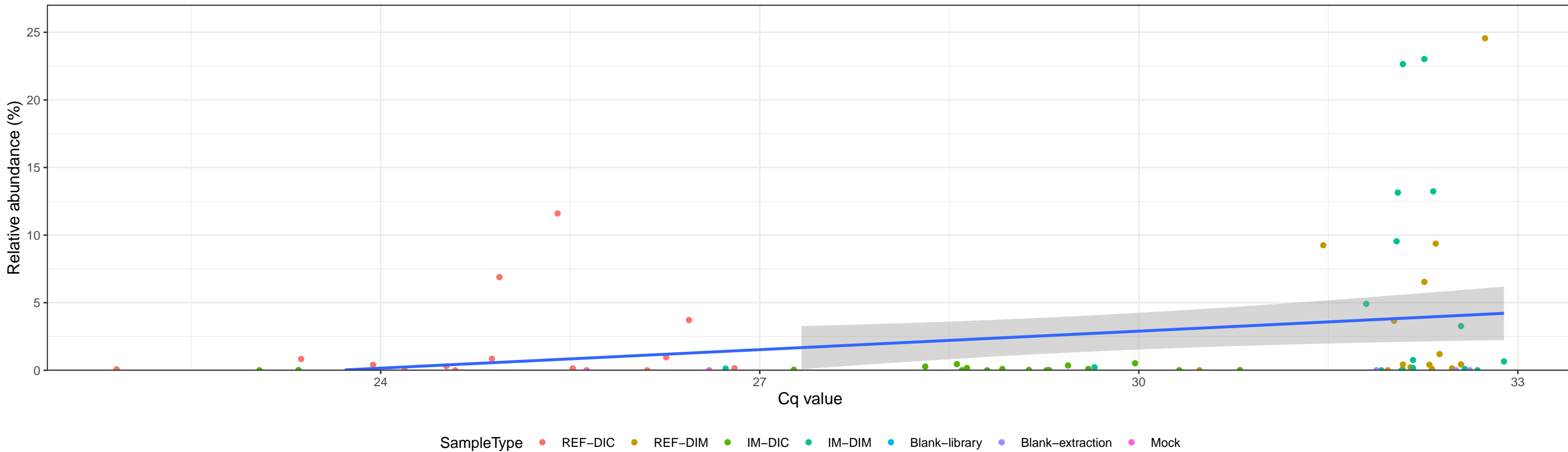
Correlation within the sample type: IM-DIM

$\log_e(S) = 6.477$ ,  $p = 0.126$ ,  $\rho_{\text{Spearman}} = -0.429$ ,  $CI_{95\%} [-0.782, 0.131]$ ,  $n = 14$



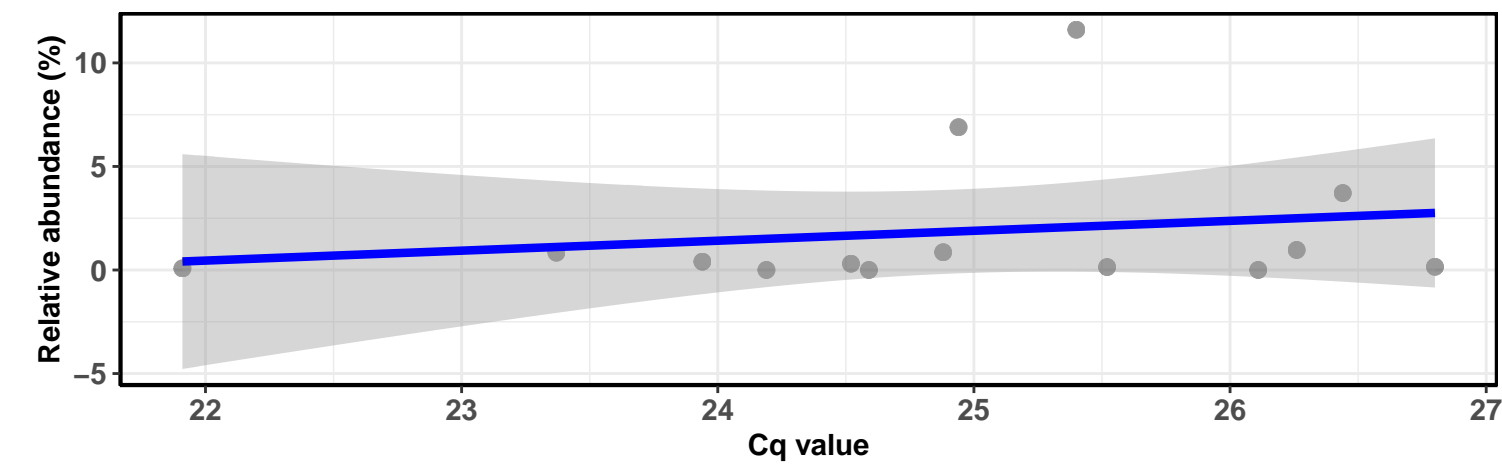
D\_0\_\_Bacteria; D\_1\_\_Spirochaetes; D\_2\_\_Spirochaetia; D\_3\_\_Spirochaetales; D\_4\_\_Spirochaetaceae

Correlation with all samples



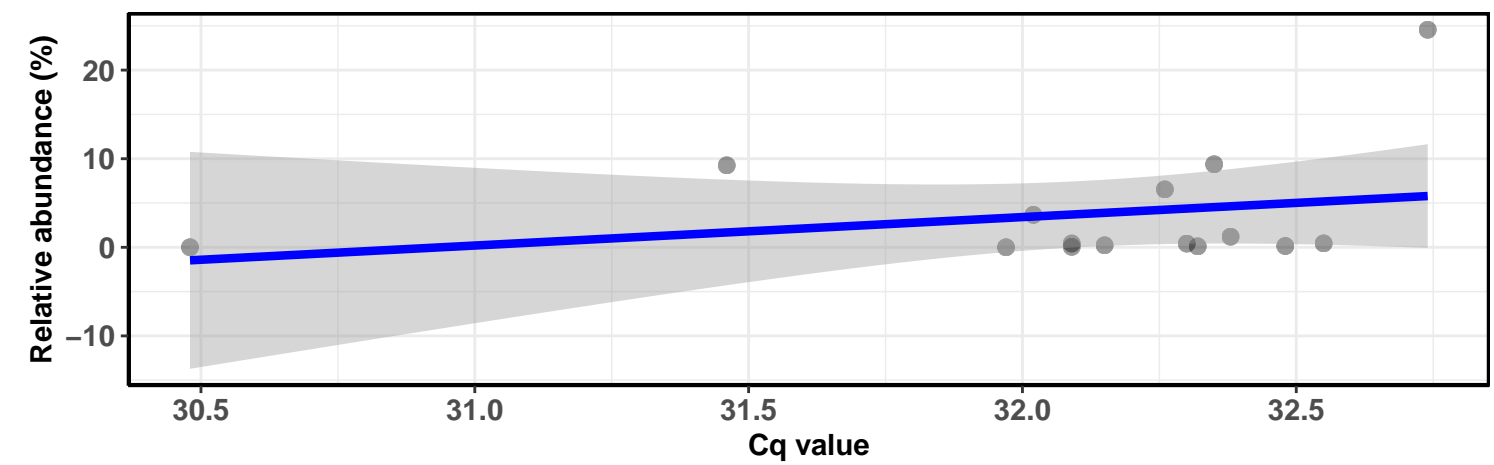
Correlation within the sample type: REF-DIC

$\log_e(S) = 5.799$ ,  $p = 0.342$ ,  $\rho_{\text{Spearman}} = 0.275$ ,  $CI_{95\%} [-0.300, 0.703]$ ,  $n = 14$



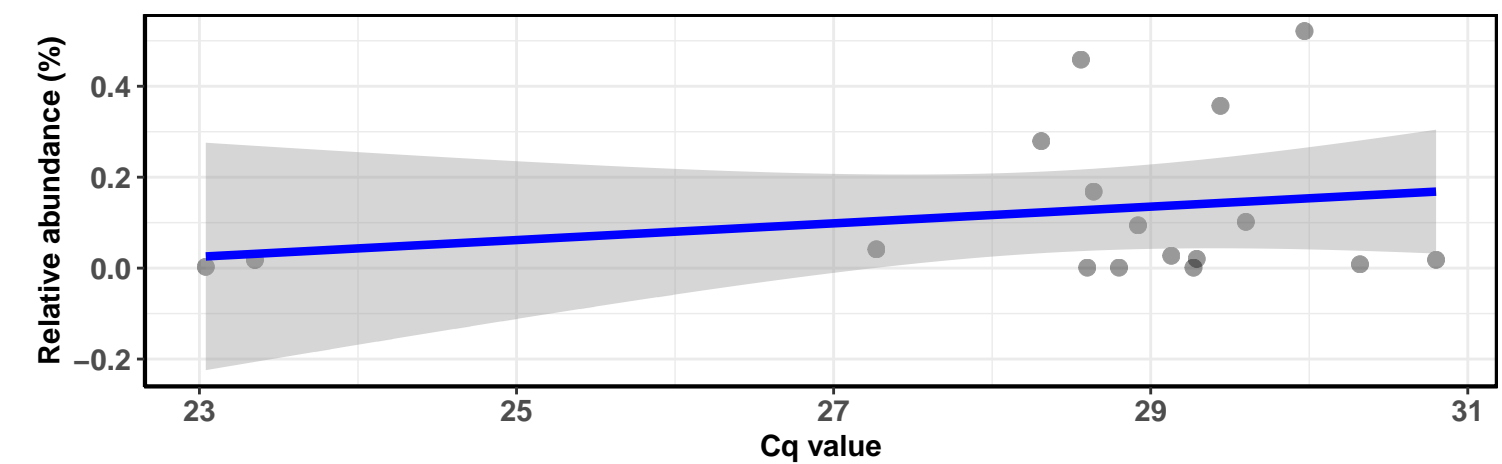
Correlation within the sample type: REF-DIM

$\log_e(S) = 5.849$ ,  $p = 0.162$ ,  $\rho_{\text{Spearman}} = 0.381$ ,  $CI_{95\%} [-0.163, 0.747]$ ,  $n = 15$



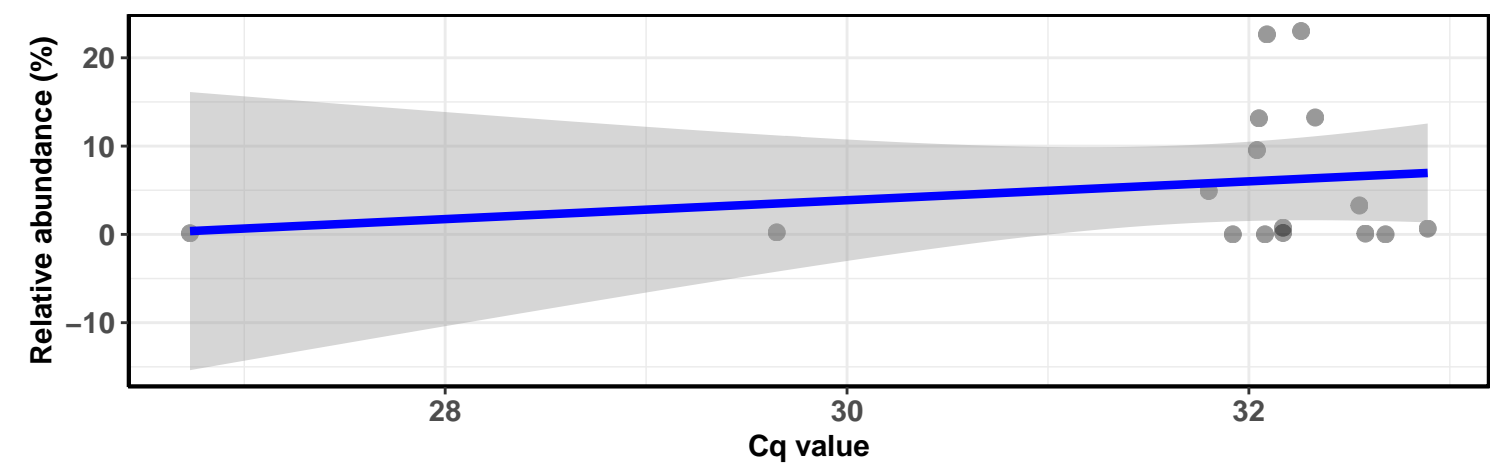
Correlation within the sample type: IM-DIC

$\log_e(S) = 6.588$ ,  $p = 0.673$ ,  $\rho_{\text{Spearman}} = 0.110$ ,  $CI_{95\%} [-0.391, 0.561]$ ,  $n = 17$



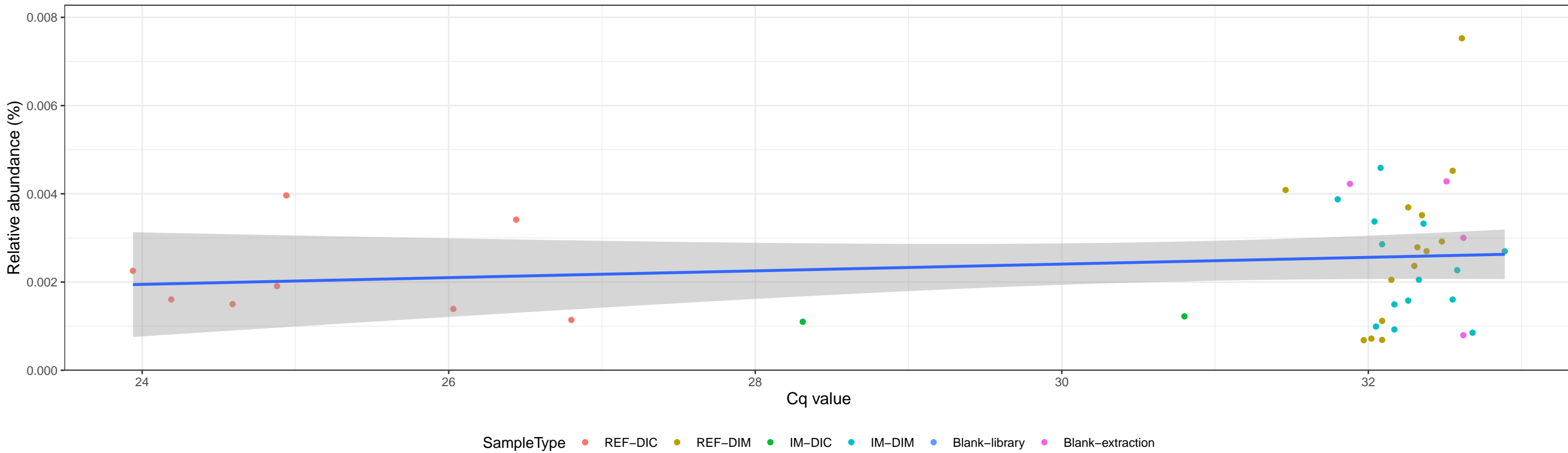
Correlation within the sample type: IM-DIM

$\log_e(S) = 6.494$ ,  $p = 0.918$ ,  $\rho_{\text{Spearman}} = 0.028$ ,  $CI_{95\%} [-0.474, 0.517]$ ,  $n = 16$



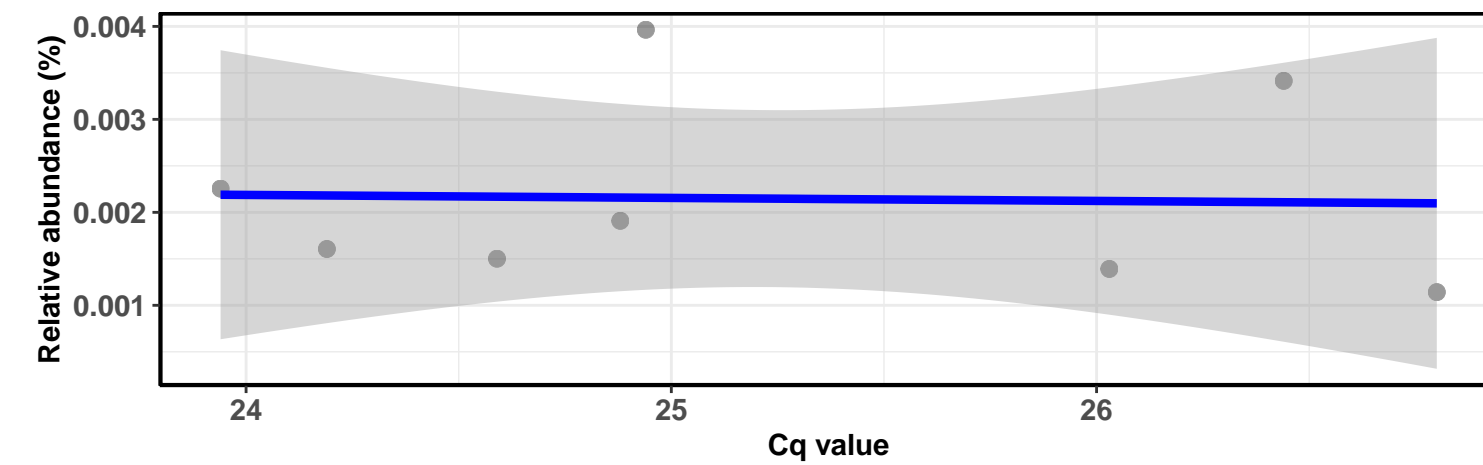
D\_0\_\_Bacteria; D\_1\_\_Proteobacteria; D\_2\_\_Gammaproteobacteria; D\_3\_\_Pseudomonadales; D\_4\_\_Pseudomonadaceae; D\_5\_\_Pseudomonas

Correlation with all samples



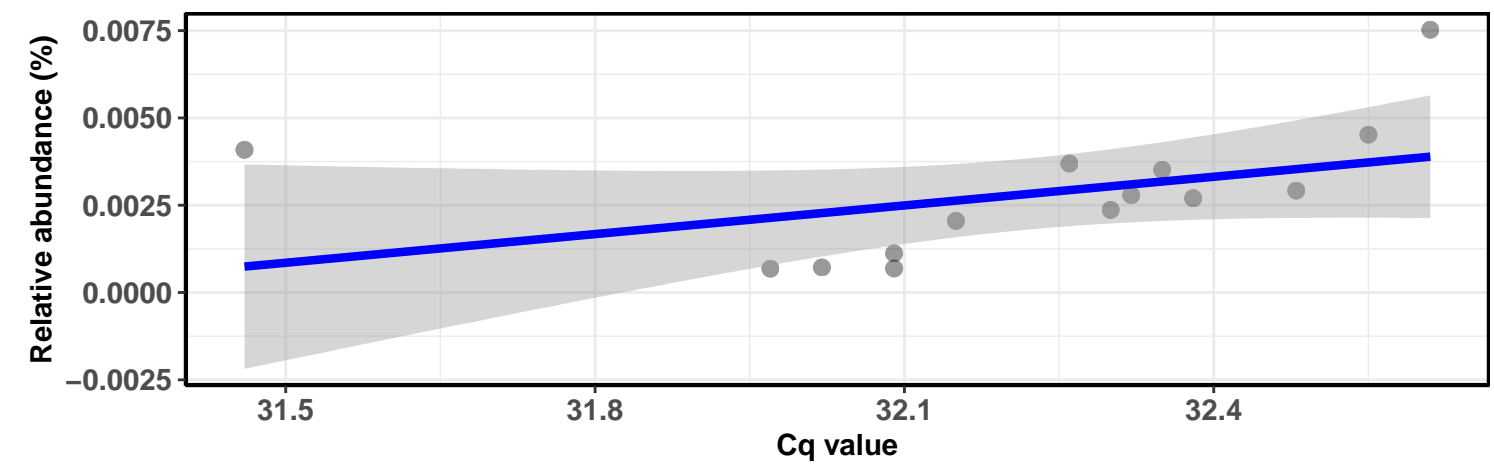
Correlation within the sample type: REF-DIC

$\log_e(S) = 4.644$ ,  $p = 0.570$ ,  $\rho_{\text{Spearman}} = -0.238$ ,  $CI_{95\%} [-0.807, 0.561]$ ,  $n = 8$

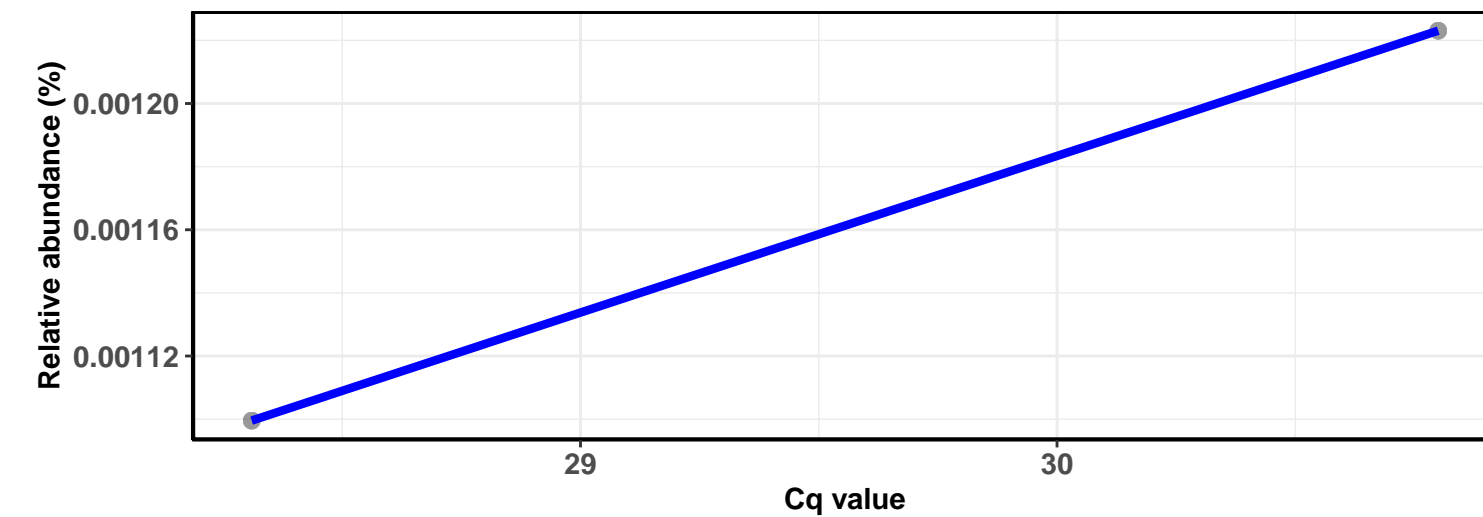


Correlation within the sample type: REF-DIM

$\log_e(S) = 5.169$ ,  $p = 0.020$ ,  $\rho_{\text{Spearman}} = 0.614$ ,  $CI_{95\%} [0.124, 0.863]$ ,  $n = 14$

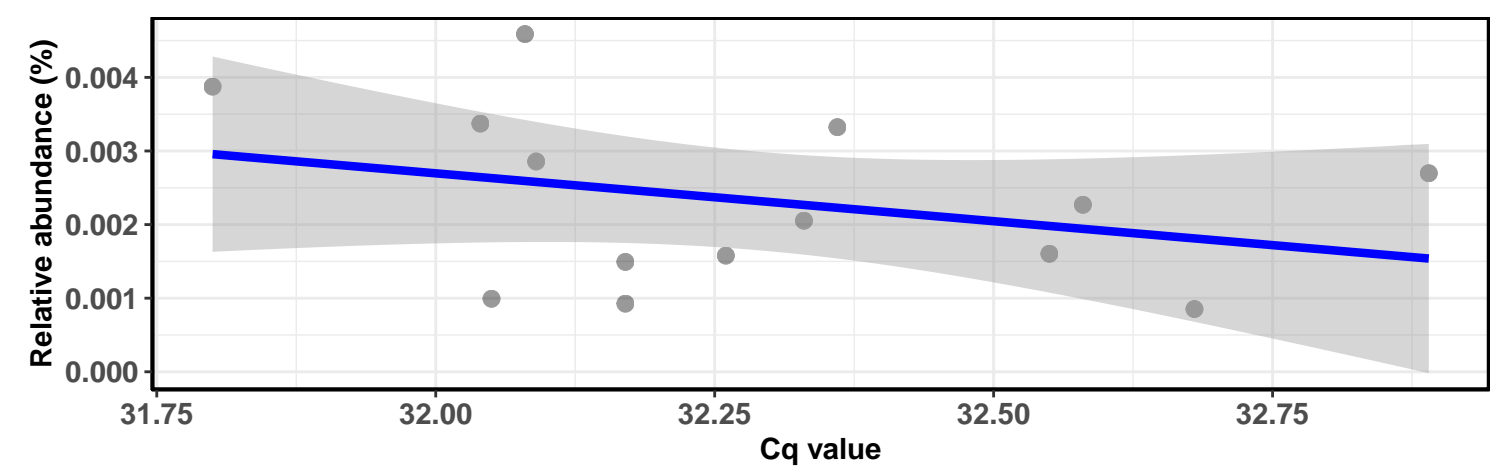


Correlation within the sample type: IM-DIC



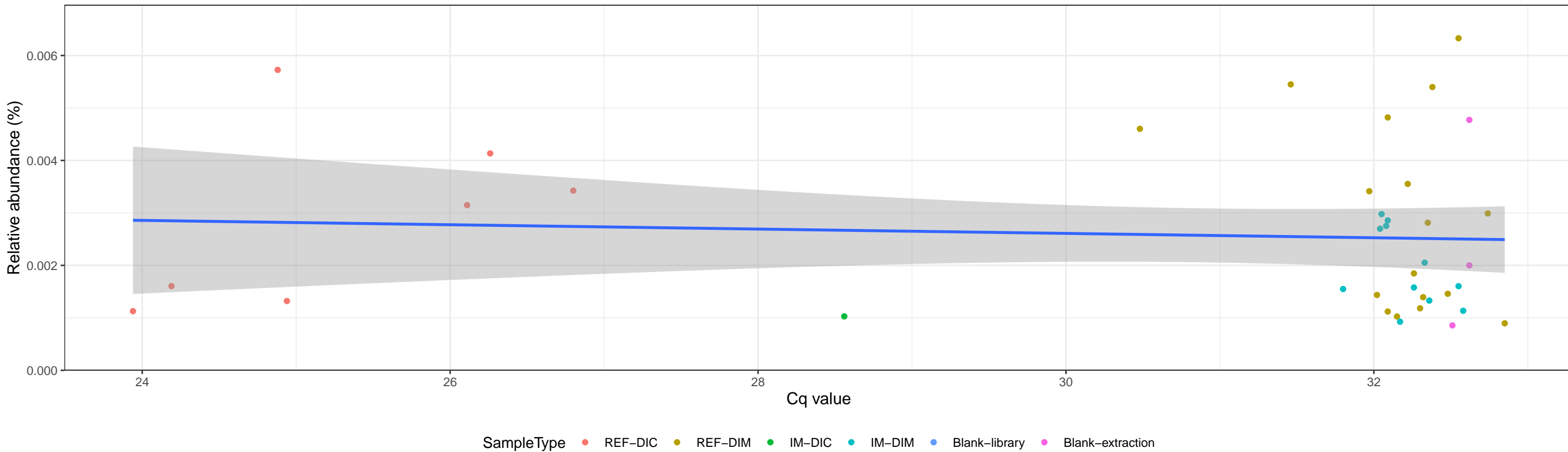
Correlation within the sample type: IM-DIM

$\log_e(S) = 6.430$ ,  $p = 0.202$ ,  $\rho_{\text{Spearman}} = -0.363$ ,  $CI_{95\%} [-0.749, 0.208]$ ,  $n = 14$



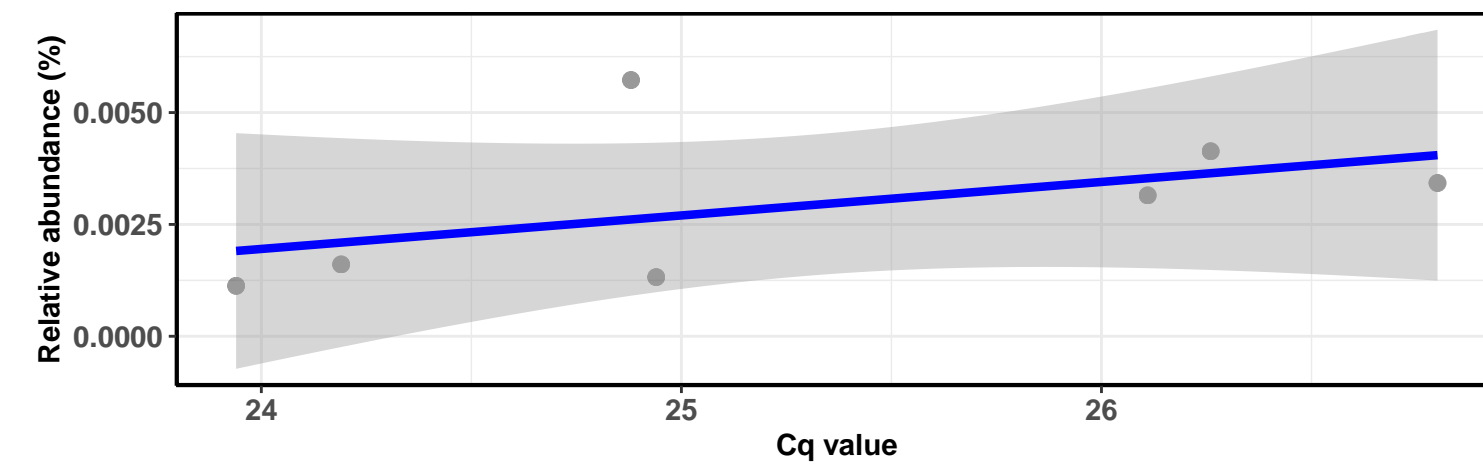
D\_0\_\_Bacteria; D\_1\_\_Proteobacteria; D\_2\_\_Gammaproteobacteria; D\_3\_\_Pseudomonadales; D\_4\_\_Pseudomonadaceae; D\_5\_\_Pseudomonas

### Correlation with all samples



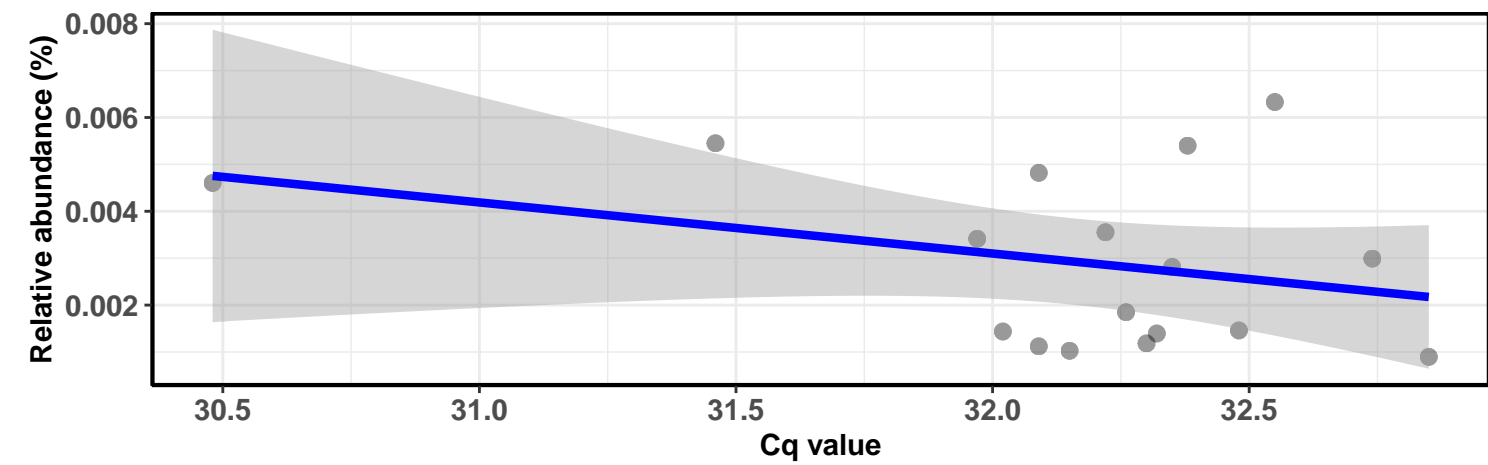
#### Correlation within the sample type: REF-DIC

$\log_e(S) = 3.258$ ,  $p = 0.215$ ,  $\rho_{\text{Spearman}} = 0.536$ ,  $\text{CI}_{95\%} [-0.364, 0.918]$ ,  $n = 7$

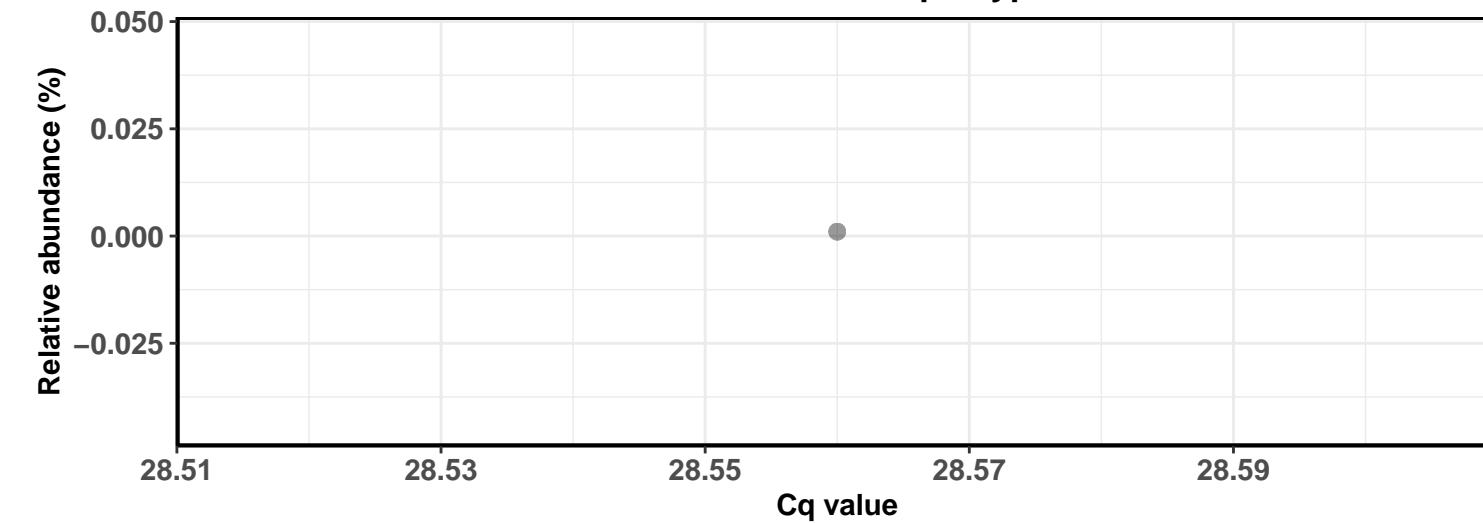


#### Correlation within the sample type: REF-DIM

$\log_e(S) = 6.866$ ,  $p = 0.501$ ,  $\rho_{\text{Spearman}} = -0.175$ ,  $\text{CI}_{95\%} [-0.605, 0.333]$ ,  $n = 17$

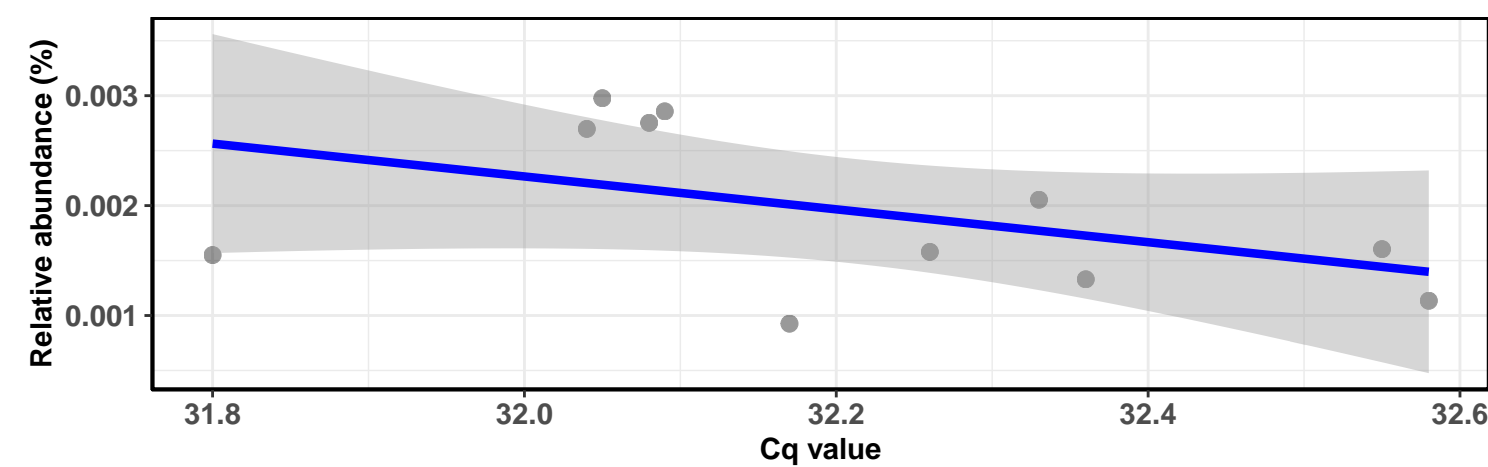


#### Correlation within the sample type: IM-DIC



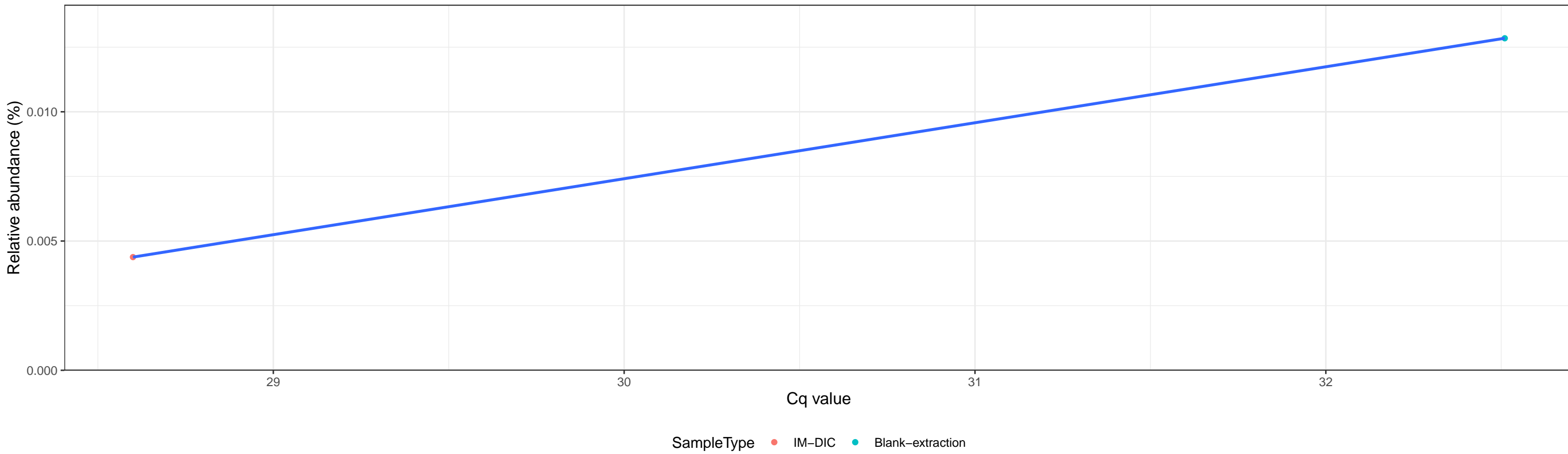
#### Correlation within the sample type: IM-DIM

$\log_e(S) = 5.775$ ,  $p = 0.151$ ,  $\rho_{\text{Spearman}} = -0.464$ ,  $\text{CI}_{95\%} [-0.832, 0.189]$ ,  $n = 11$

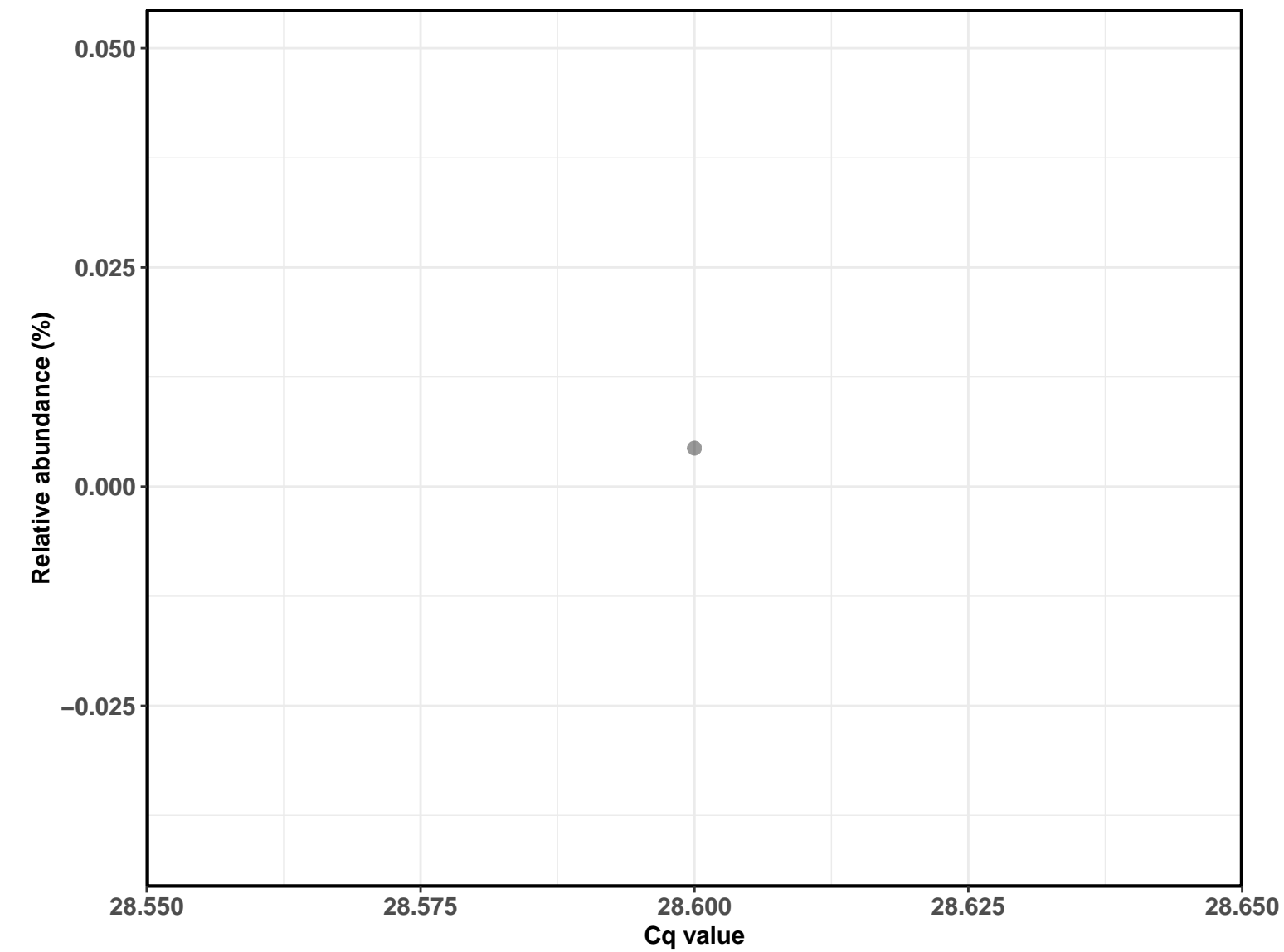


D\_0\_\_Bacteria; D\_1\_\_Bacteroidetes; D\_2\_\_Bacteroidia; D\_3\_\_Sphingobacteriales; D\_4\_\_Sphingobacteriaceae; D\_5\_\_Pedobacter

Correlation with all samples

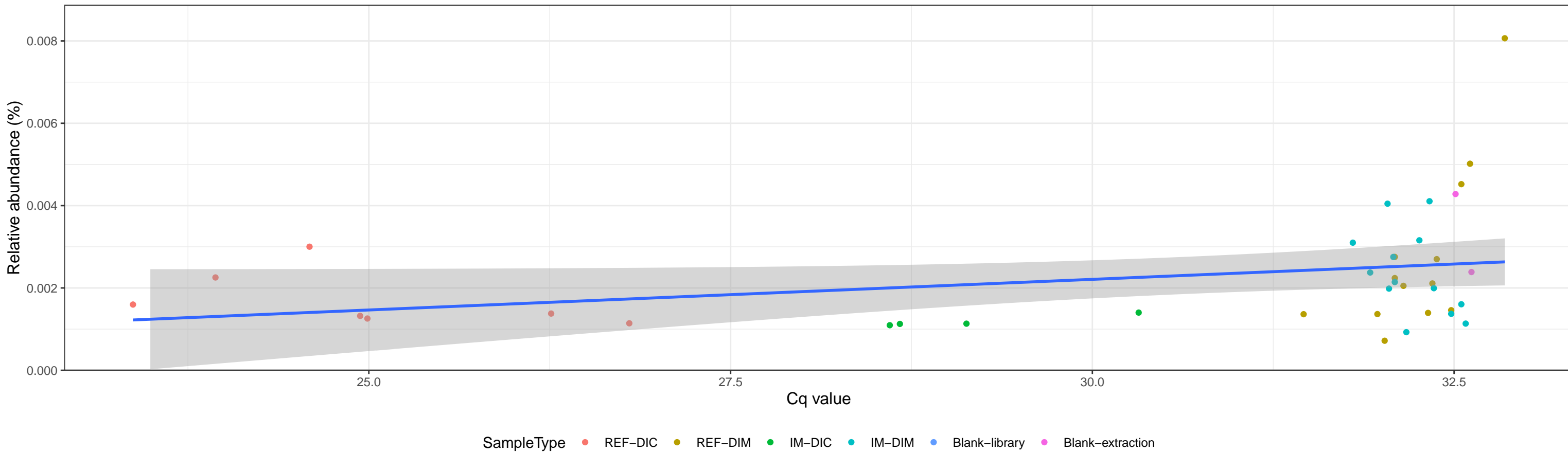


Correlation within the sample type: IM-DIC



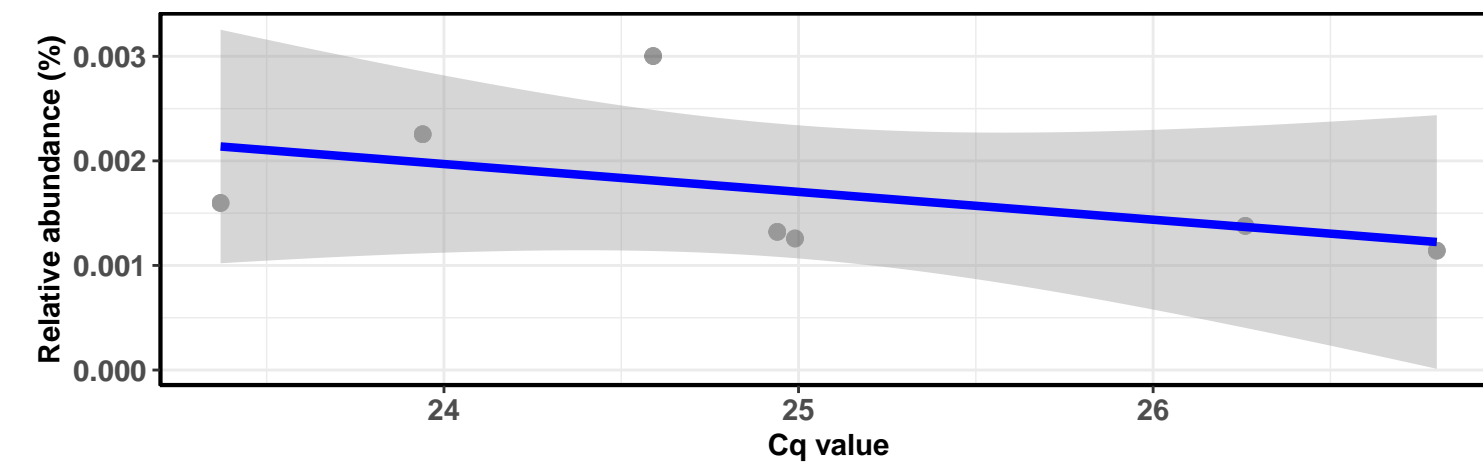
D\_0\_\_Bacteria; D\_1\_\_Proteobacteria; D\_2\_\_Gammaproteobacteria; D\_3\_\_Pseudomonadales; D\_4\_\_Pseudomonadaceae; D\_5\_\_Pseudomonas

Correlation with all samples



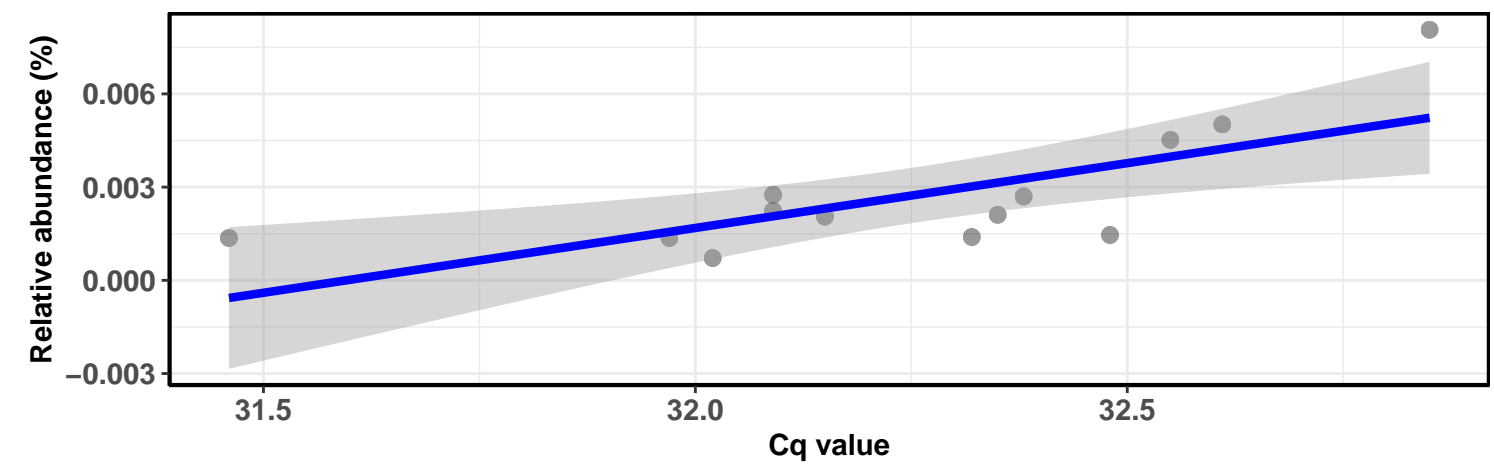
Correlation within the sample type: REF-DIC

$\log_e(S) = 4.585$ ,  $p = 0.052$ ,  $\rho_{\text{Spearman}} = -0.750$ ,  $CI_{95\%} [-0.961, 0.007]$ ,  $n = 7$

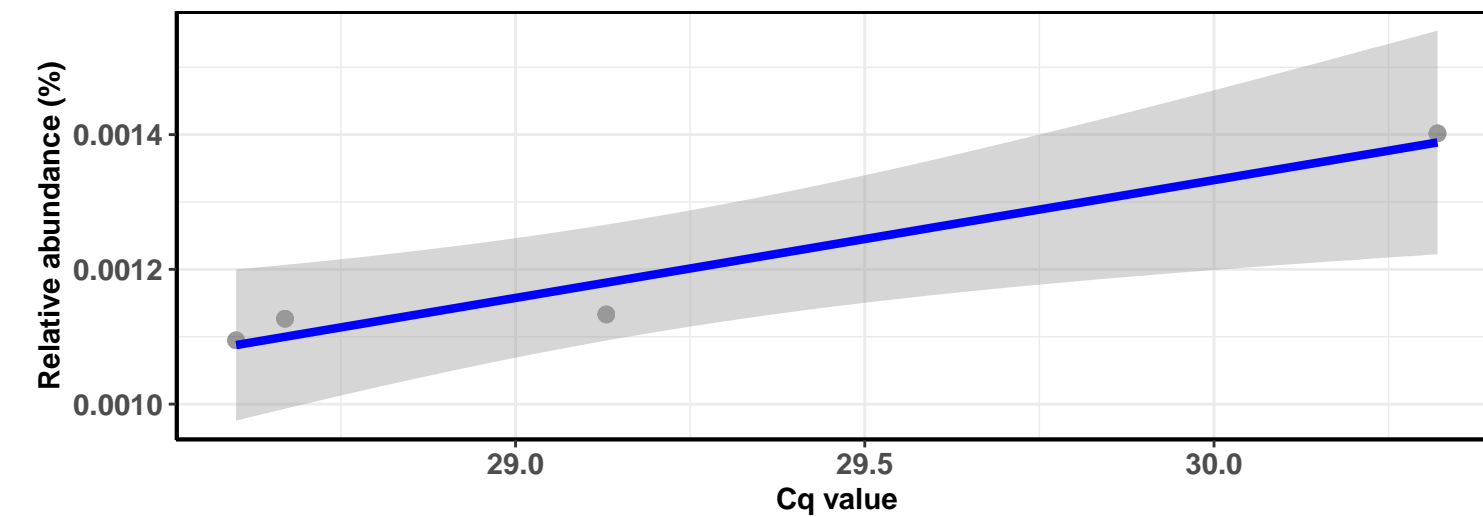


Correlation within the sample type: REF-DIM

$\log_e(S) = 4.426$ ,  $p = 0.002$ ,  $\rho_{\text{Spearman}} = 0.770$ ,  $CI_{95\%} [0.381, 0.928]$ ,  $n = 13$

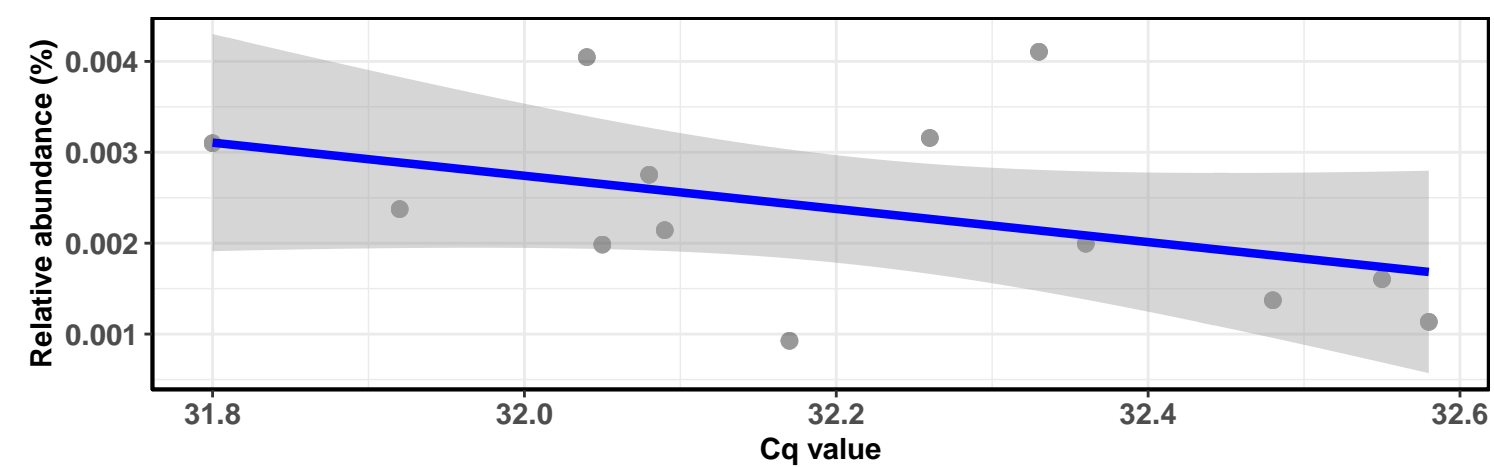


Correlation within the sample type: IM-DIC



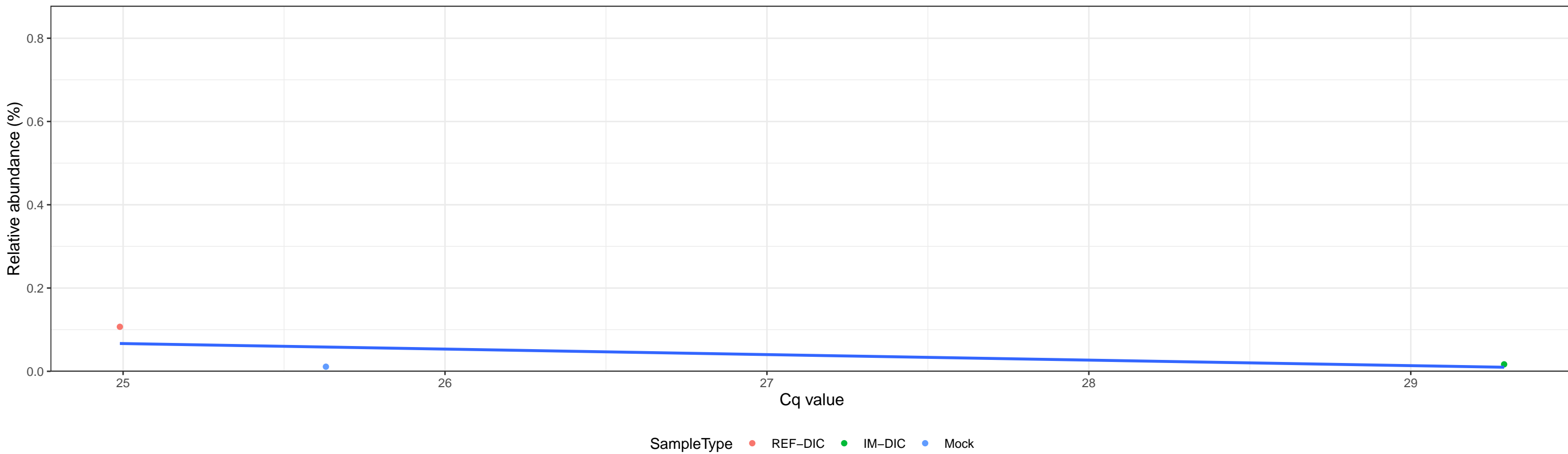
Correlation within the sample type: IM-DIM

$\log_e(S) = 6.295$ ,  $p = 0.090$ ,  $\rho_{\text{Spearman}} = -0.489$ ,  $CI_{95\%} [-0.819, 0.085]$ ,  $n = 13$

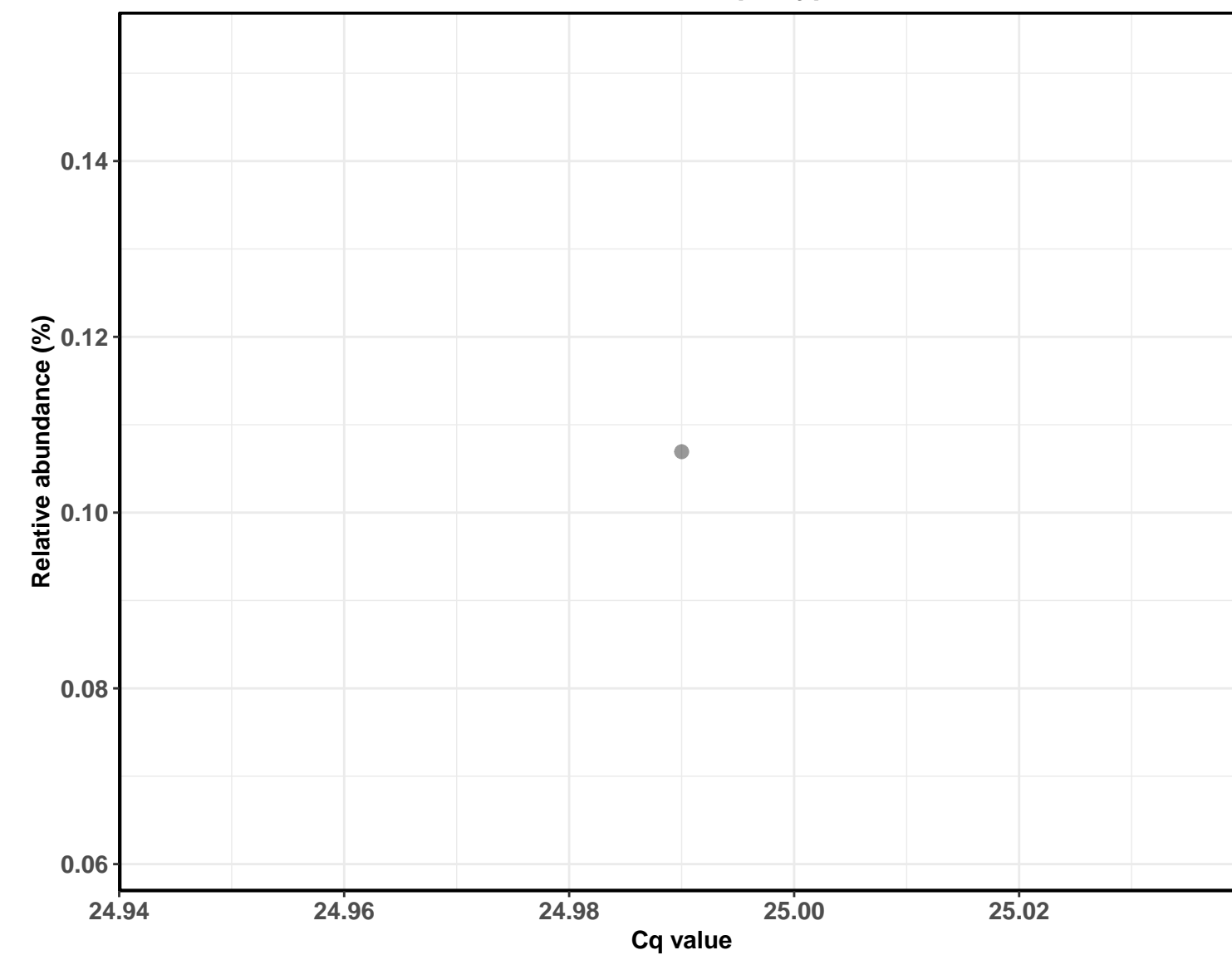




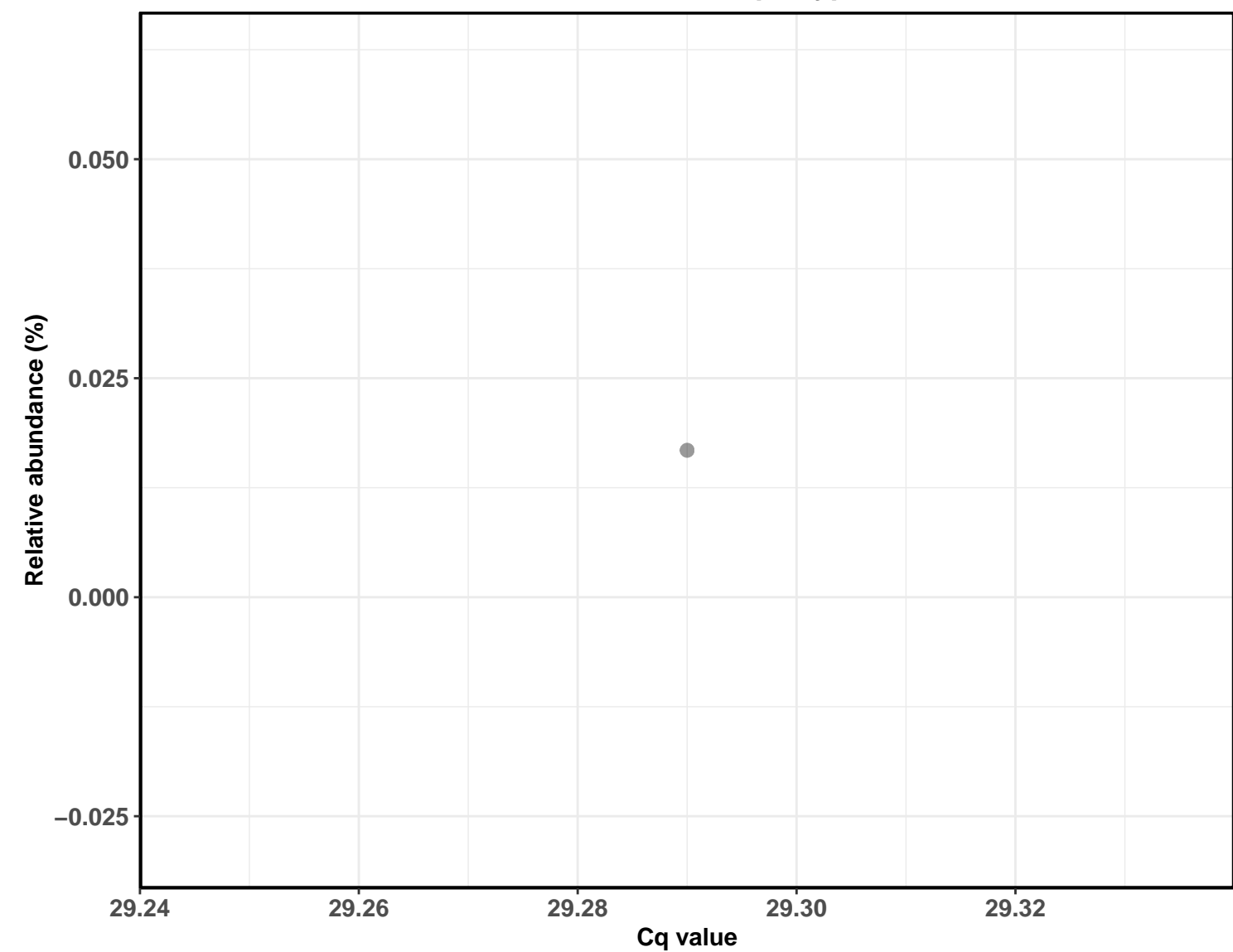
Correlation with all samples



Correlation within the sample type: REF-DIC

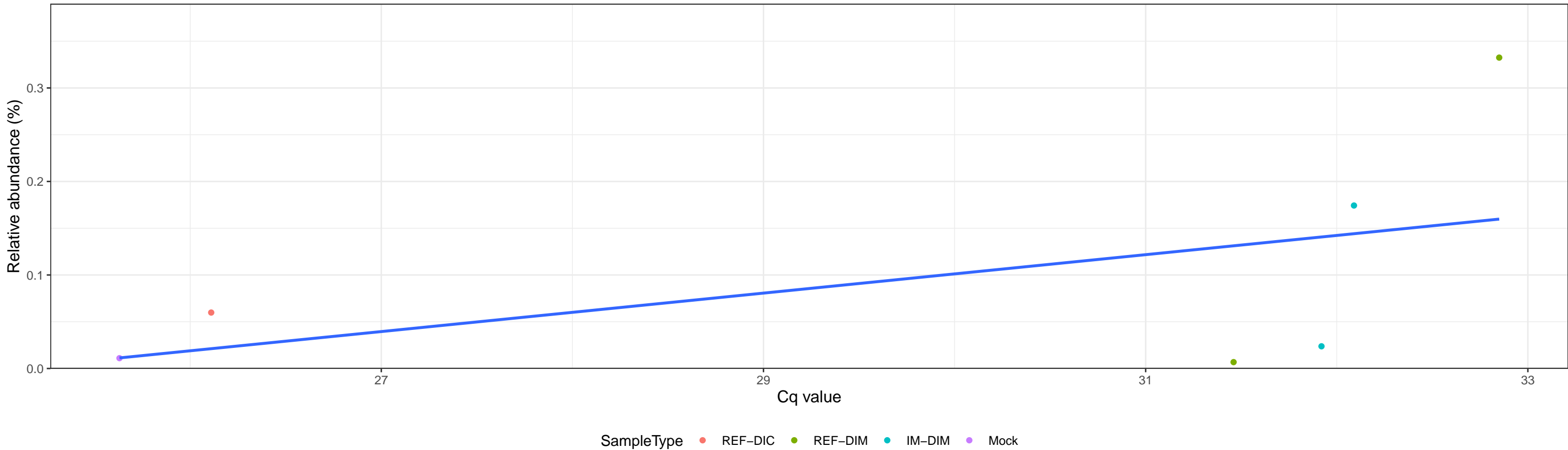


Correlation within the sample type: IM-DIC

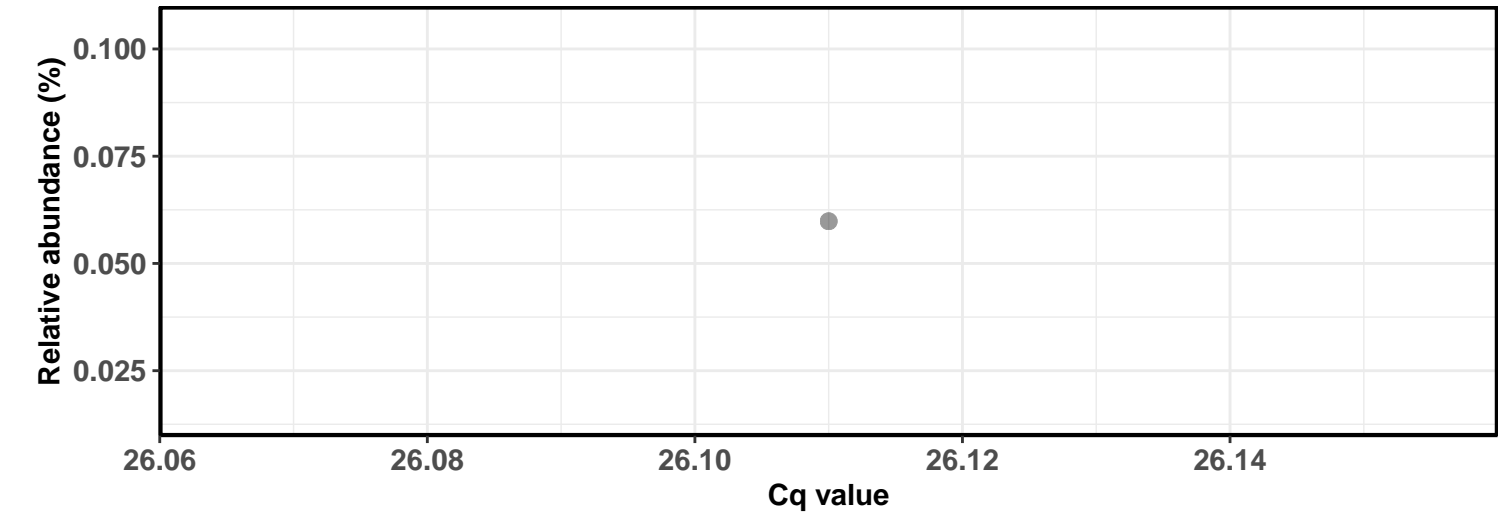


D\_0\_\_Bacteria; D\_1\_\_Proteobacteria; D\_2\_\_Alphaproteobacteria; D\_3\_\_Sphingomonadales; D\_4\_\_Sphingomonadaceae; D\_5\_\_Sphingomonas

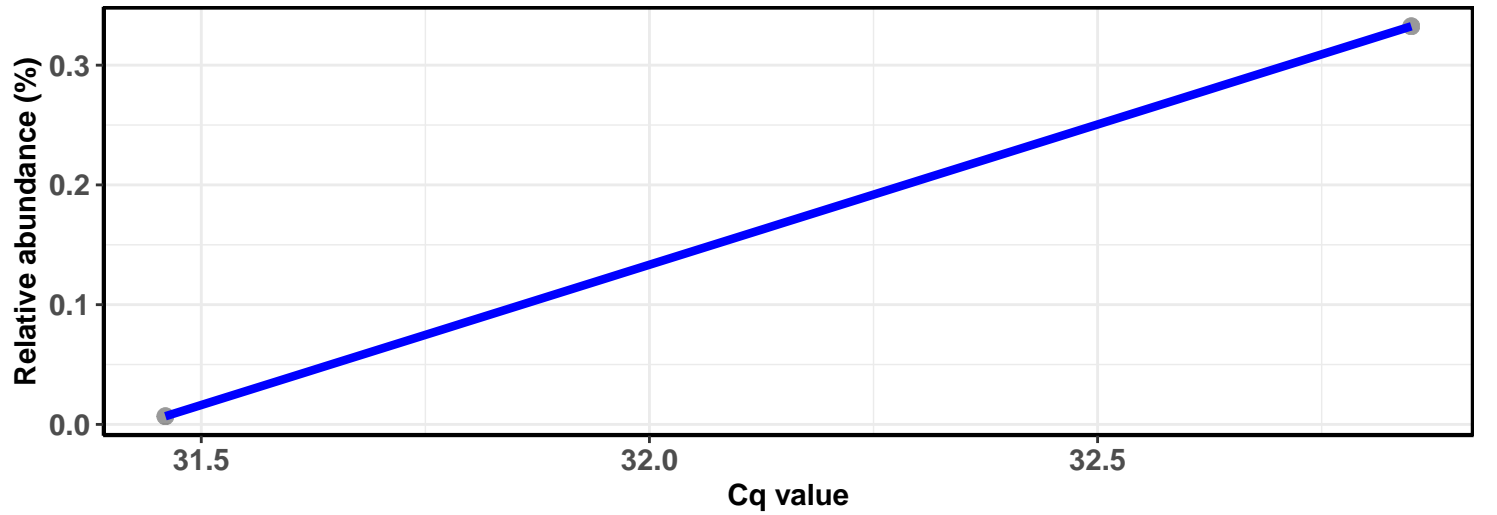
Correlation with all samples



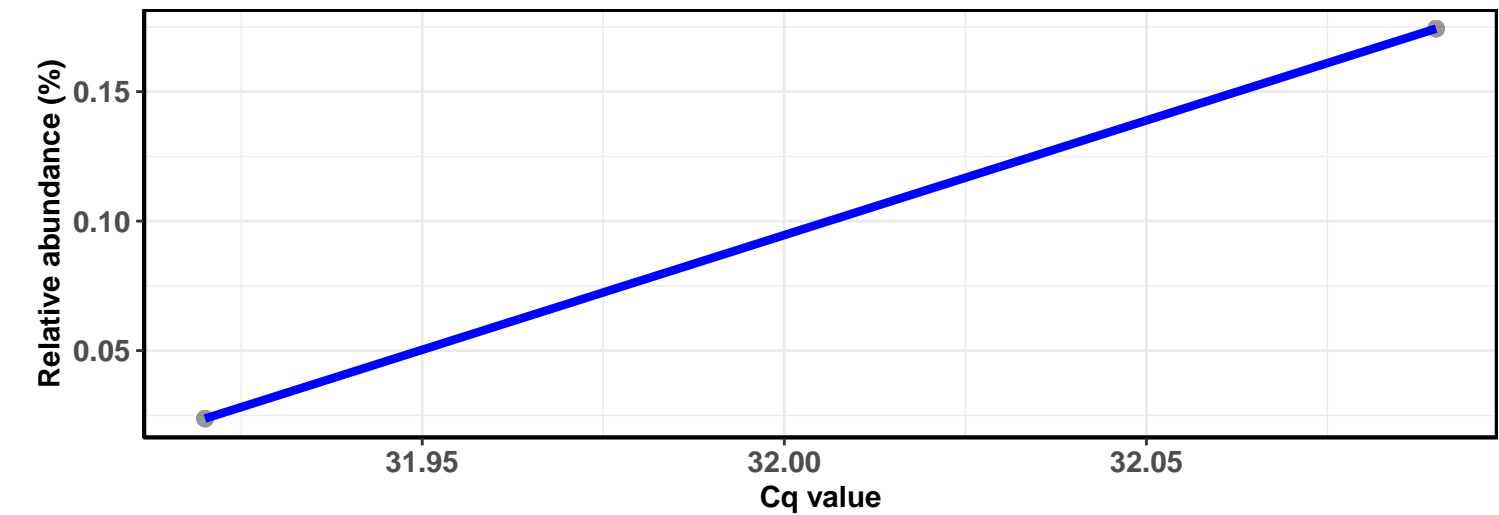
Correlation within the sample type: REF-DIC



Correlation within the sample type: REF-DIM

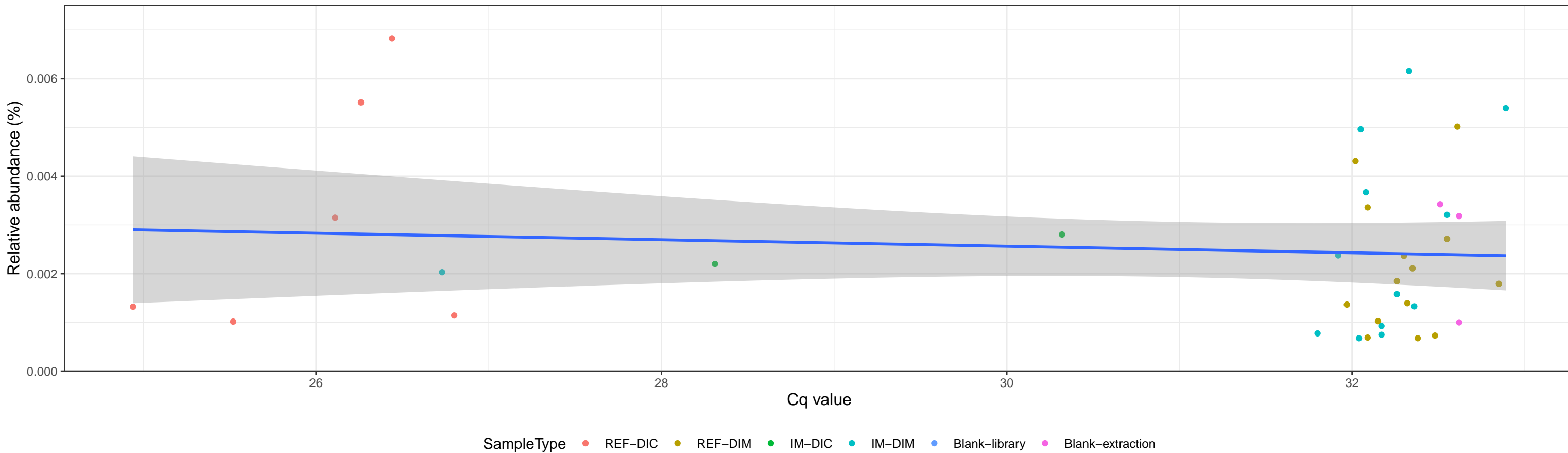


Correlation within the sample type: IM-DIM



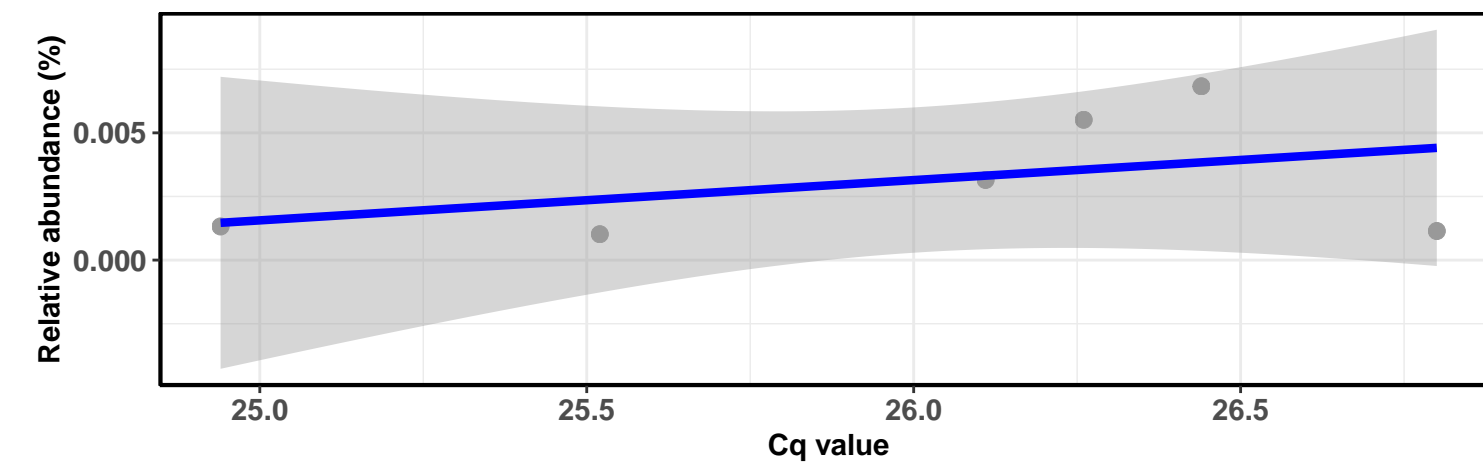
D\_0\_\_Bacteria; D\_1\_\_Proteobacteria; D\_2\_\_Gammaproteobacteria; D\_3\_\_Pseudomonadales; D\_4\_\_Pseudomonadaceae; D\_5\_\_Pseudomonas

Correlation with all samples



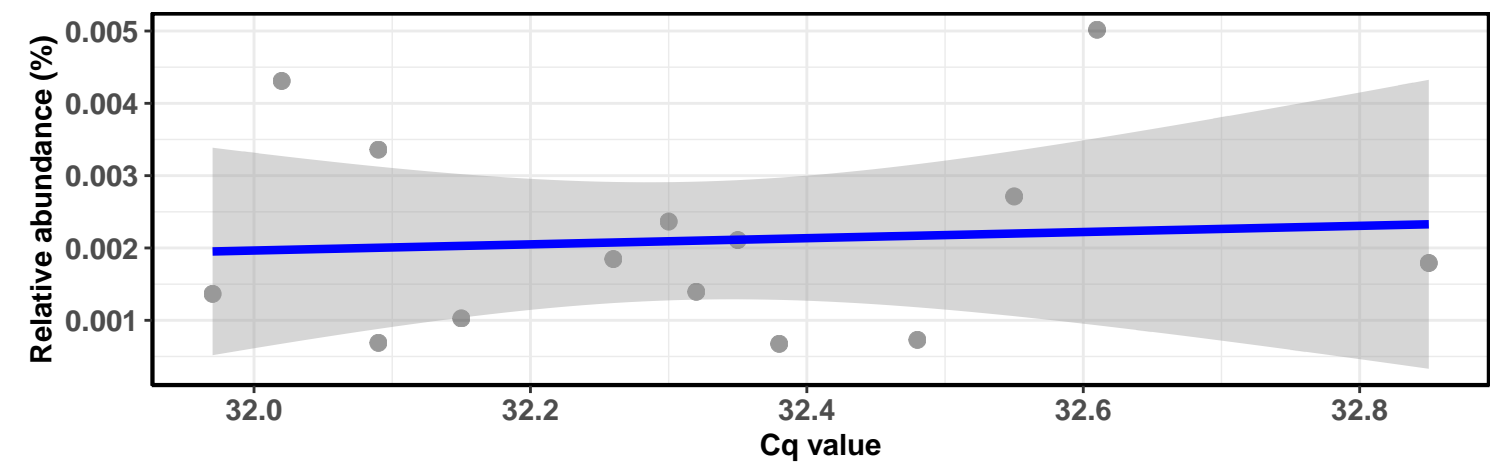
Correlation within the sample type: REF-DIC

$\log_e(S) = 3.178$ ,  $p = 0.544$ ,  $\rho_{\text{Spearman}} = 0.314$ ,  $CI_{95\%} [-0.668, 0.897]$ ,  $n = 6$

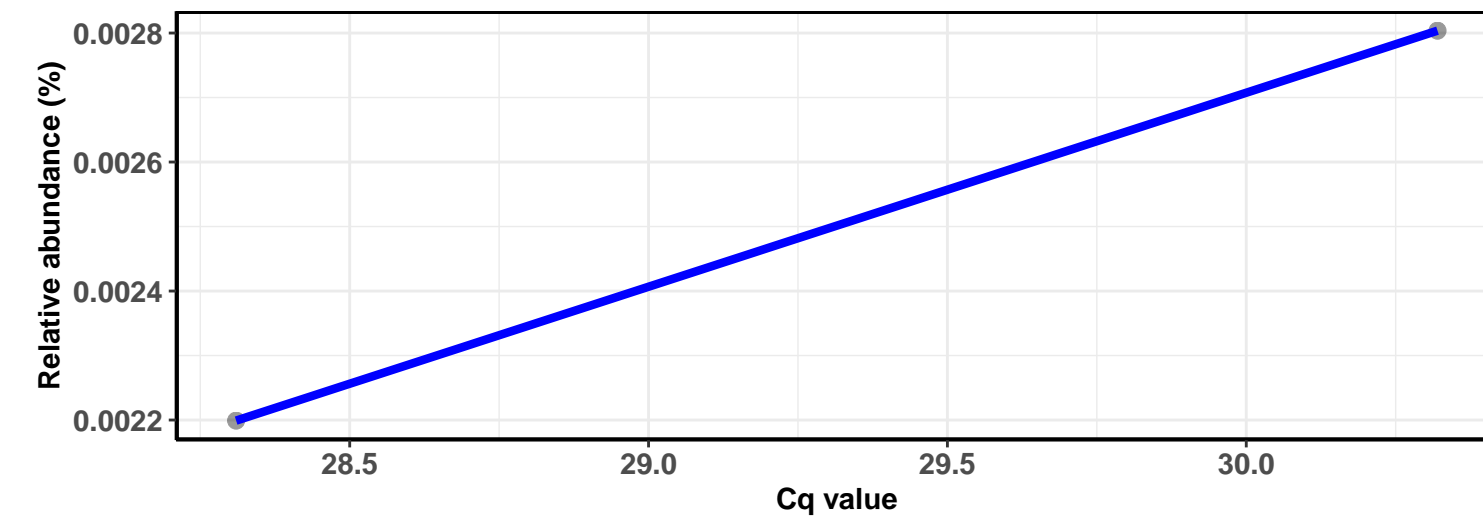


Correlation within the sample type: REF-DIM

$\log_e(S) = 6.054$ ,  $p = 0.828$ ,  $\rho_{\text{Spearman}} = 0.064$ ,  $CI_{95\%} [-0.483, 0.575]$ ,  $n = 14$

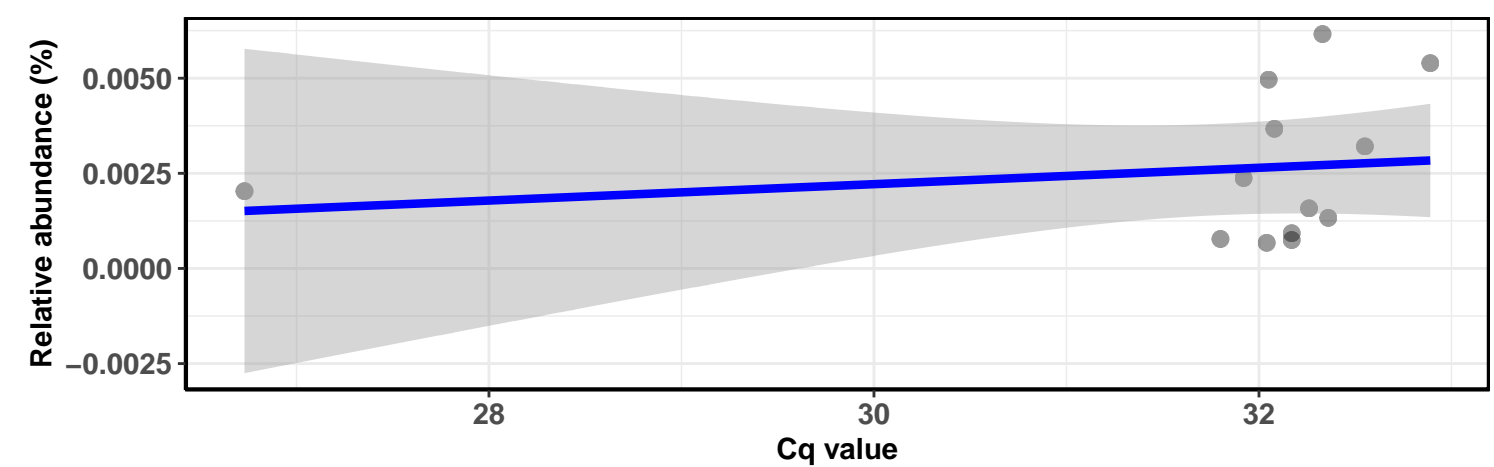


Correlation within the sample type: IM-DIC



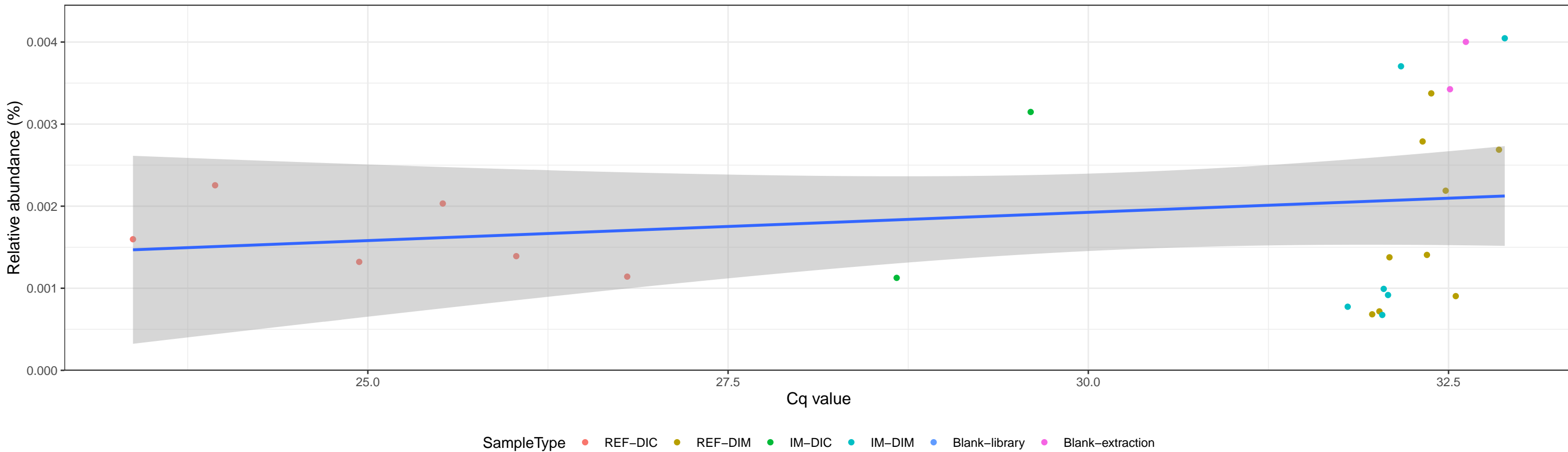
Correlation within the sample type: IM-DIM

$\log_e(S) = 5.437$ ,  $p = 0.215$ ,  $\rho_{\text{Spearman}} = 0.369$ ,  $CI_{95\%} [-0.229, 0.764]$ ,  $n = 13$



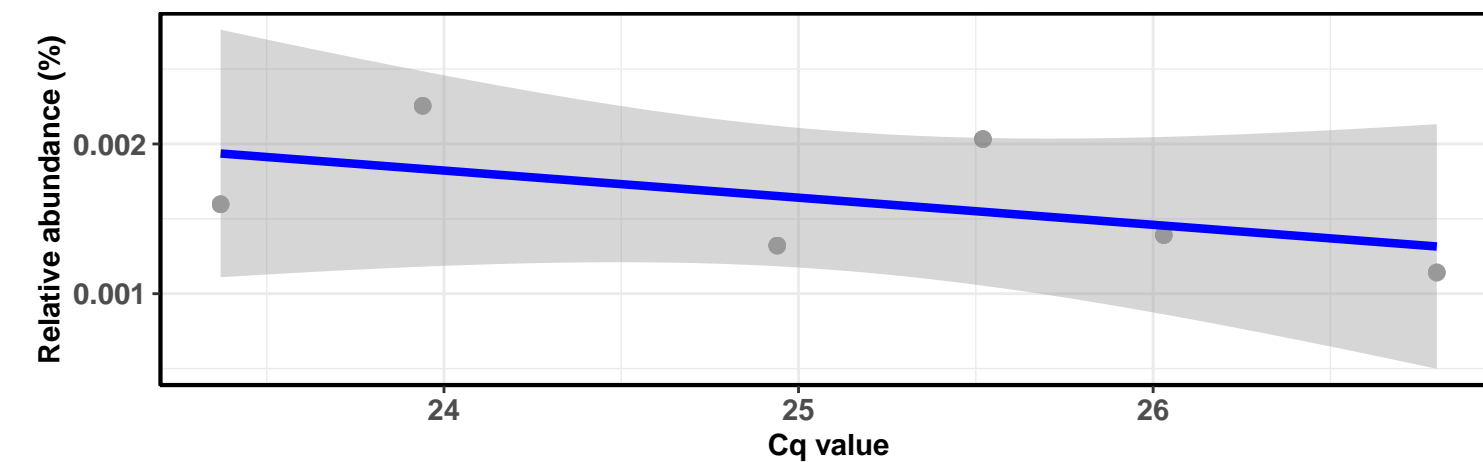
D\_0\_\_Bacteria; D\_1\_\_Proteobacteria; D\_2\_\_Gammaproteobacteria; D\_3\_\_Pseudomonadales; D\_4\_\_Pseudomonadaceae; D\_5\_\_Pseudomonas

Correlation with all samples



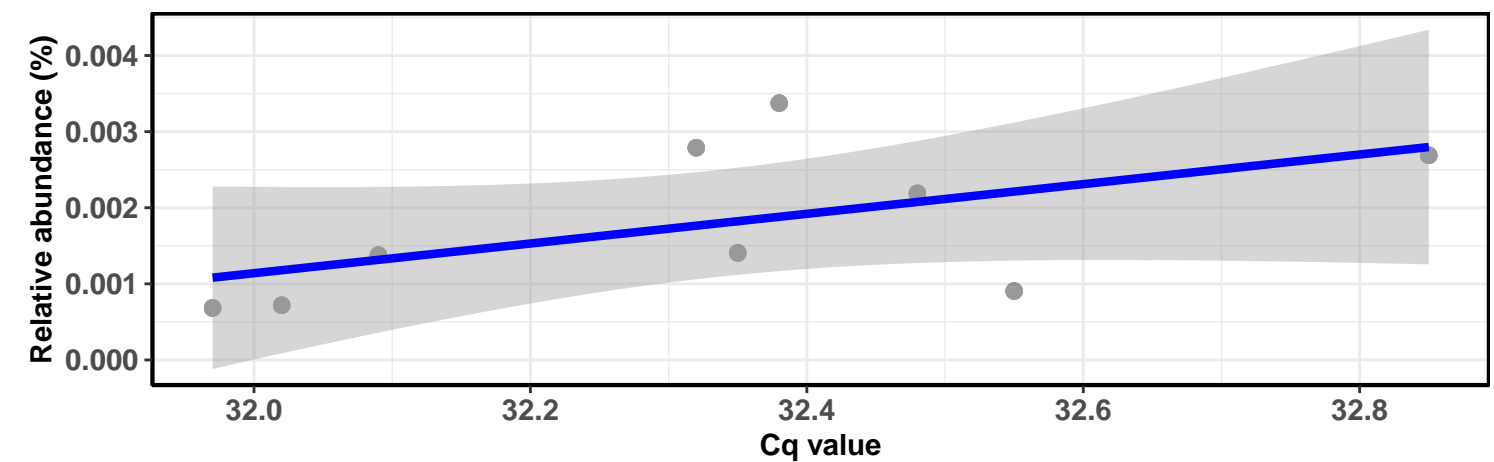
Correlation within the sample type: REF-DIC

$\log_e(S) = 4.025$ ,  $p = 0.208$ ,  $\rho_{\text{Spearman}} = -0.600$ ,  $CI_{95\%} [-0.949, 0.412]$ ,  $n = 6$

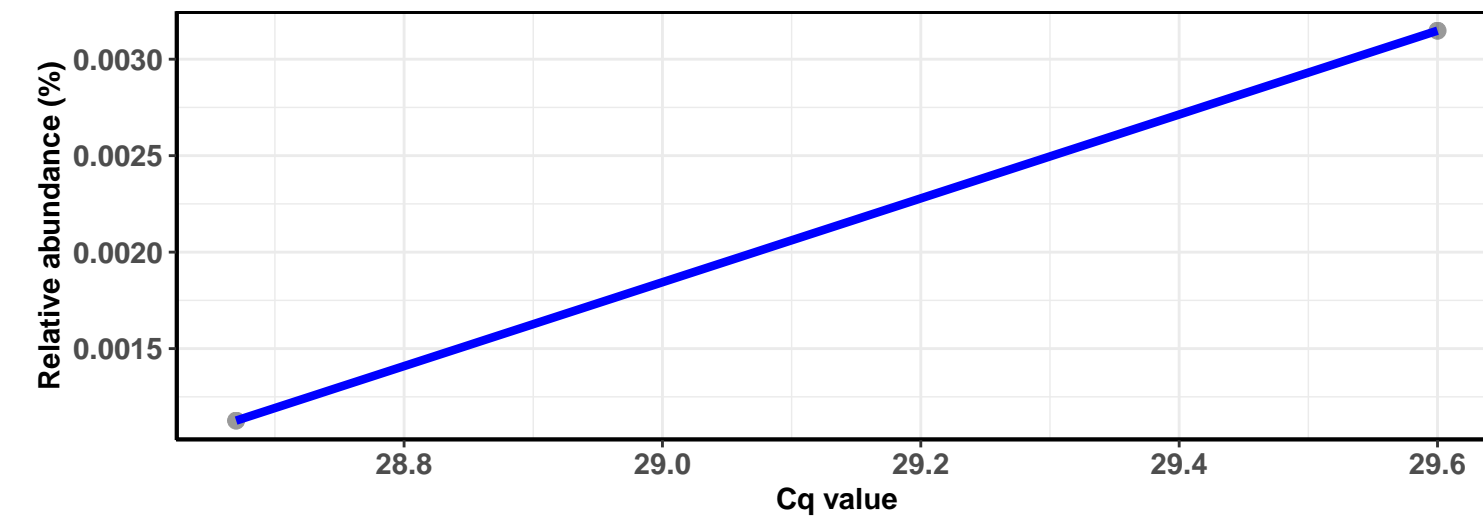


Correlation within the sample type: REF-DIM

$\log_e(S) = 4.025$ ,  $p = 0.139$ ,  $\rho_{\text{Spearman}} = 0.533$ ,  $CI_{95\%} [-0.203, 0.884]$ ,  $n = 9$

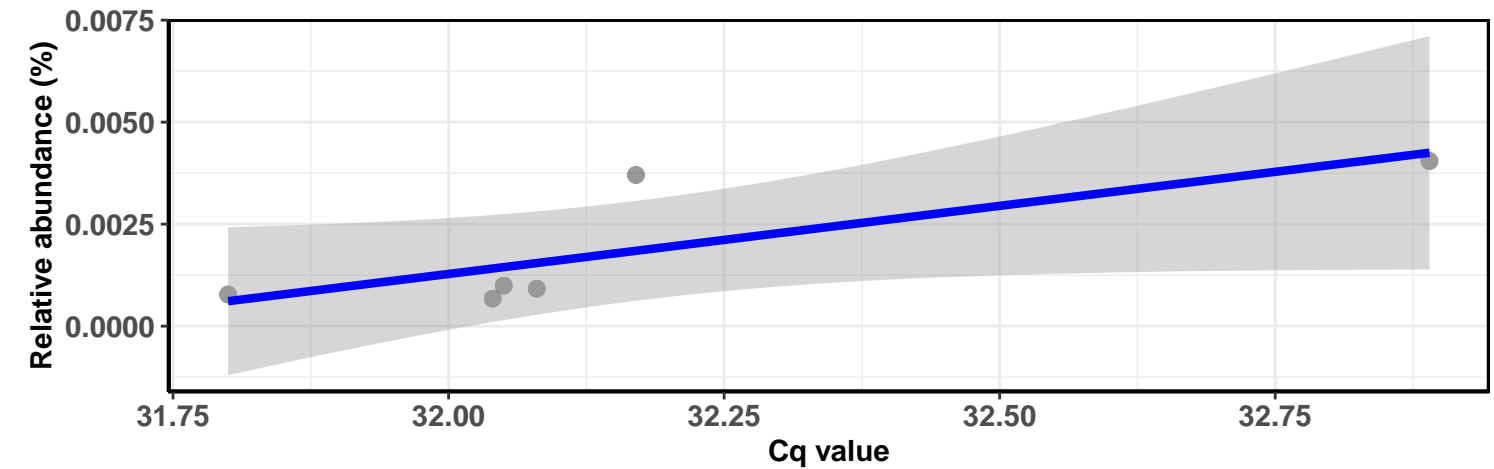


Correlation within the sample type: IM-DIC



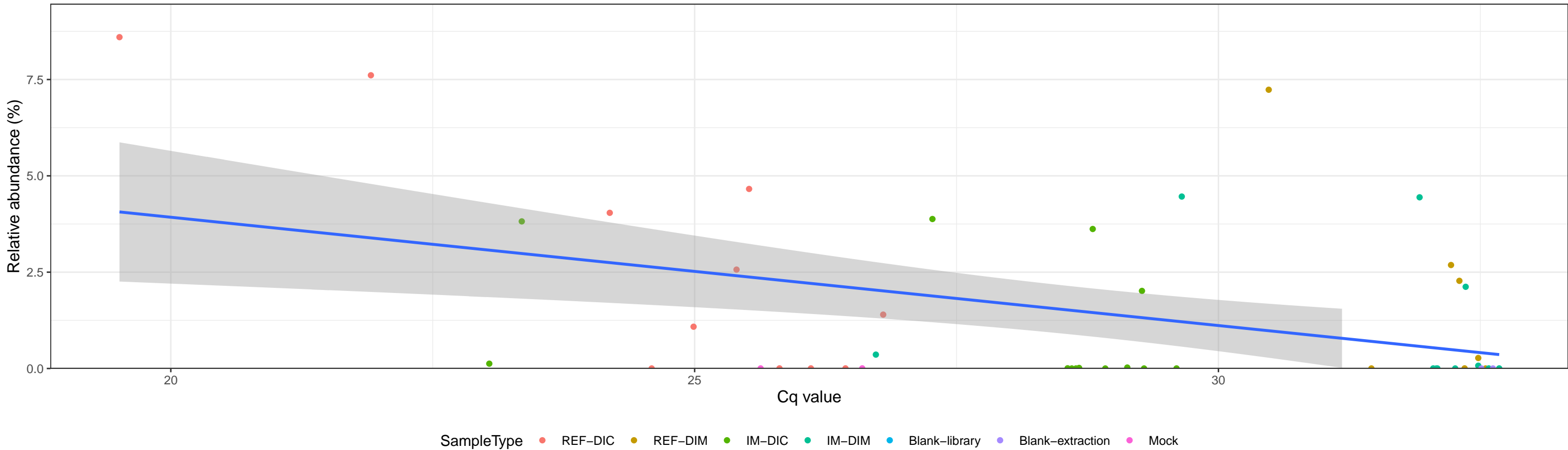
Correlation within the sample type: IM-DIM

$\log_e(S) = 1.386$ ,  $p = 0.019$ ,  $\rho_{\text{Spearman}} = 0.886$ ,  $CI_{95\%} [0.264, 0.987]$ ,  $n = 6$



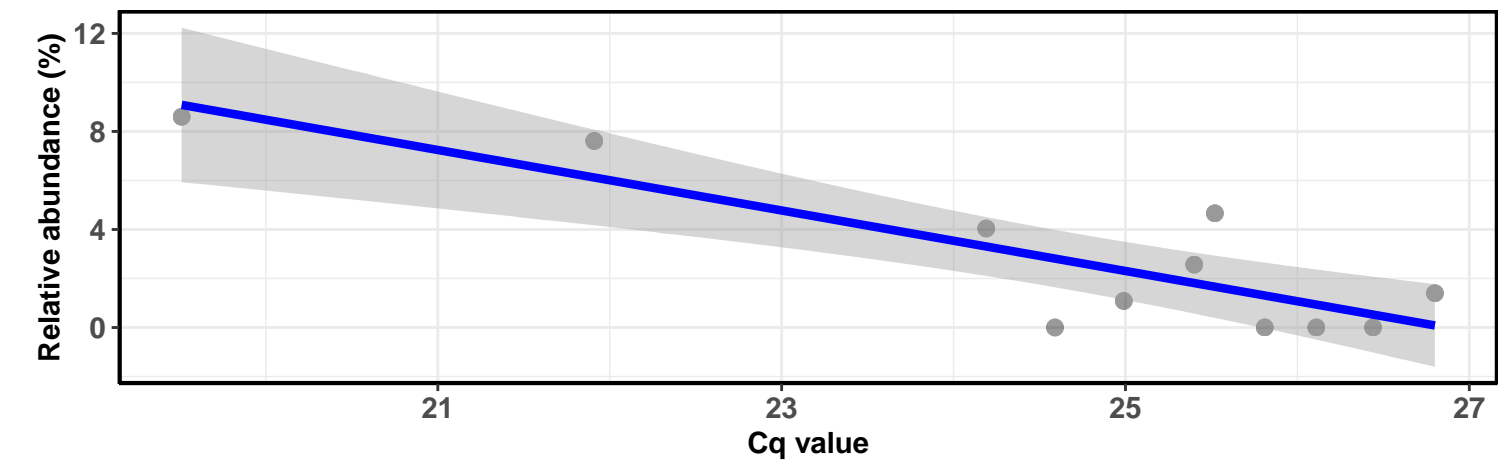
D\_0\_\_Bacteria; D\_1\_\_Proteobacteria; D\_2\_\_Gammaproteobacteria; D\_3\_\_Vibrionales; D\_4\_\_Vibrionaceae; D\_5\_\_Aliivibrio; Ambiguous\_taxa

Correlation with all samples



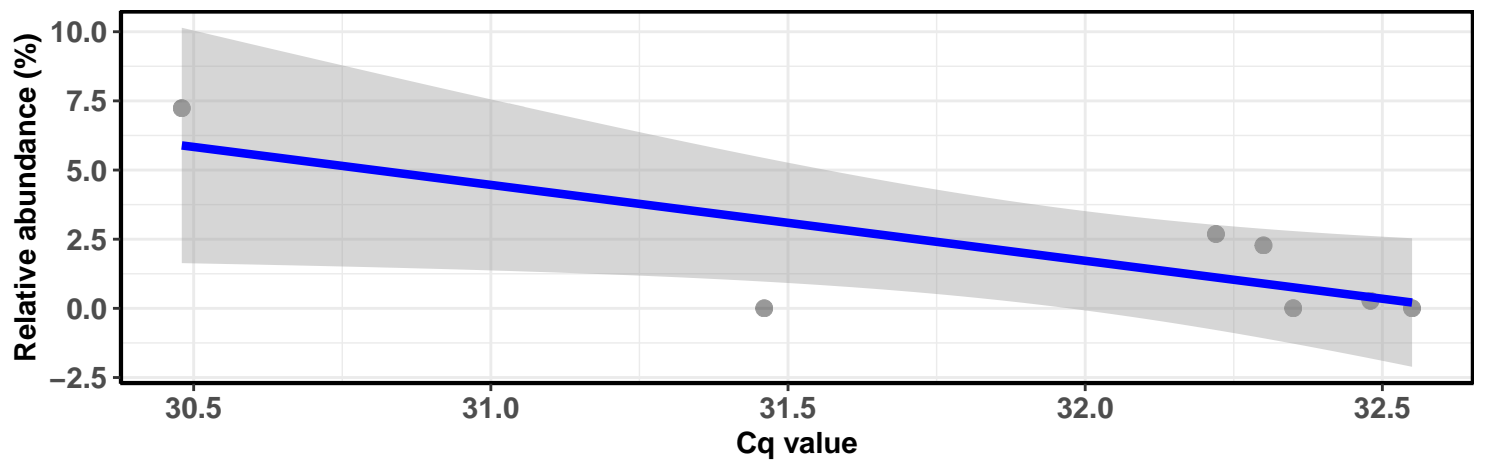
Correlation within the sample type: REF-DIC

$\log_e(S) = 5.835$ ,  $p = 0.077$ ,  $\rho_{\text{Spearman}} = -0.555$ ,  $CI_{95\%} [-0.866, 0.068]$ ,  $n = 11$



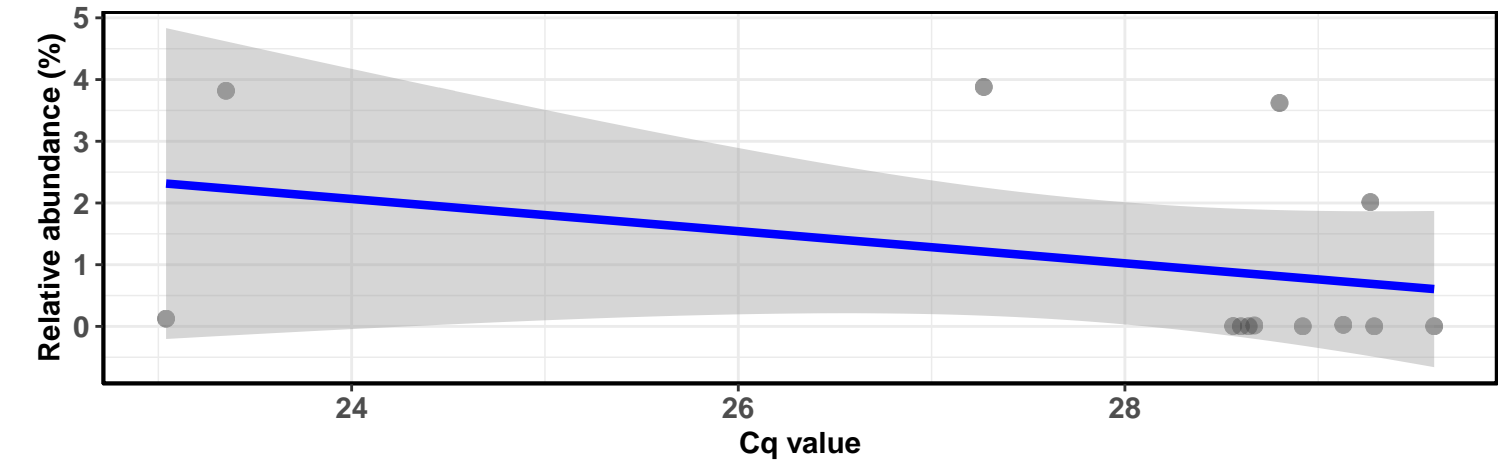
Correlation within the sample type: REF-DIM

$\log_e(S) = 4.500$ ,  $p = 0.148$ ,  $\rho_{\text{Spearman}} = -0.607$ ,  $CI_{95\%} [-0.933, 0.269]$ ,  $n = 7$



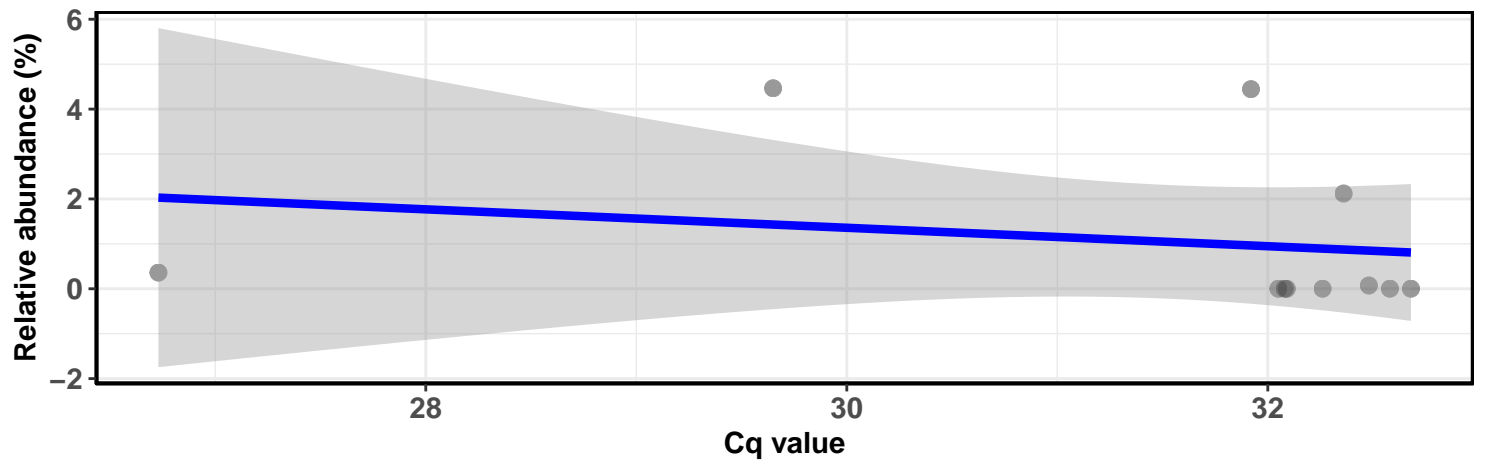
Correlation within the sample type: IM-DIC

$\log_e(S) = 6.223$ ,  $p = 0.194$ ,  $\rho_{\text{Spearman}} = -0.385$ ,  $CI_{95\%} [-0.772, 0.211]$ ,  $n = 13$



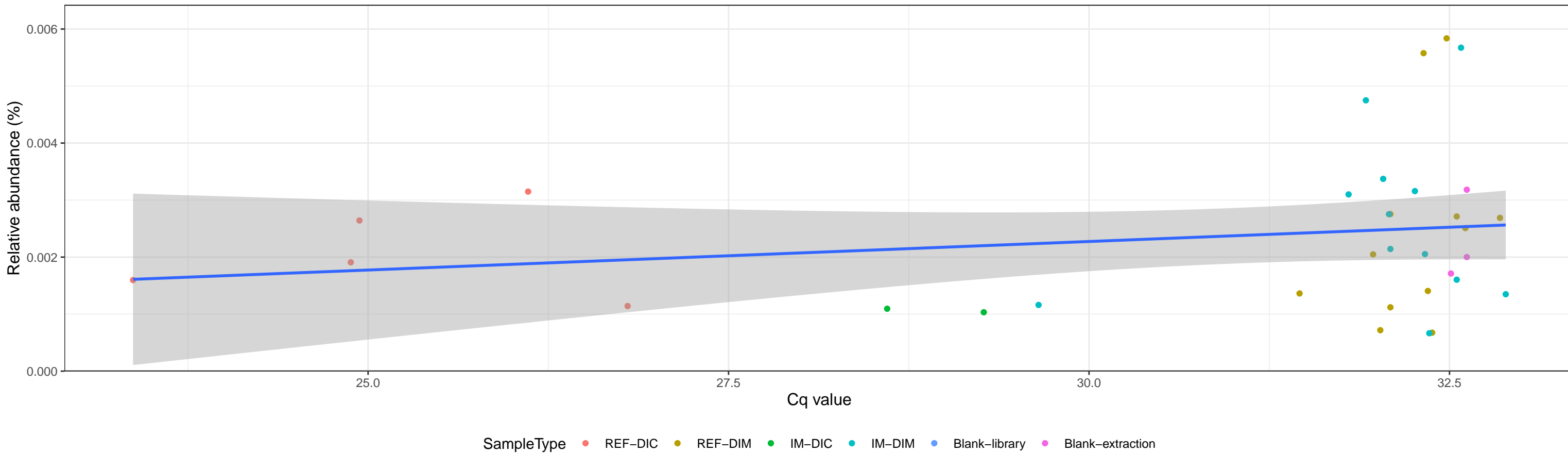
Correlation within the sample type: IM-DIM

$\log_e(S) = 5.642$ ,  $p = 0.401$ ,  $\rho_{\text{Spearman}} = -0.282$ ,  $CI_{95\%} [-0.754, 0.383]$ ,  $n = 11$

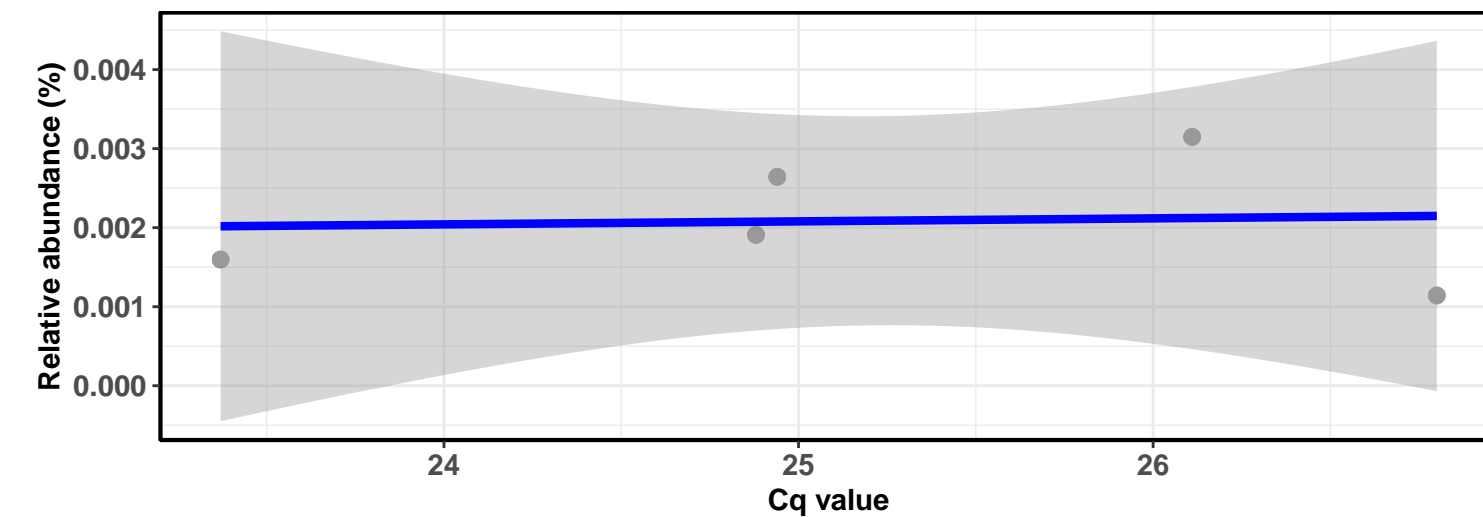


D\_0\_\_Bacteria; D\_1\_\_Proteobacteria; D\_2\_\_Gammaproteobacteria; D\_3\_\_Pseudomonadales; D\_4\_\_Pseudomonadaceae; D\_5\_\_Pseudomonas

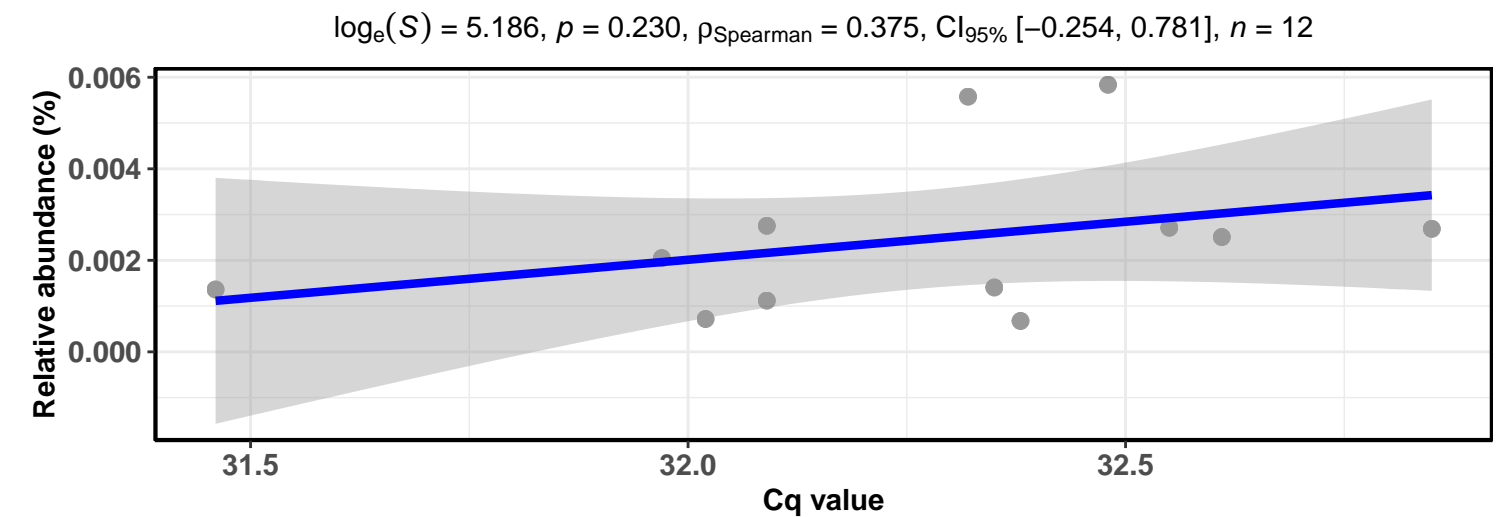
Correlation with all samples



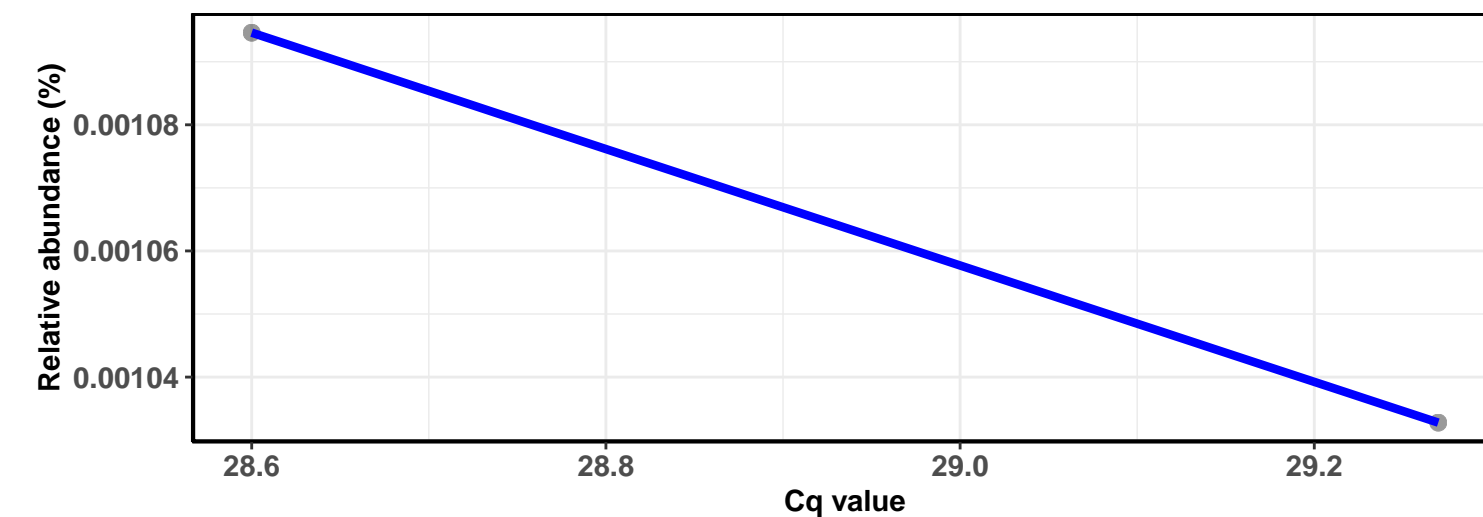
Correlation within the sample type: REF-DIC



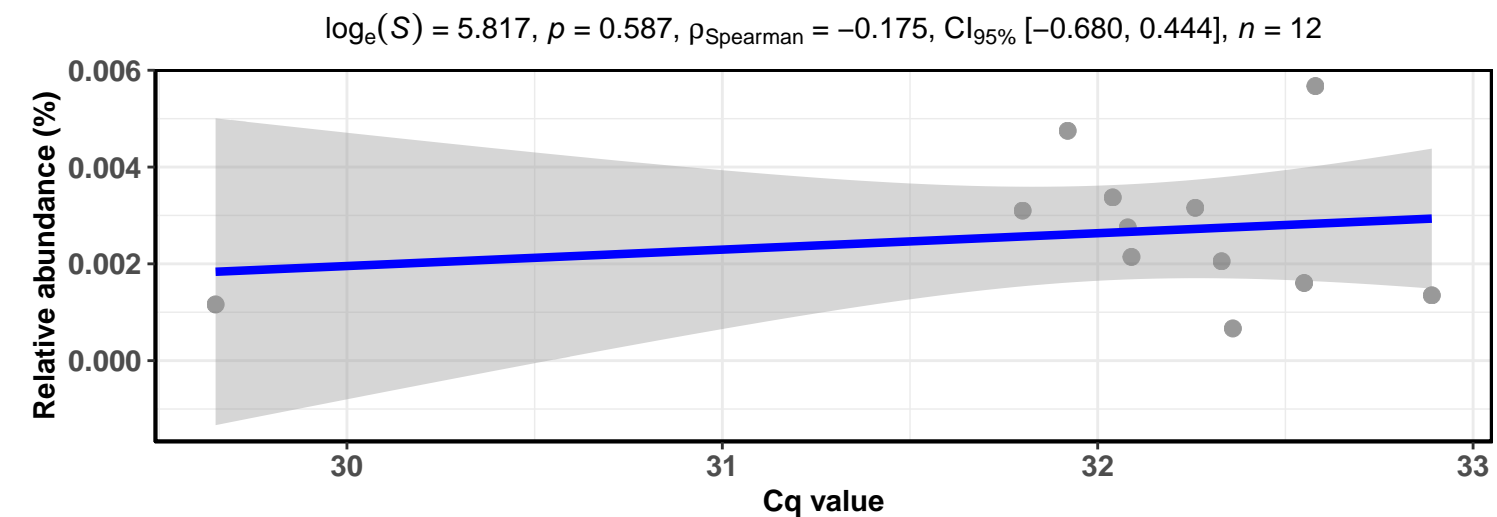
Correlation within the sample type: REF-DIM



Correlation within the sample type: IM-DIC

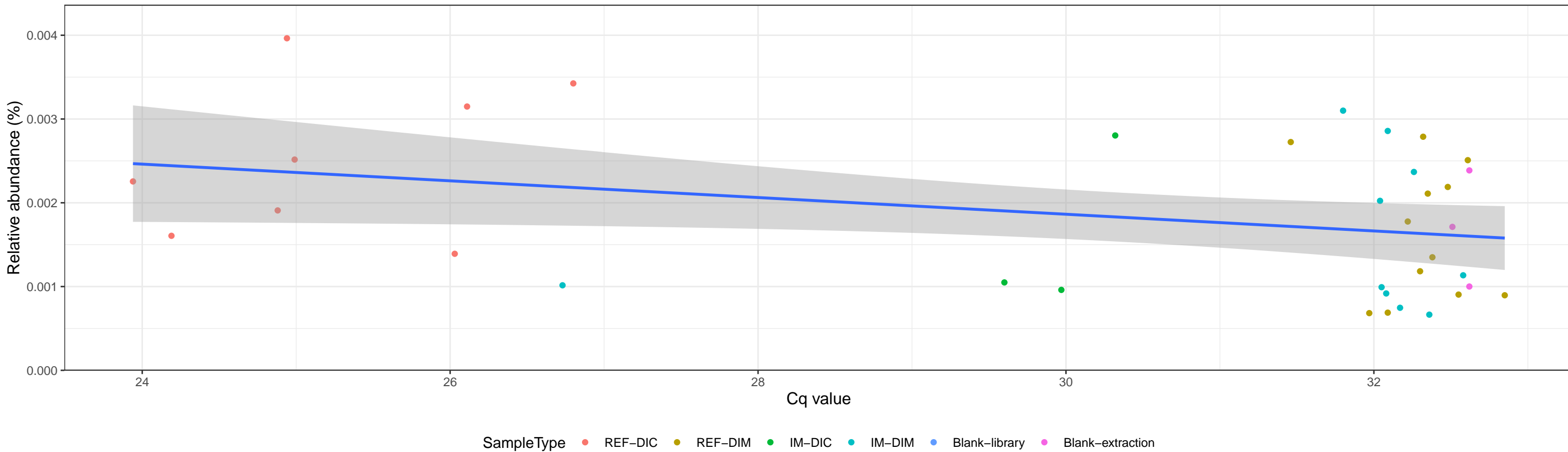


Correlation within the sample type: IM-DIM



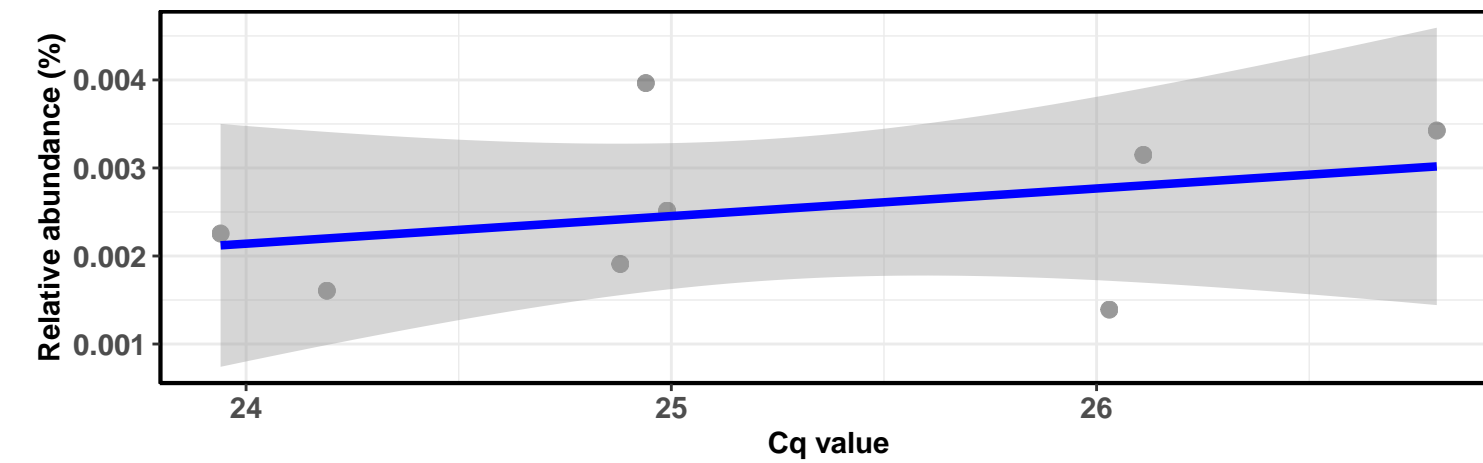
D\_0\_\_Bacteria; D\_1\_\_Proteobacteria; D\_2\_\_Gammaproteobacteria; D\_3\_\_Pseudomonadales; D\_4\_\_Pseudomonadaceae; D\_5\_\_Pseudomonas

Correlation with all samples



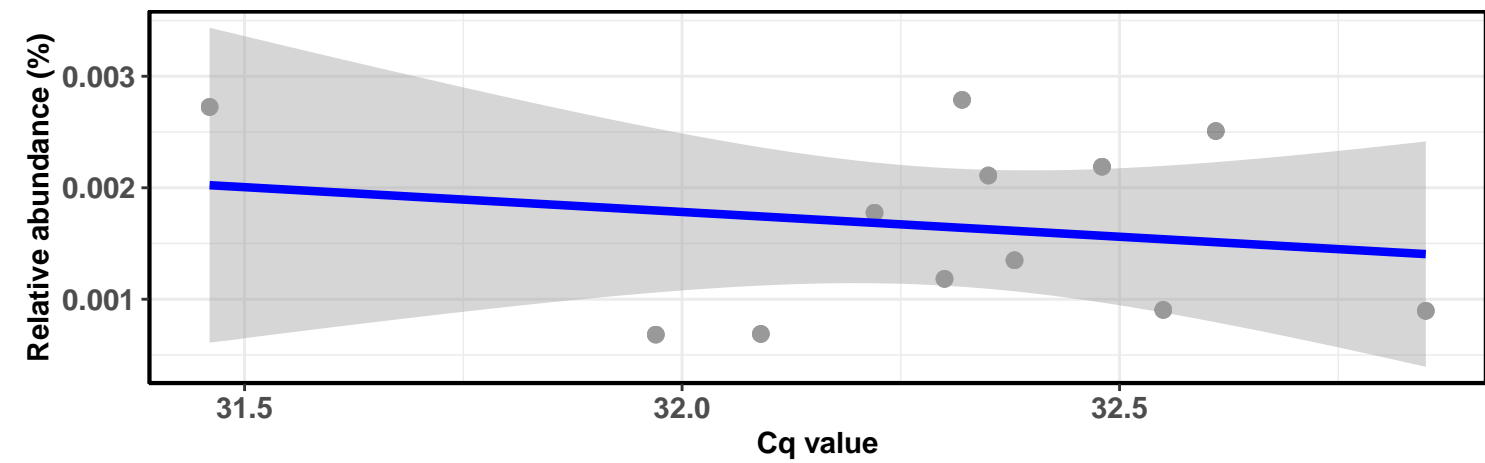
Correlation within the sample type: REF-DIC

$\log_e(S) = 3.951$ ,  $p = 0.352$ ,  $\rho_{\text{Spearman}} = 0.381$ ,  $CI_{95\%} [-0.443, 0.856]$ ,  $n = 8$

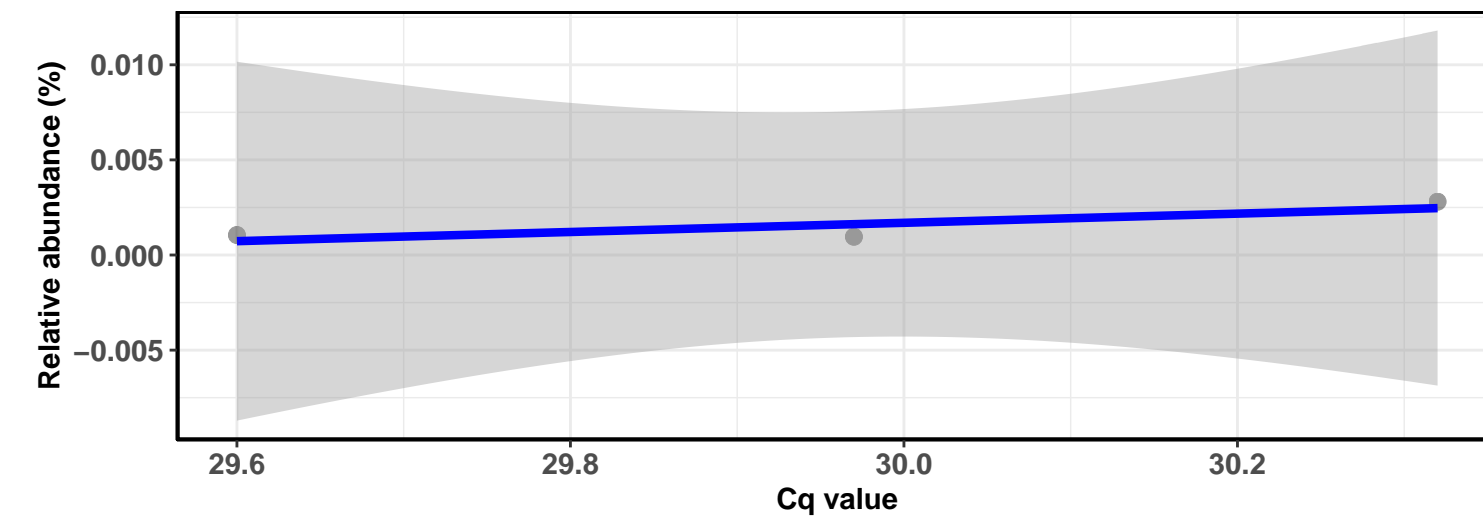


Correlation within the sample type: REF-DIM

$\log_e(S) = 5.598$ ,  $p = 0.863$ ,  $\rho_{\text{Spearman}} = 0.056$ ,  $CI_{95\%} [-0.535, 0.610]$ ,  $n = 12$

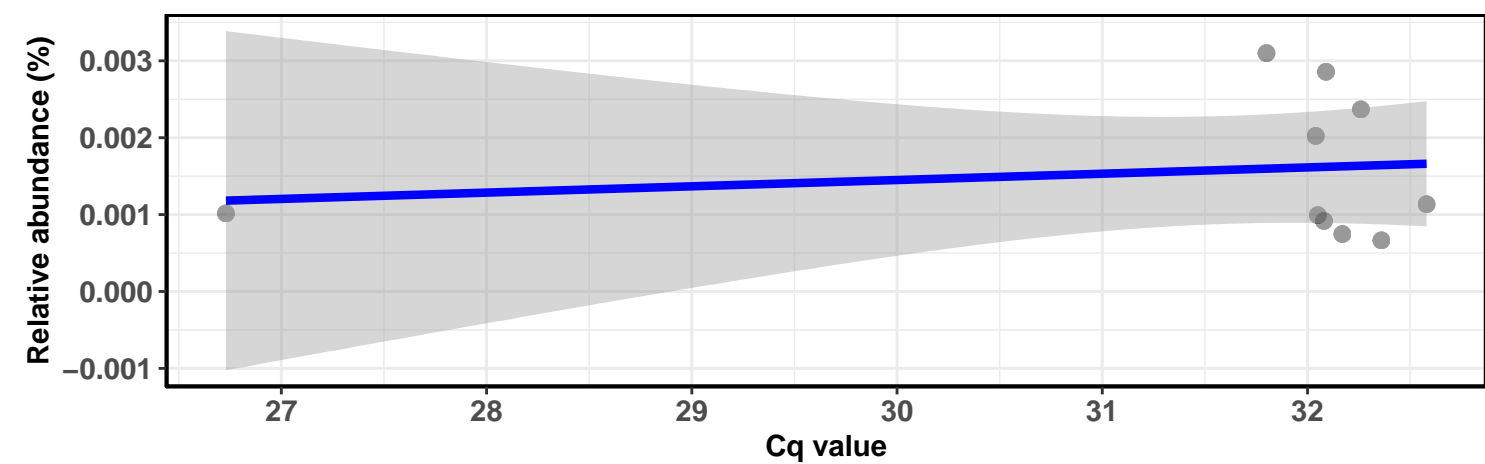


Correlation within the sample type: IM-DIC



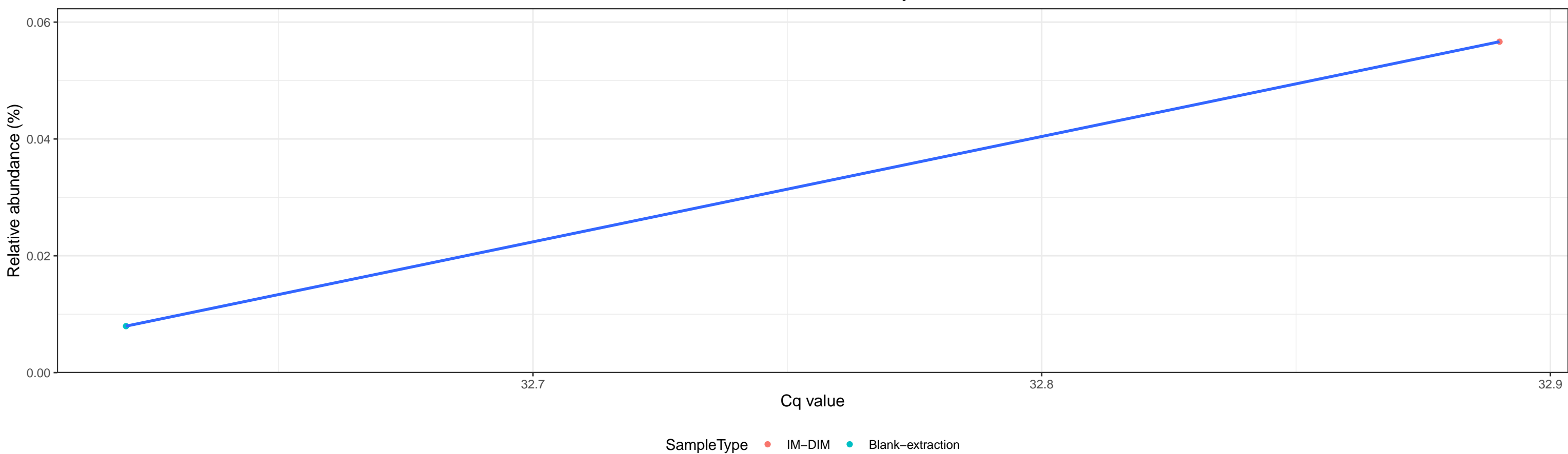
Correlation within the sample type: IM-DIM

$\log_e(S) = 5.366$ ,  $p = 0.405$ ,  $\rho_{\text{Spearman}} = -0.297$ ,  $CI_{95\%} [-0.781, 0.409]$ ,  $n = 10$

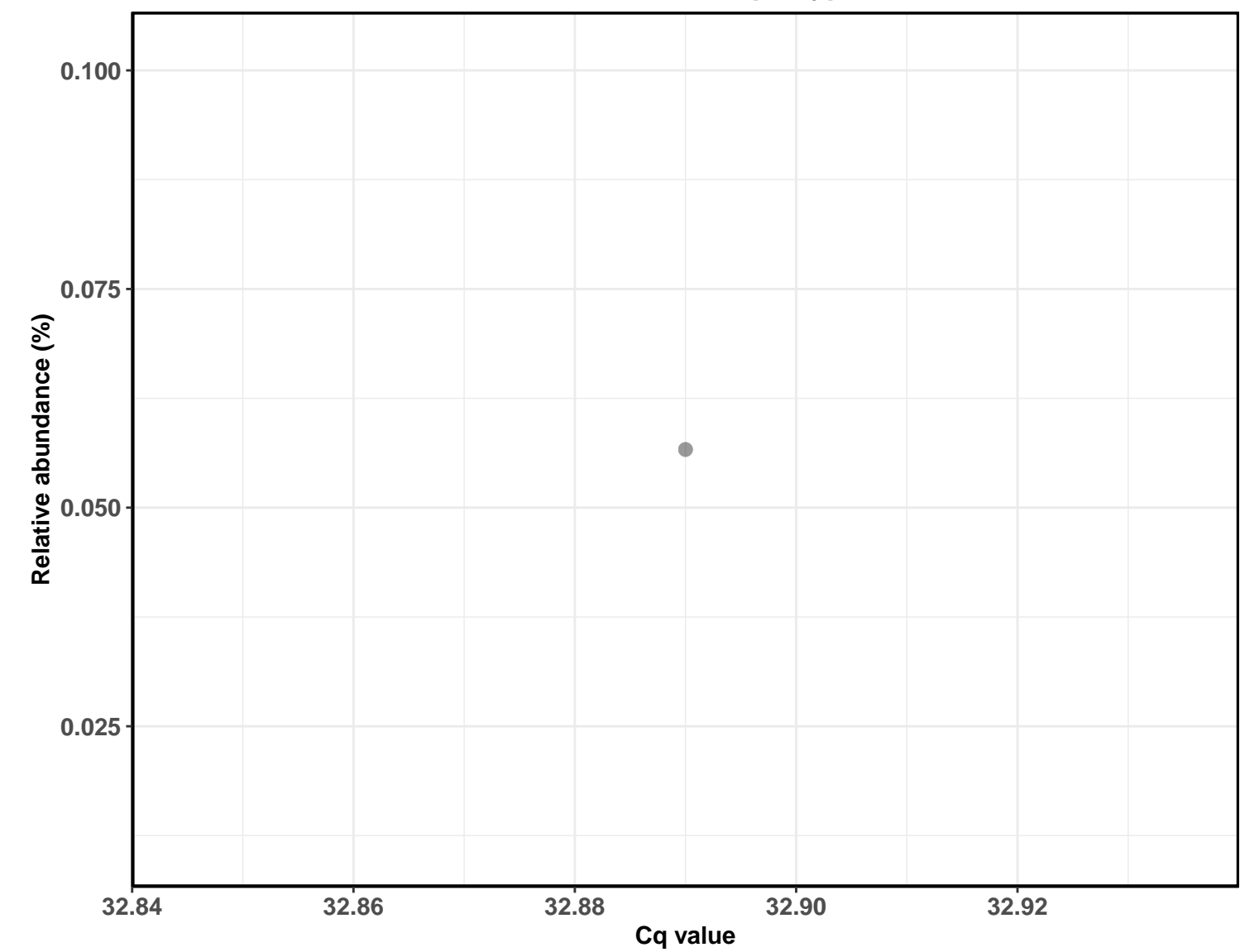


D\_0\_\_Bacteria; D\_1\_\_Bacteroidetes; D\_2\_\_Bacteroidia; D\_3\_\_Cytophagales; D\_4\_\_Hymenobacteraceae; D\_5\_\_Hymenobacter; D\_6\_\_uncultured bacterium

Correlation with all samples



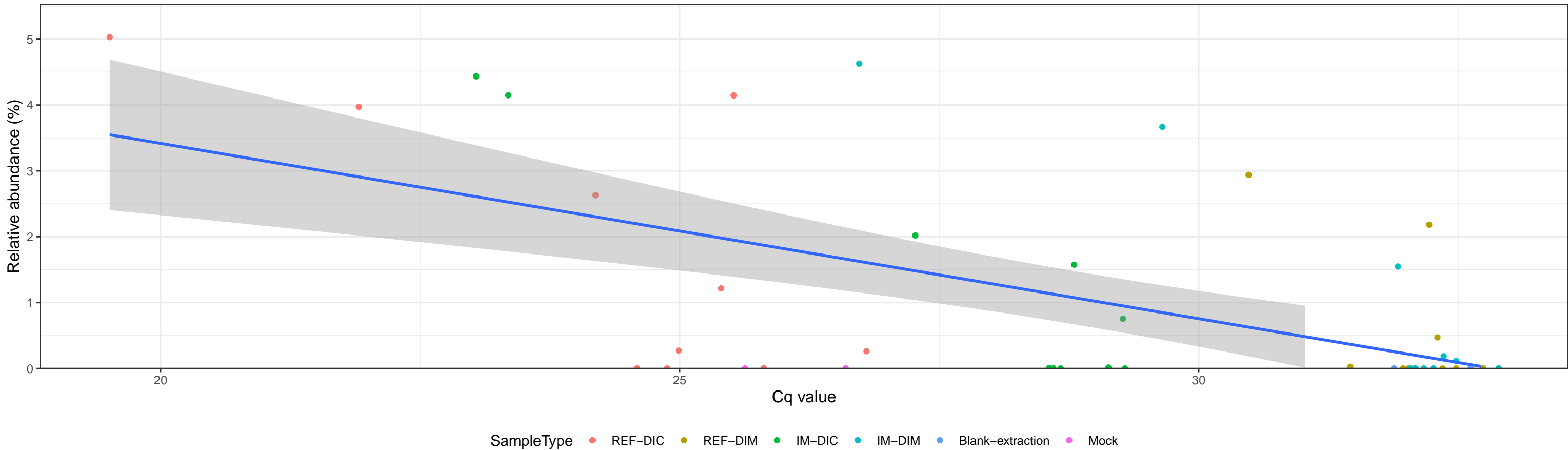
Correlation within the sample type: IM-DIM





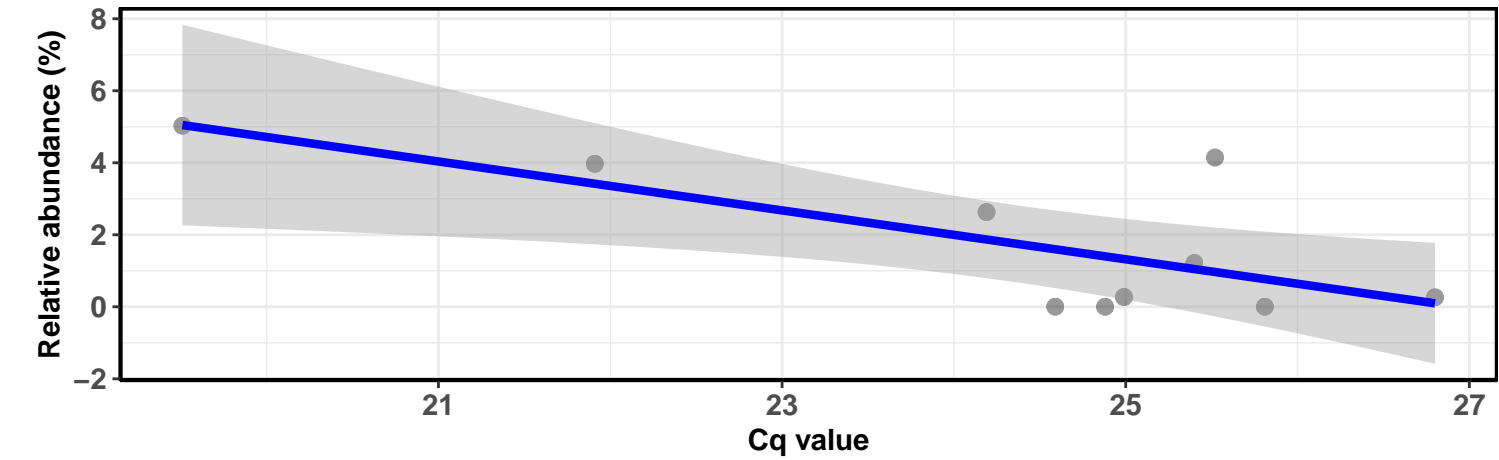
D\_0\_\_Bacteria; D\_1\_\_Proteobacteria; D\_2\_\_Gammaproteobacteria; D\_3\_\_Vibrionales; D\_4\_\_Vibrionaceae; D\_5\_\_Aliivibrio; D\_6\_\_uncultured bacterium

Correlation with all samples



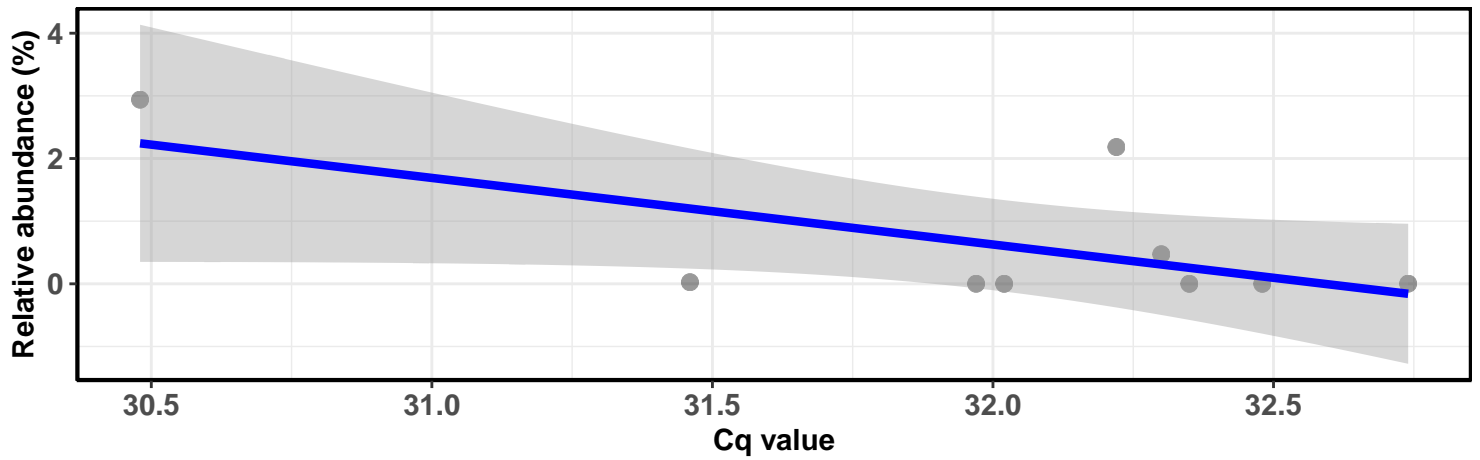
Correlation within the sample type: REF-DIC

$\log_e(S) = 5.429$ ,  $p = 0.276$ ,  $\rho_{\text{Spearman}} = -0.382$ ,  $CI_{95\%} [-0.815, 0.326]$ ,  $n = 10$



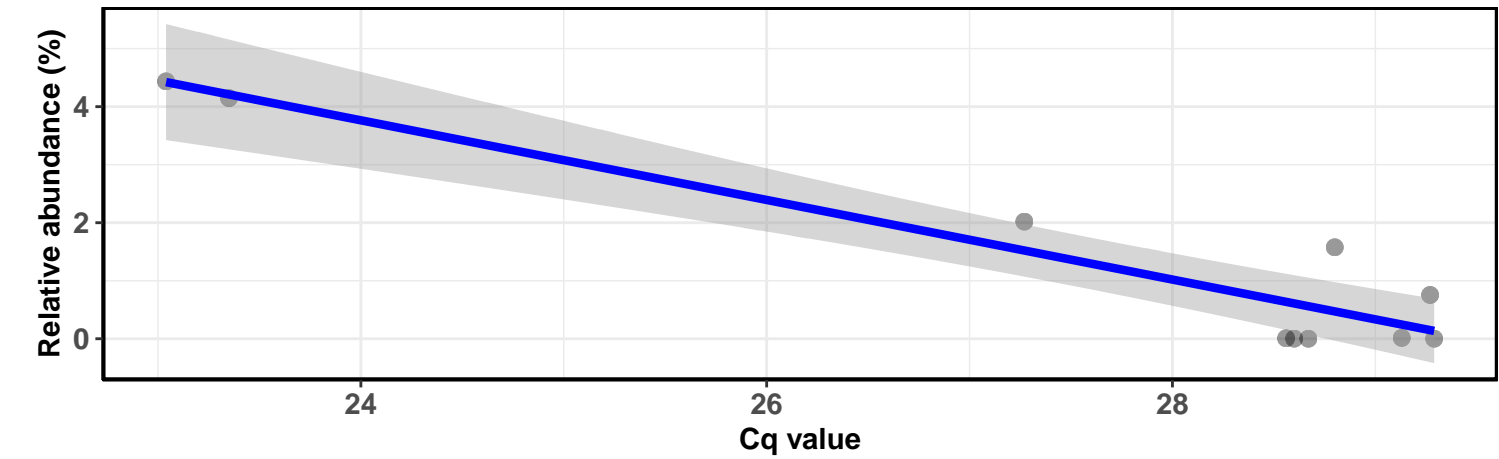
Correlation within the sample type: REF-DIM

$\log_e(S) = 5.147$ ,  $p = 0.244$ ,  $\rho_{\text{Spearman}} = -0.433$ ,  $CI_{95\%} [-0.852, 0.324]$ ,  $n = 9$



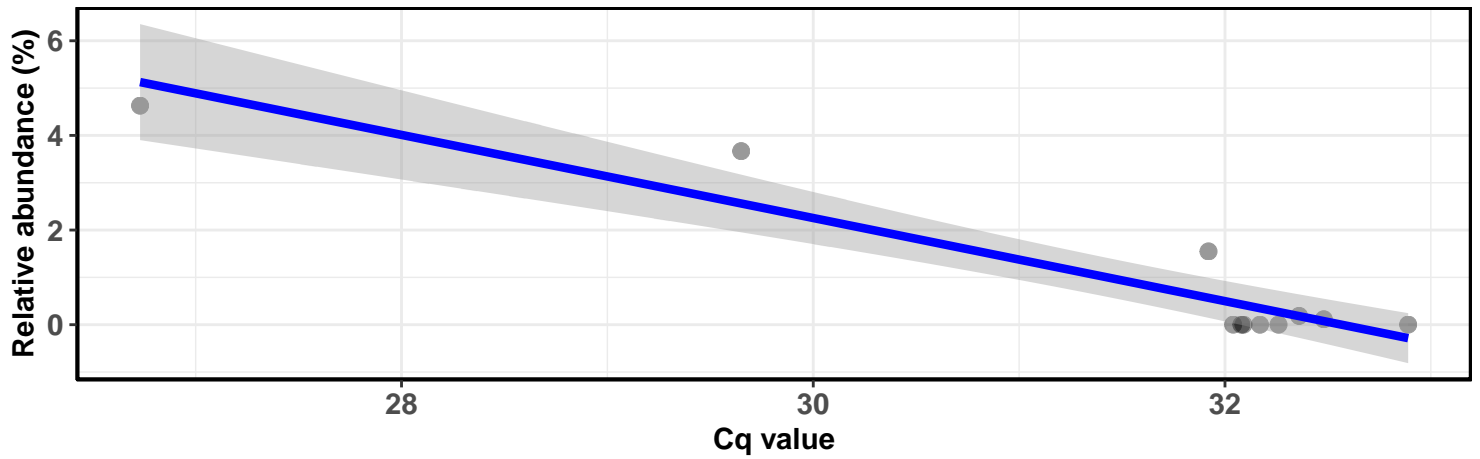
Correlation within the sample type: IM-DIC

$\log_e(S) = 5.583$ ,  $p = 0.060$ ,  $\rho_{\text{Spearman}} = -0.612$ ,  $CI_{95\%} [-0.896, 0.028]$ ,  $n = 10$



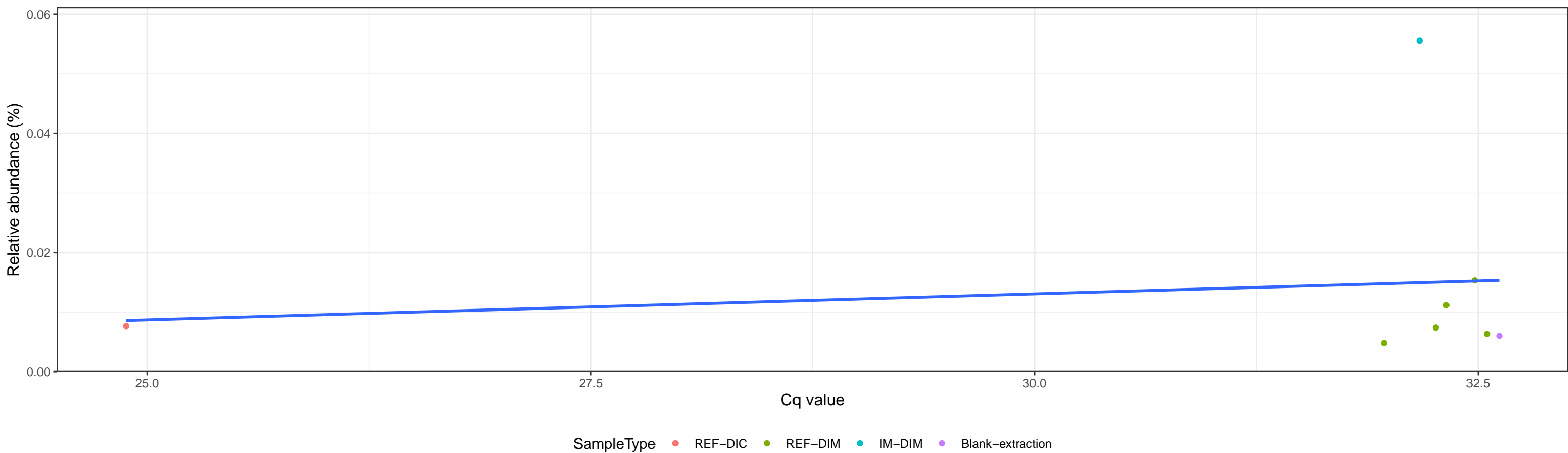
Correlation within the sample type: IM-DIM

$\log_e(S) = 5.710$ ,  $p = 0.259$ ,  $\rho_{\text{Spearman}} = -0.373$ ,  $CI_{95\%} [-0.795, 0.293]$ ,  $n = 11$

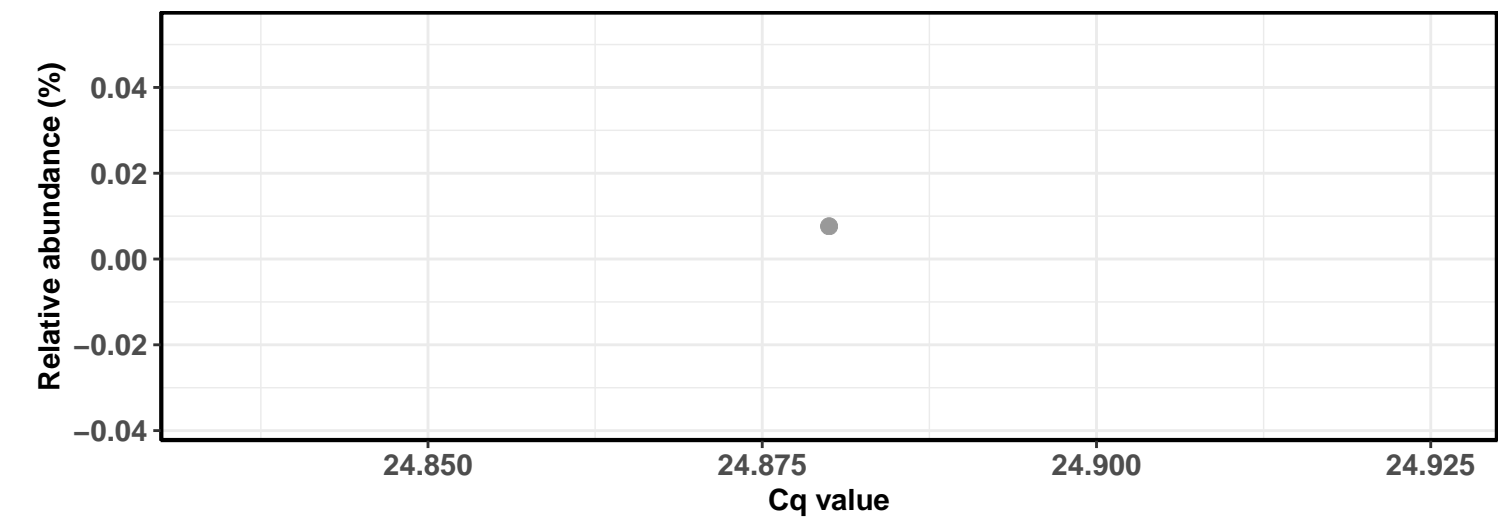


D\_0\_\_Bacteria; D\_1\_\_Proteobacteria; D\_2\_\_Alphaproteobacteria; D\_3\_\_Caulobacterales; D\_4\_\_Caulobacteraceae; D\_5\_\_Brevundimonas

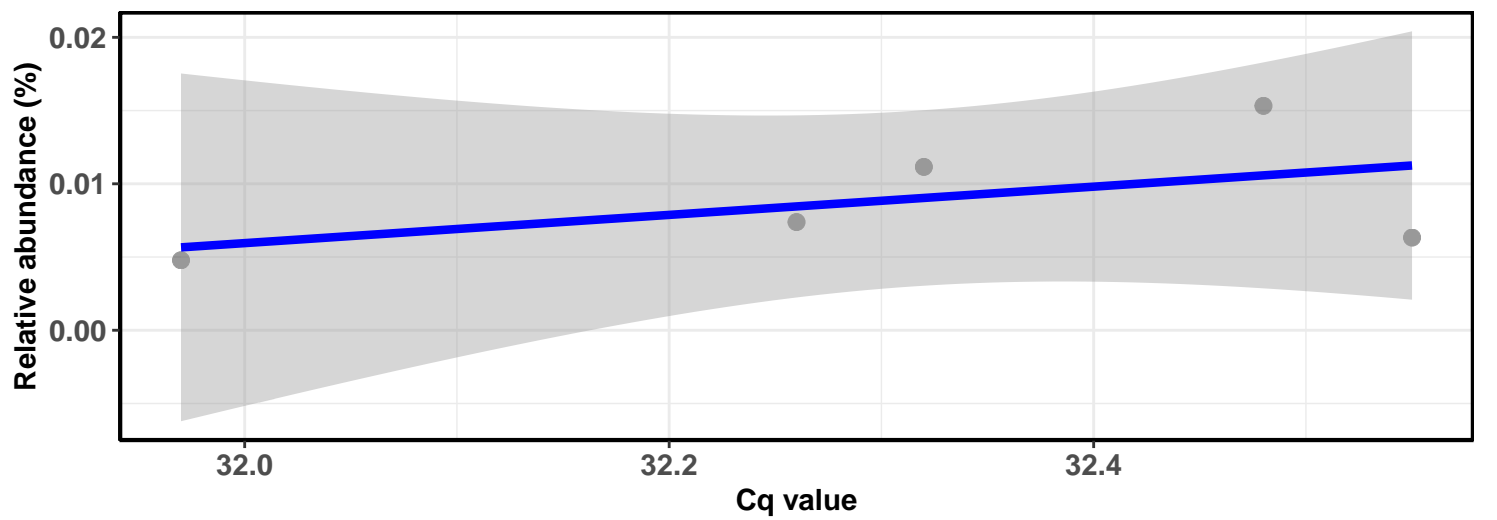
Correlation with all samples



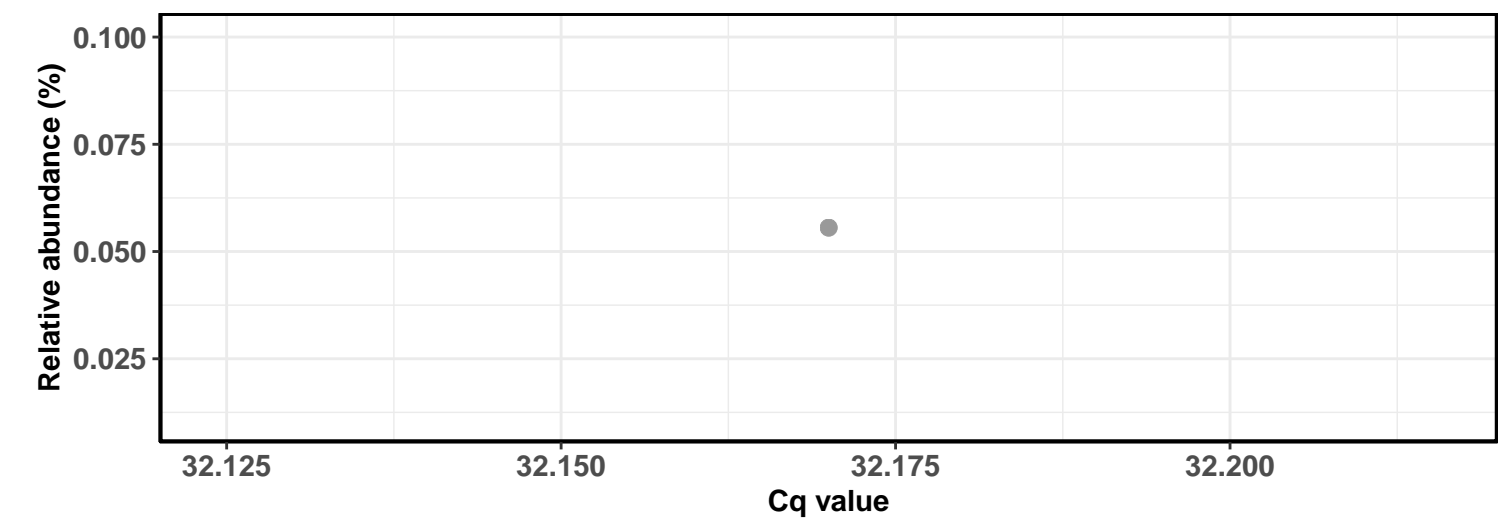
Correlation within the sample type: REF-DIC



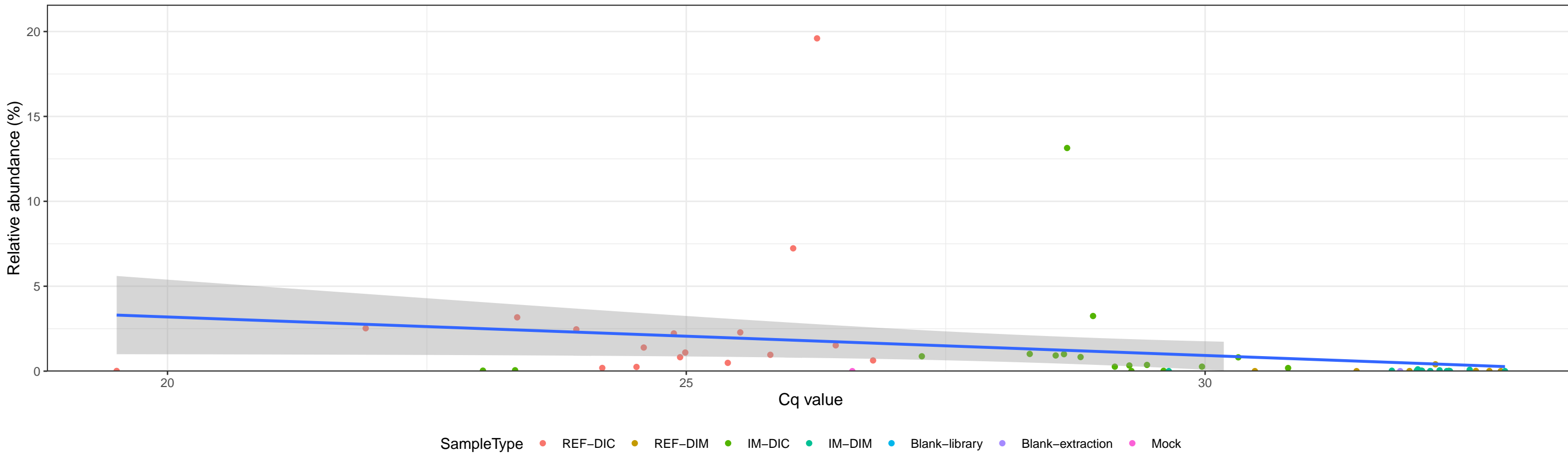
Correlation within the sample type: REF-DIM



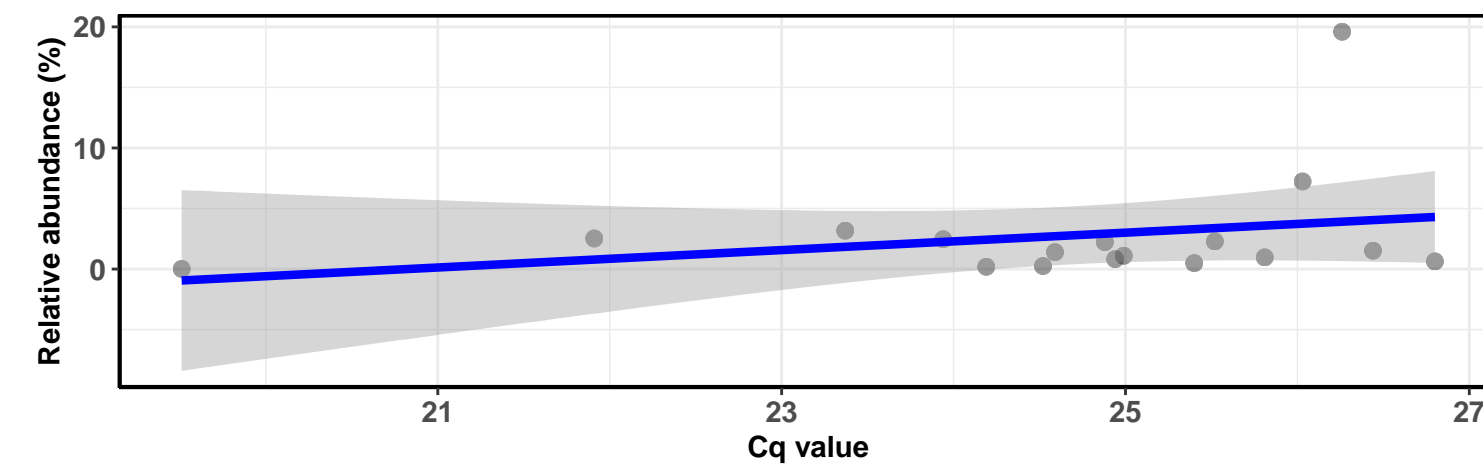
Correlation within the sample type: IM-DIM



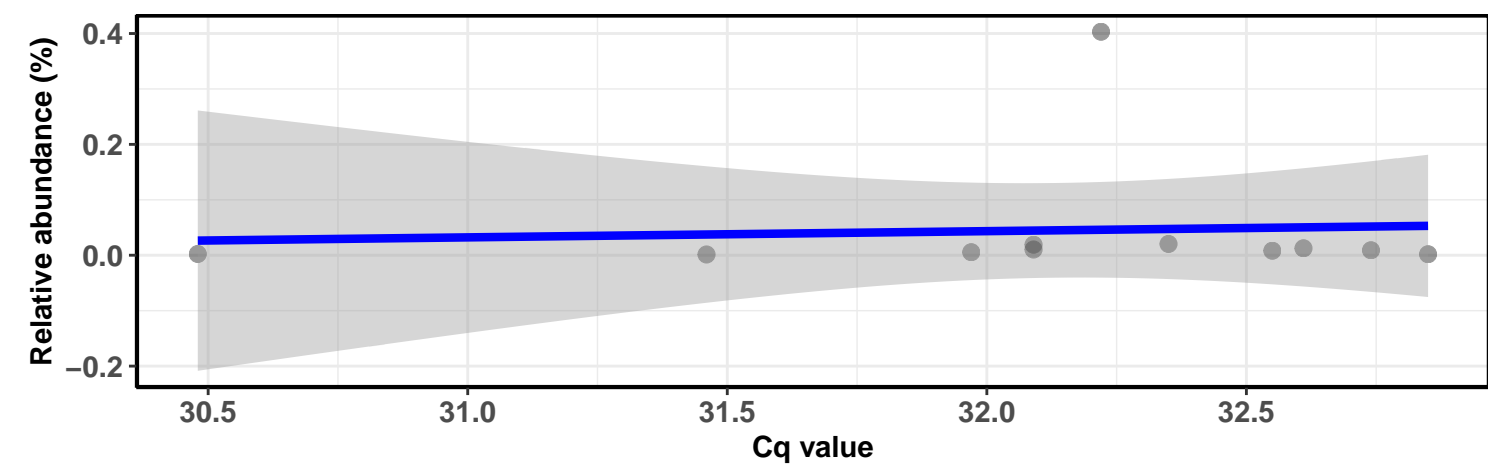
## Correlation with all samples



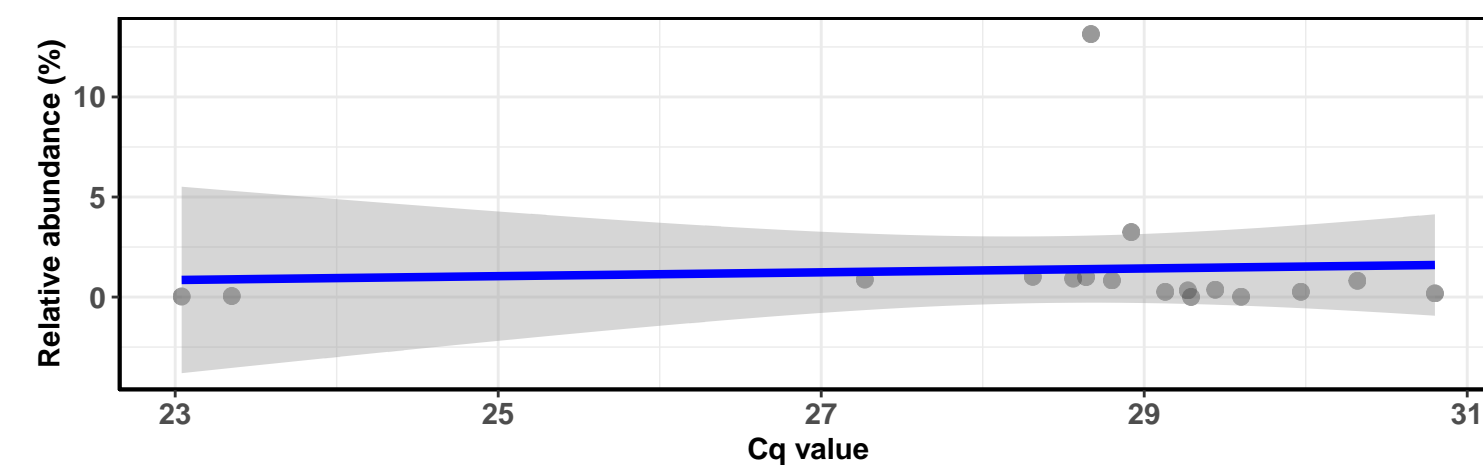
## Correlation within the sample type: REF-DIC

 $\log_e(S) = 6.531$ ,  $p = 0.541$ ,  $\rho_{\text{Spearman}} = 0.159$ ,  $CI_{95\%} [-0.348, 0.594]$ ,  $n = 17$ 

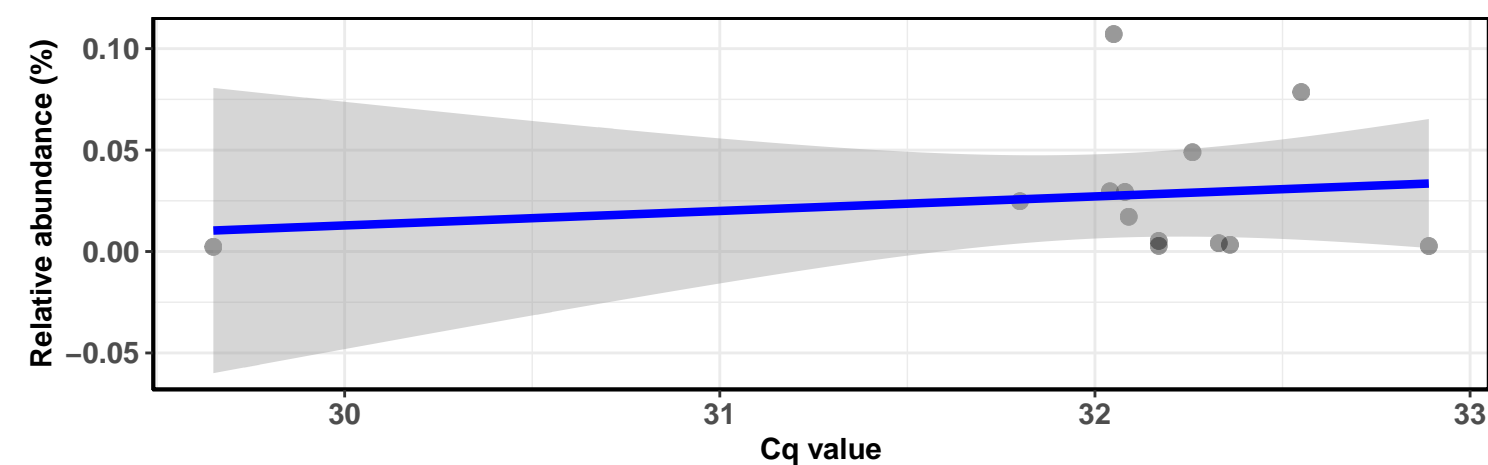
## Correlation within the sample type: REF-DIM

 $\log_e(S) = 5.158$ ,  $p = 0.536$ ,  $\rho_{\text{Spearman}} = 0.210$ ,  $CI_{95\%} [-0.446, 0.719]$ ,  $n = 11$ 

## Correlation within the sample type: IM-DIC

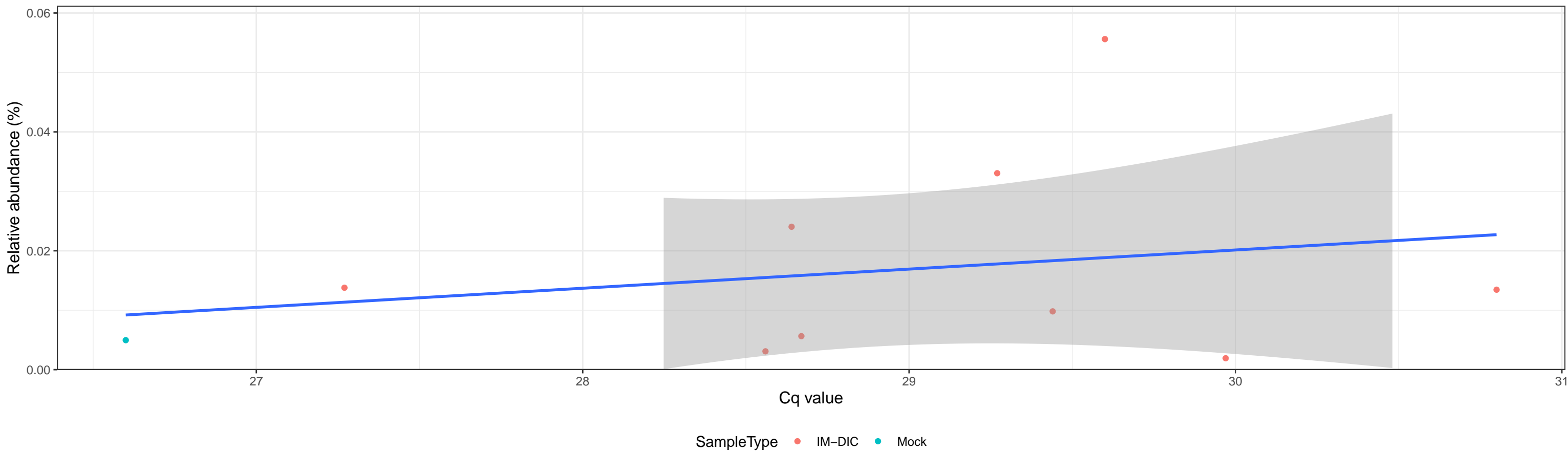
 $\log_e(S) = 6.953$ ,  $p = 0.273$ ,  $\rho_{\text{Spearman}} = -0.282$ ,  $CI_{95\%} [-0.672, 0.230]$ ,  $n = 17$ 

## Correlation within the sample type: IM-DIM

 $\log_e(S) = 6.004$ ,  $p = 0.714$ ,  $\rho_{\text{Spearman}} = -0.113$ ,  $CI_{95\%} [-0.625, 0.467]$ ,  $n = 13$ 

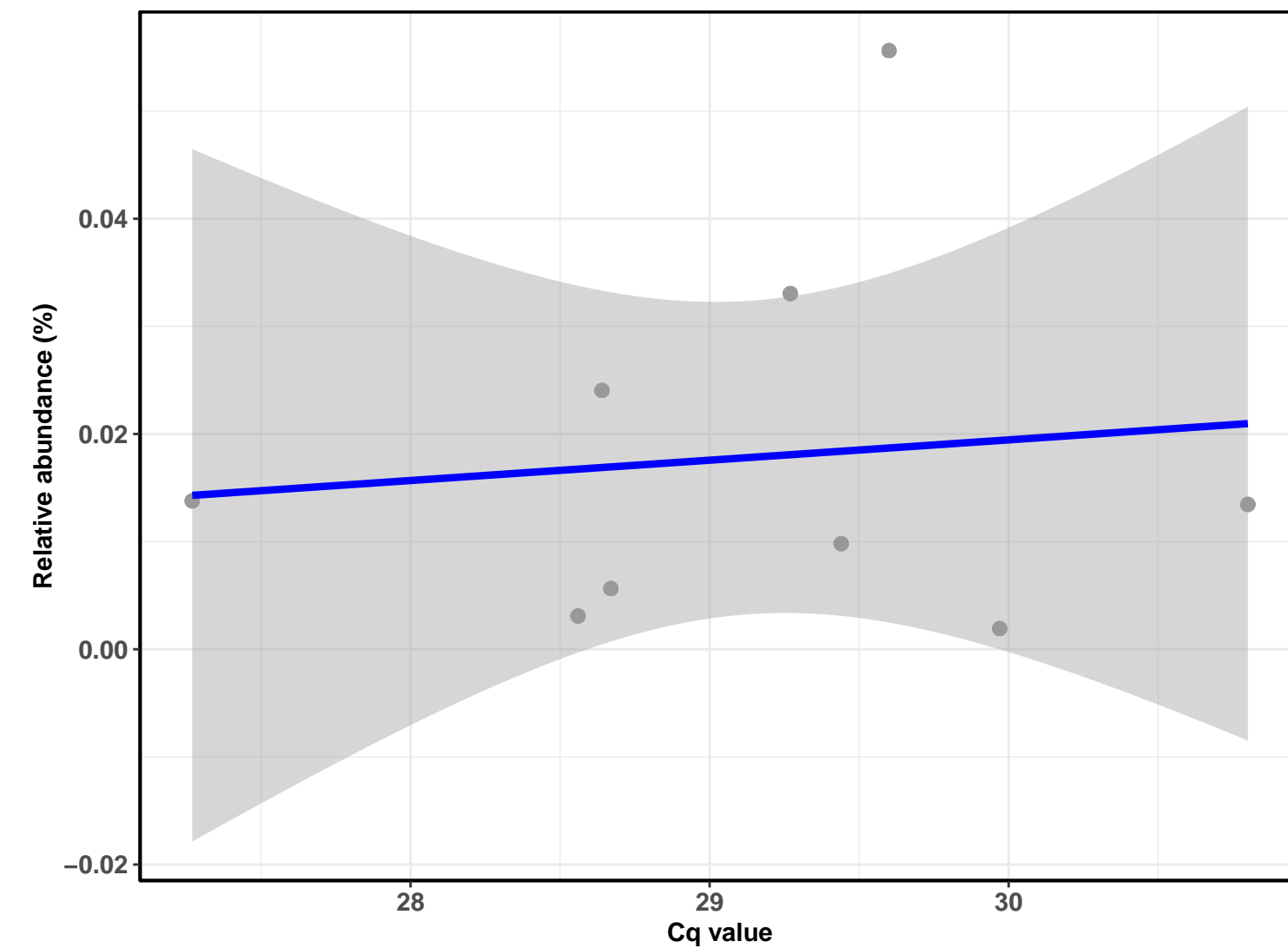
D\_0\_\_Bacteria; D\_1\_\_Proteobacteria; D\_2\_\_Gammaproteobacteria; D\_3\_\_Enterobacteriales; D\_4\_\_Enterobacteriaceae; D\_5\_\_Escherichia-Shigella

Correlation with all samples



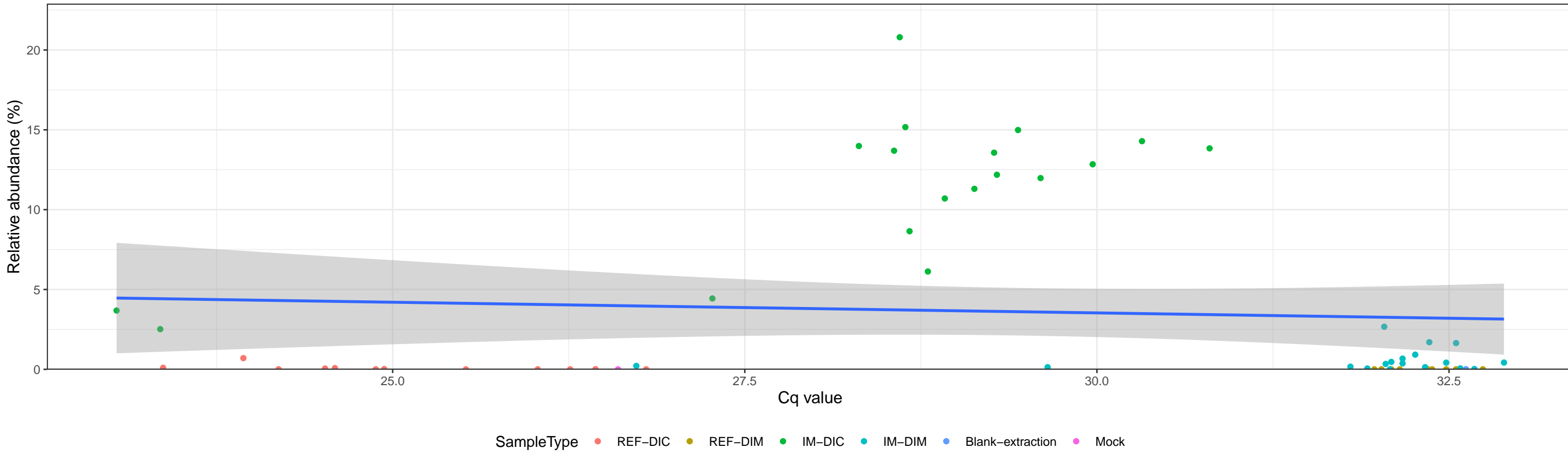
Correlation within the sample type: IM-DIC

$\log_e(S) = 4.820$ ,  $p = 0.932$ ,  $\rho_{\text{Spearman}} = -0.033$ ,  $CI_{95\%} [-0.682, 0.645]$ ,  $n = 9$



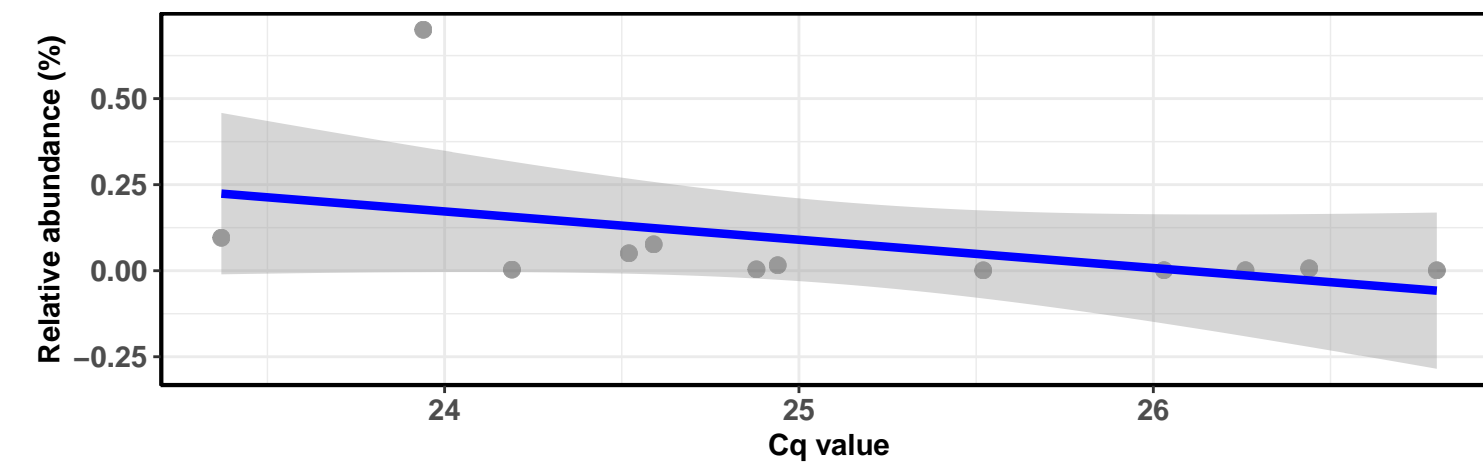
D\_0\_\_Bacteria; D\_1\_\_Firmicutes; D\_2\_\_Bacilli; D\_3\_\_Lactobacillales

### Correlation with all samples



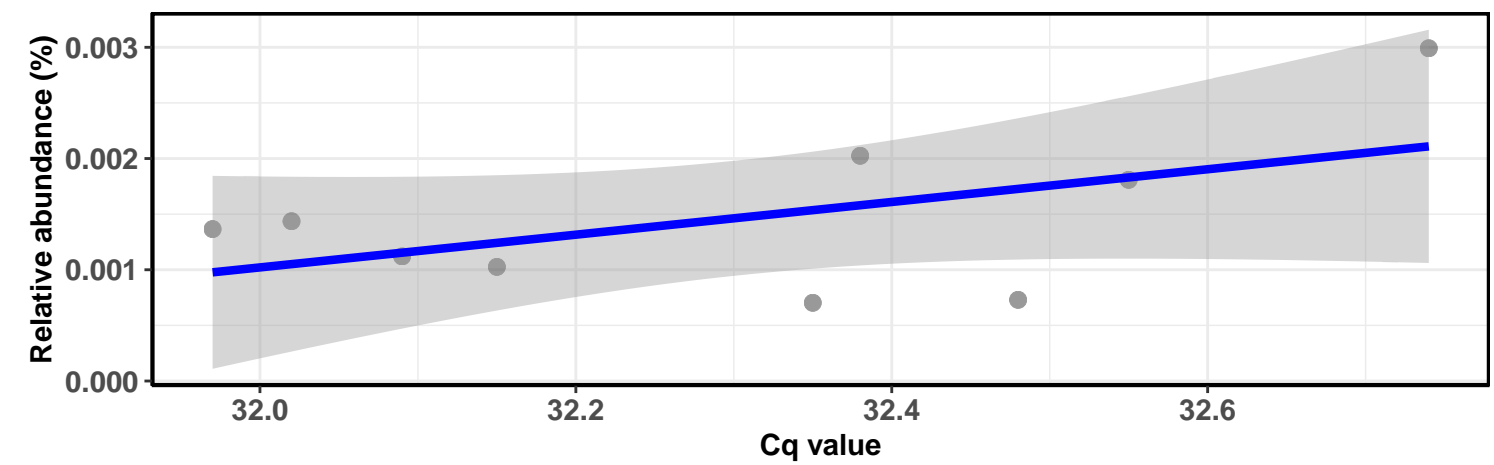
#### Correlation within the sample type: REF-DIC

$\log_e(S) = 6.203$ ,  $p = 0.007$ ,  $\rho_{\text{Spearman}} = -0.727$ ,  $\text{CI}_{95\%} [-0.918, -0.263]$ ,  $n = 12$



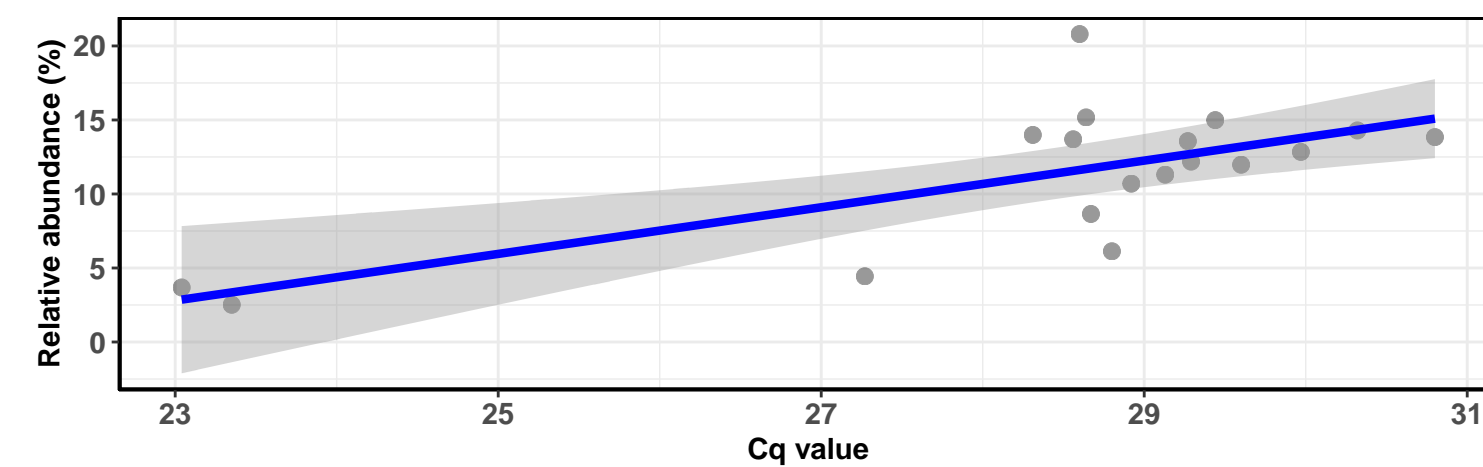
#### Correlation within the sample type: REF-DIM

$\log_e(S) = 4.382$ ,  $p = 0.381$ ,  $\rho_{\text{Spearman}} = 0.333$ ,  $\text{CI}_{95\%} [-0.425, 0.817]$ ,  $n = 9$



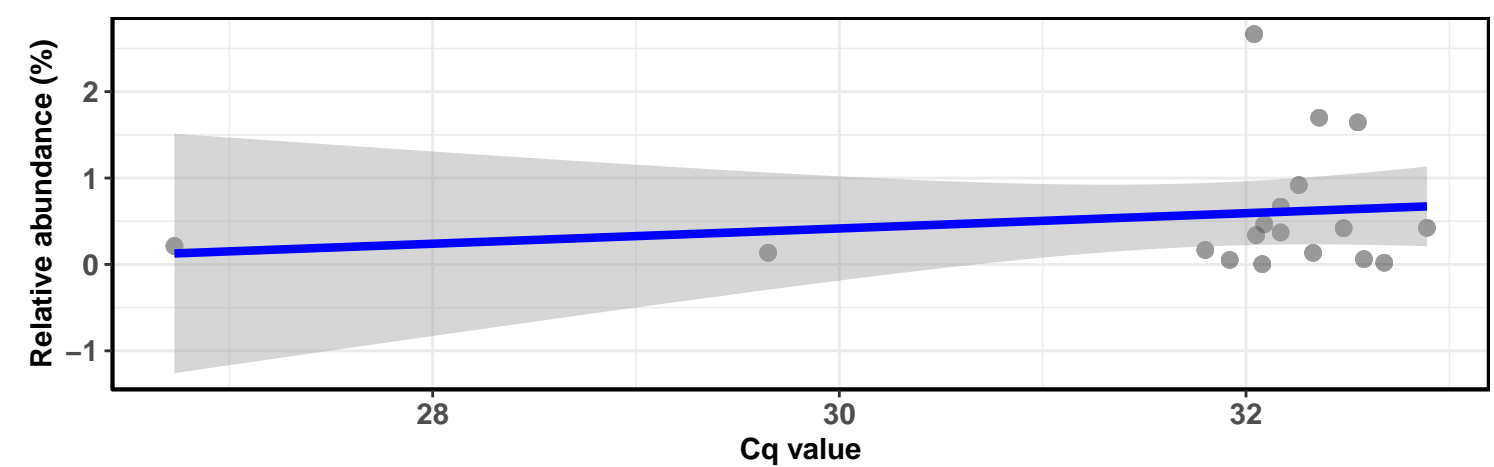
#### Correlation within the sample type: IM-DIC

$\log_e(S) = 6.390$ ,  $p = 0.115$ ,  $\rho_{\text{Spearman}} = 0.385$ ,  $\text{CI}_{95\%} [-0.100, 0.722]$ ,  $n = 18$



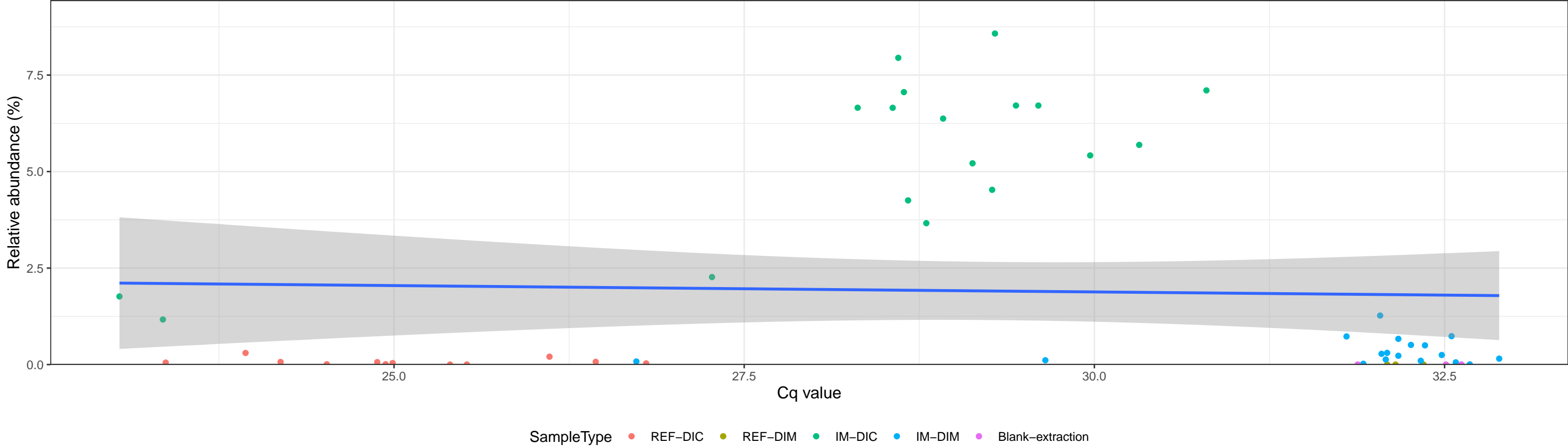
#### Correlation within the sample type: IM-DIM

$\log_e(S) = 6.731$ ,  $p = 0.593$ ,  $\rho_{\text{Spearman}} = 0.135$ ,  $\text{CI}_{95\%} [-0.354, 0.566]$ ,  $n = 18$



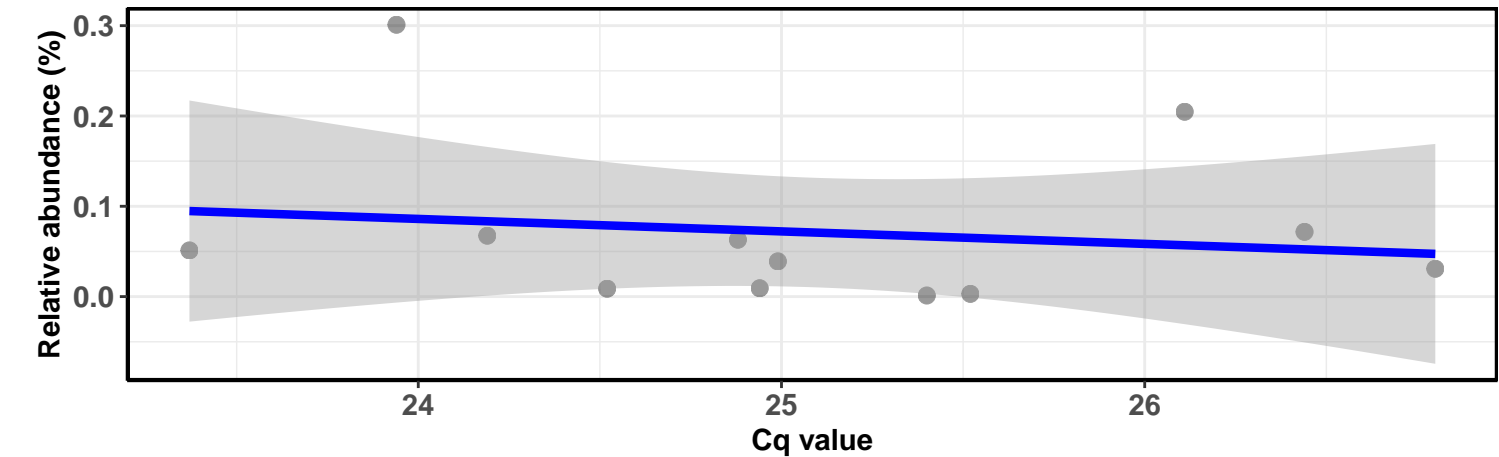
D\_0\_\_Bacteria; D\_1\_\_Actinobacteria; D\_2\_\_Actinobacteria; D\_3\_\_Corynebacteriales; D\_4\_\_Corynebacteriaceae; D\_5\_\_Corynebacterium 1; Ambiguous\_taxa

Correlation with all samples

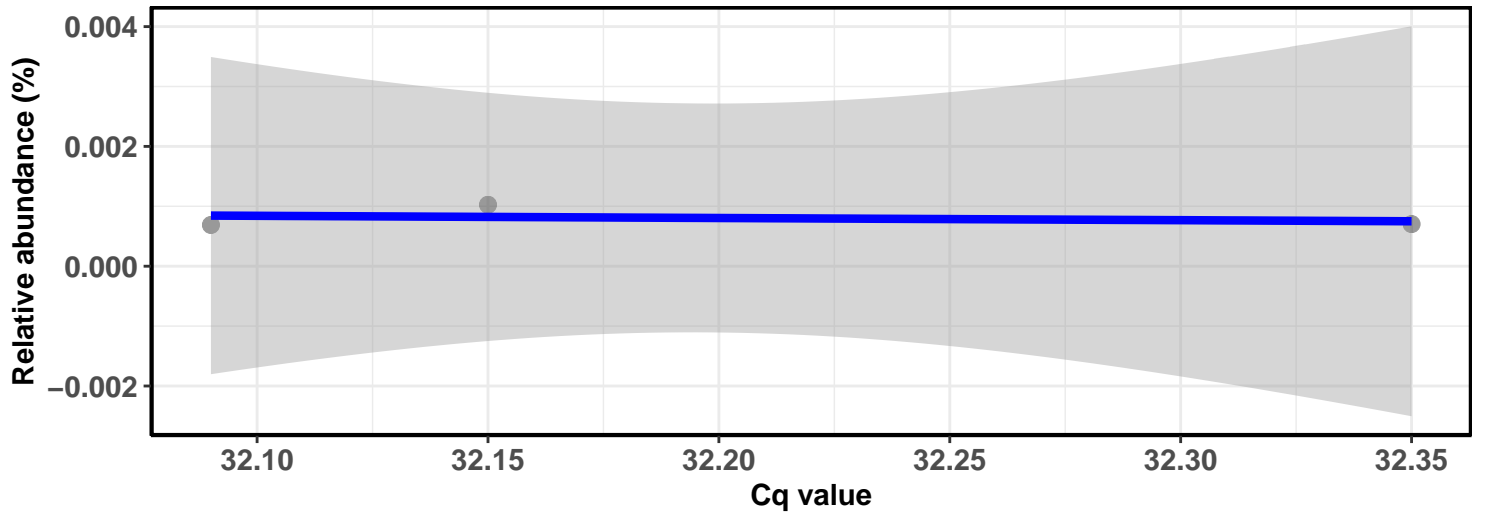


Correlation within the sample type: REF-DIC

$\log_e(S) = 5.817$ ,  $p = 0.587$ ,  $\rho_{\text{Spearman}} = -0.175$ ,  $CI_{95\%} [-0.680, 0.444]$ ,  $n = 12$

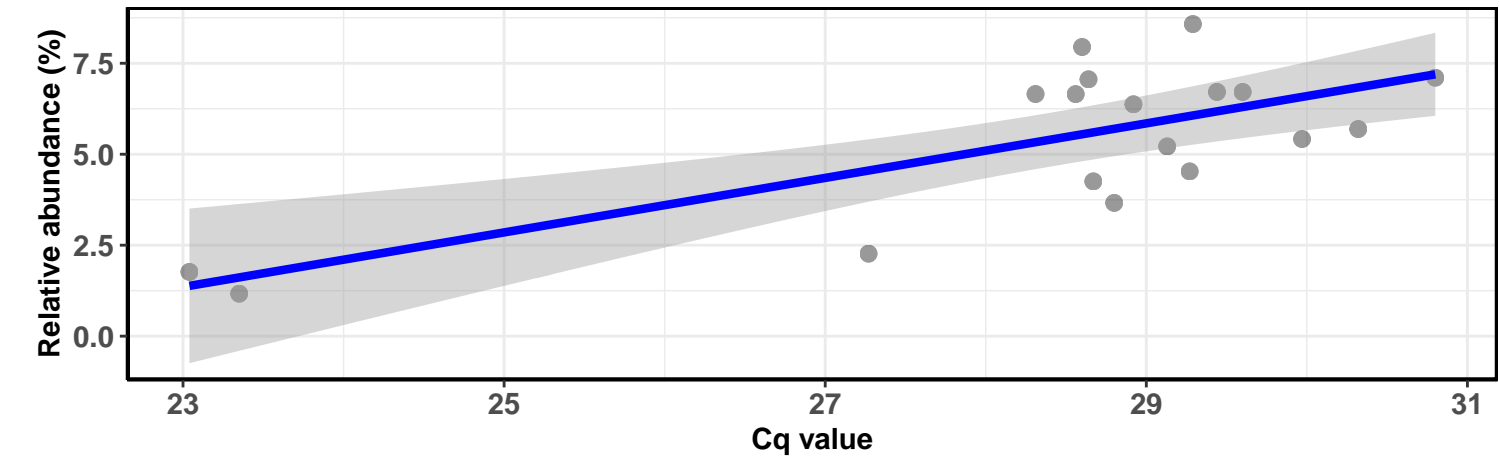


Correlation within the sample type: REF-DIM



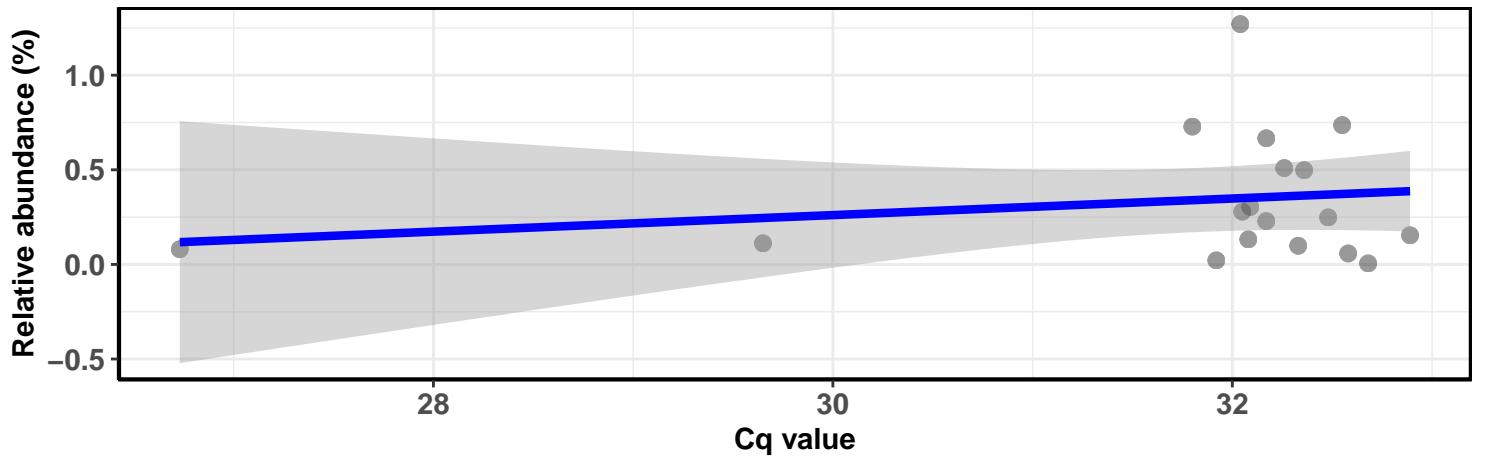
Correlation within the sample type: IM-DIC

$\log_e(S) = 6.280$ ,  $p = 0.062$ ,  $\rho_{\text{Spearman}} = 0.449$ ,  $CI_{95\%} [-0.023, 0.757]$ ,  $n = 18$



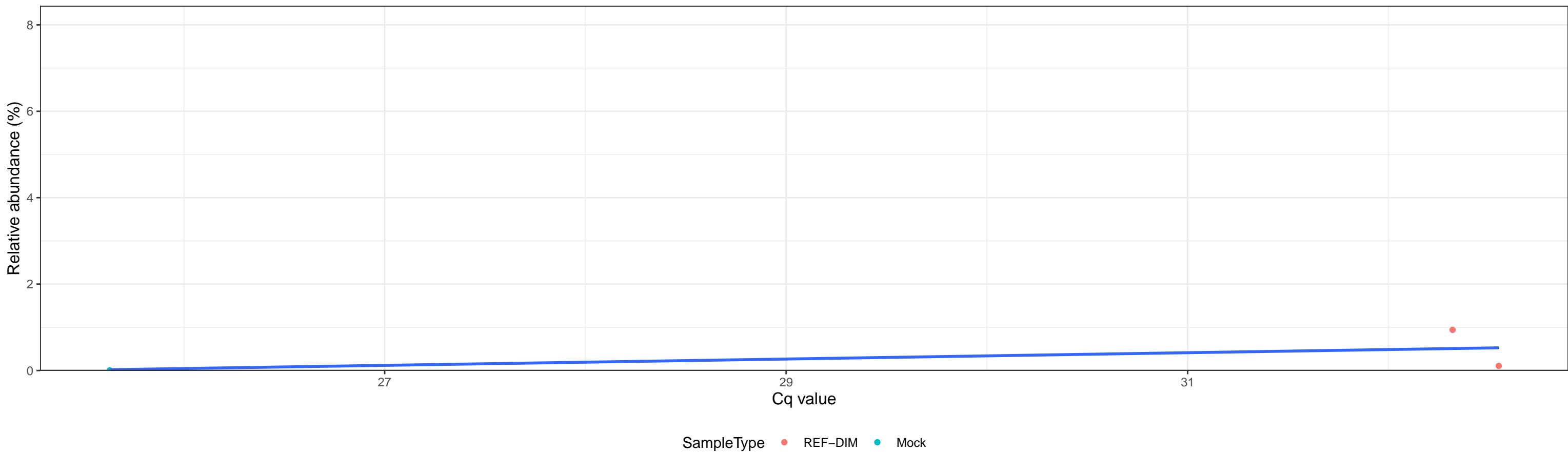
Correlation within the sample type: IM-DIM

$\log_e(S) = 6.949$ ,  $p = 0.766$ ,  $\rho_{\text{Spearman}} = -0.075$ ,  $CI_{95\%} [-0.524, 0.406]$ ,  $n = 18$

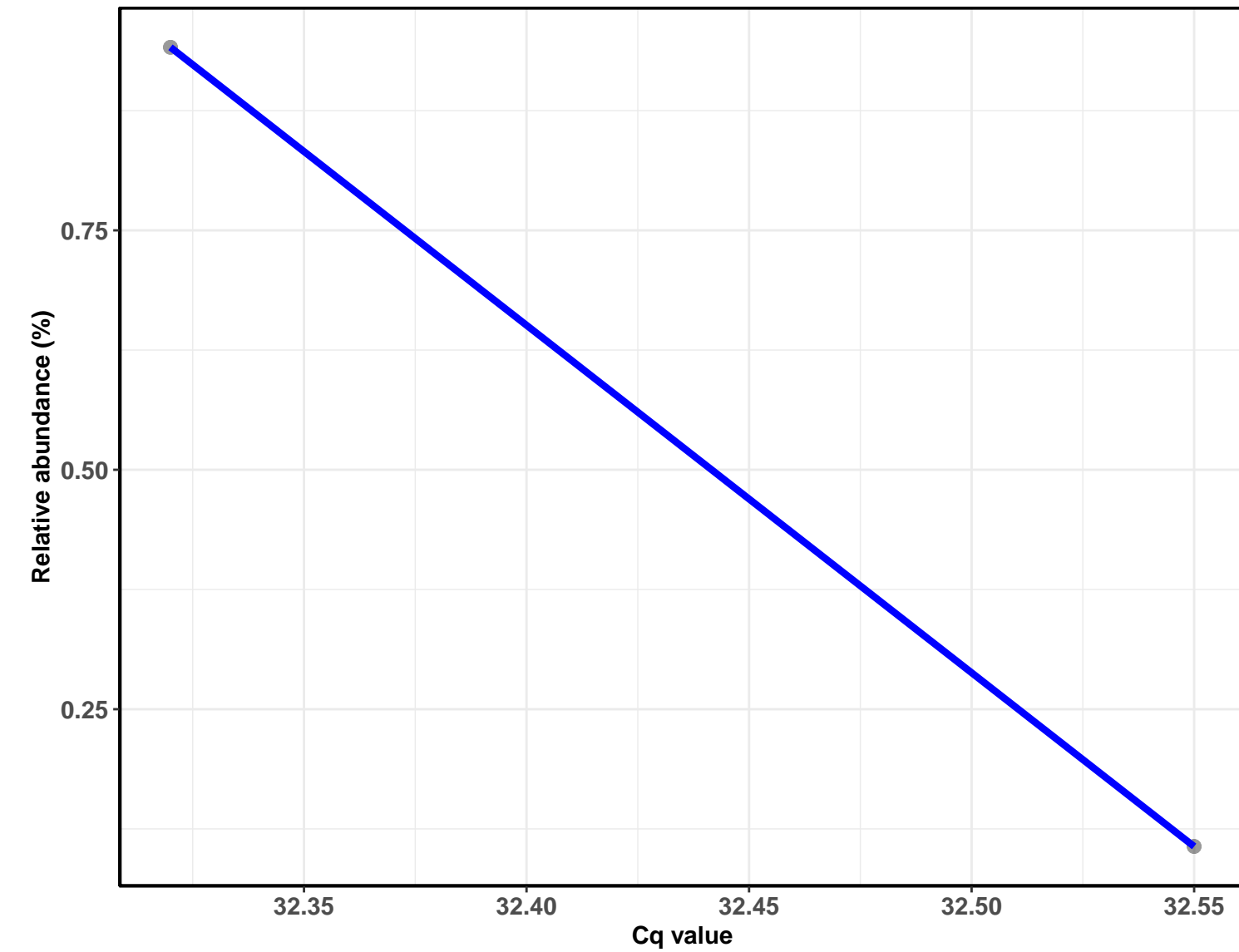


D\_0\_\_Bacteria; D\_1\_\_Cyanobacteria; D\_2\_\_Melainabacteria; D\_3\_\_Obscuribacterales; Ambiguous\_taxa; Ambiguous\_taxa; Ambiguous\_taxa

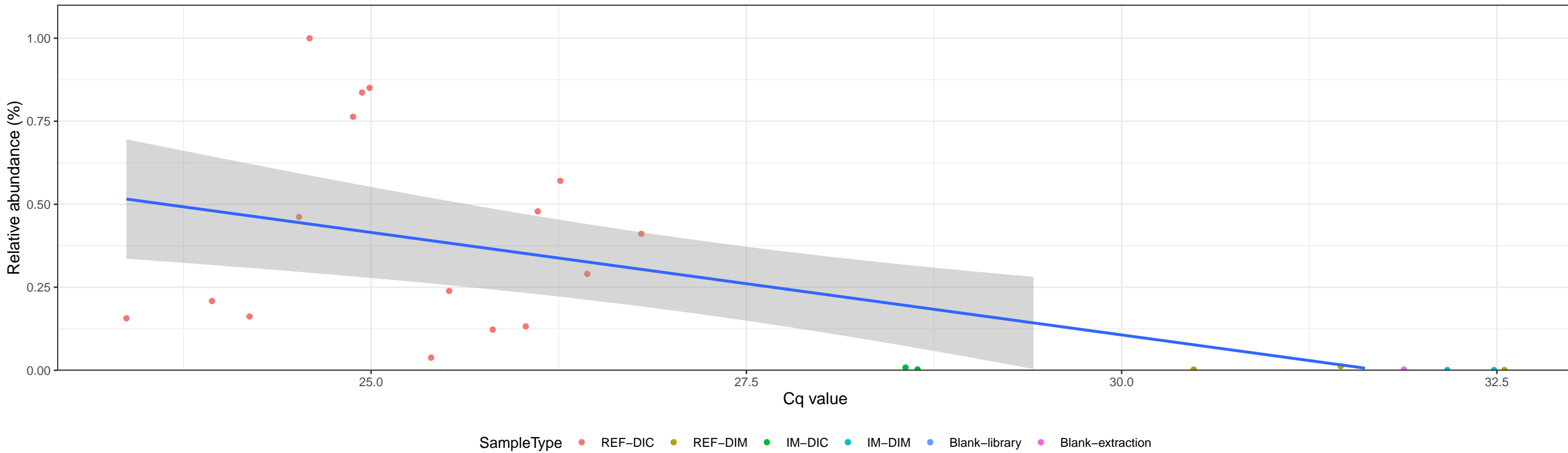
Correlation with all samples



Correlation within the sample type: REF-DIM

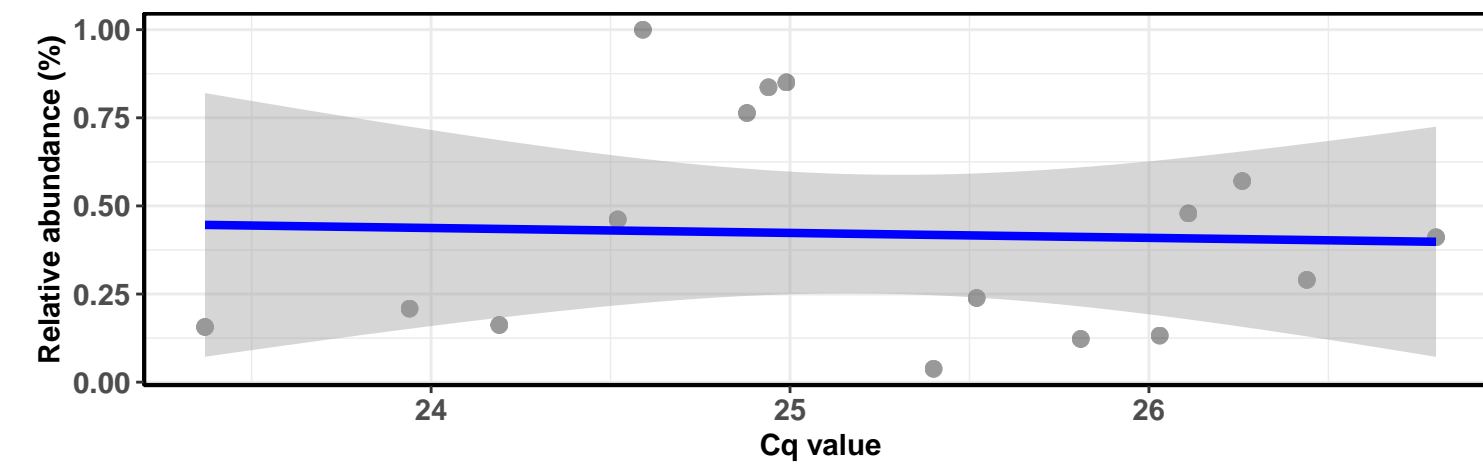


Correlation with all samples

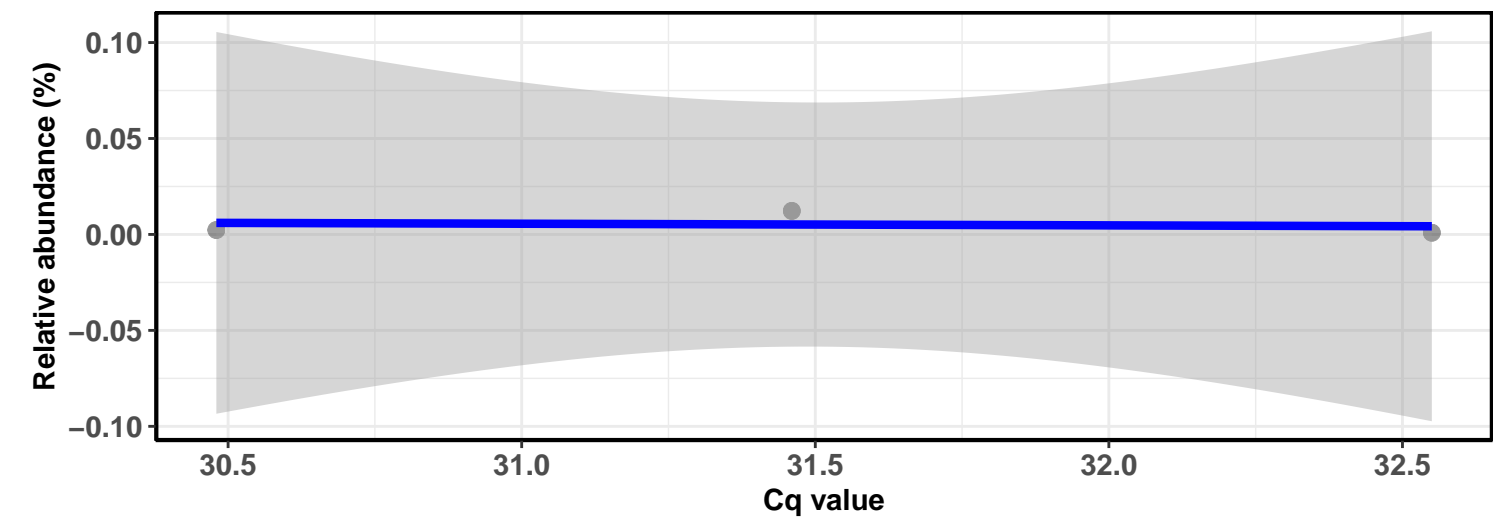


Correlation within the sample type: REF-DIC

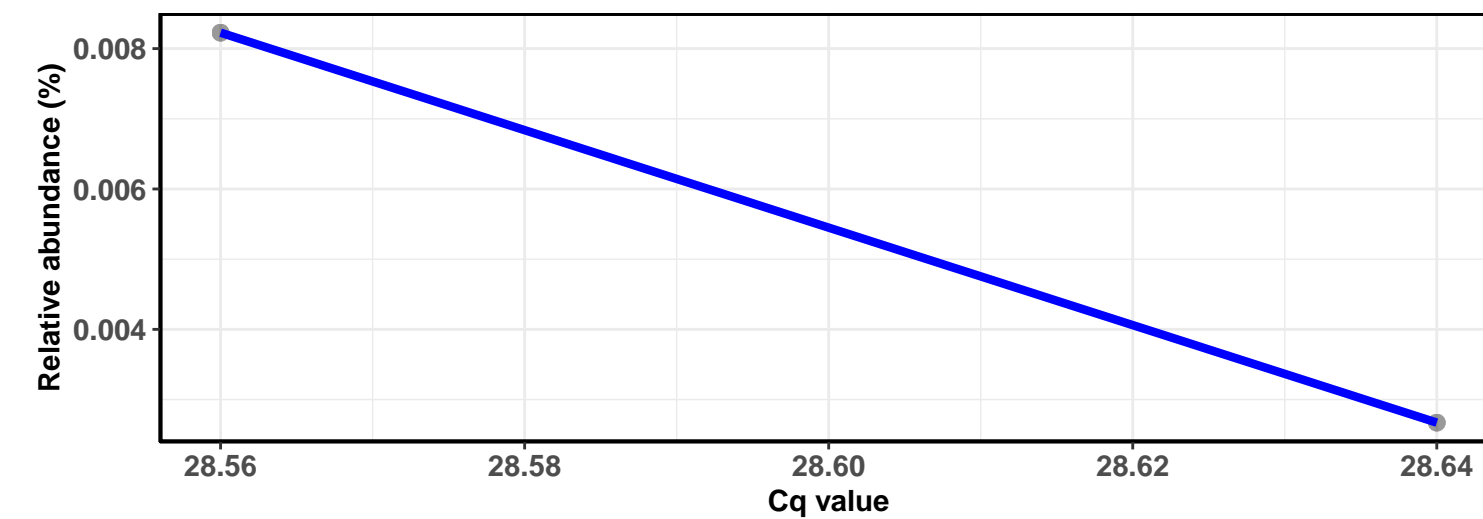
$\log_e(S) = 6.513$ ,  $p = 0.974$ ,  $\rho_{\text{Spearman}} = 0.009$ ,  $CI_{95\%} [-0.489, 0.502]$ ,  $n = 16$



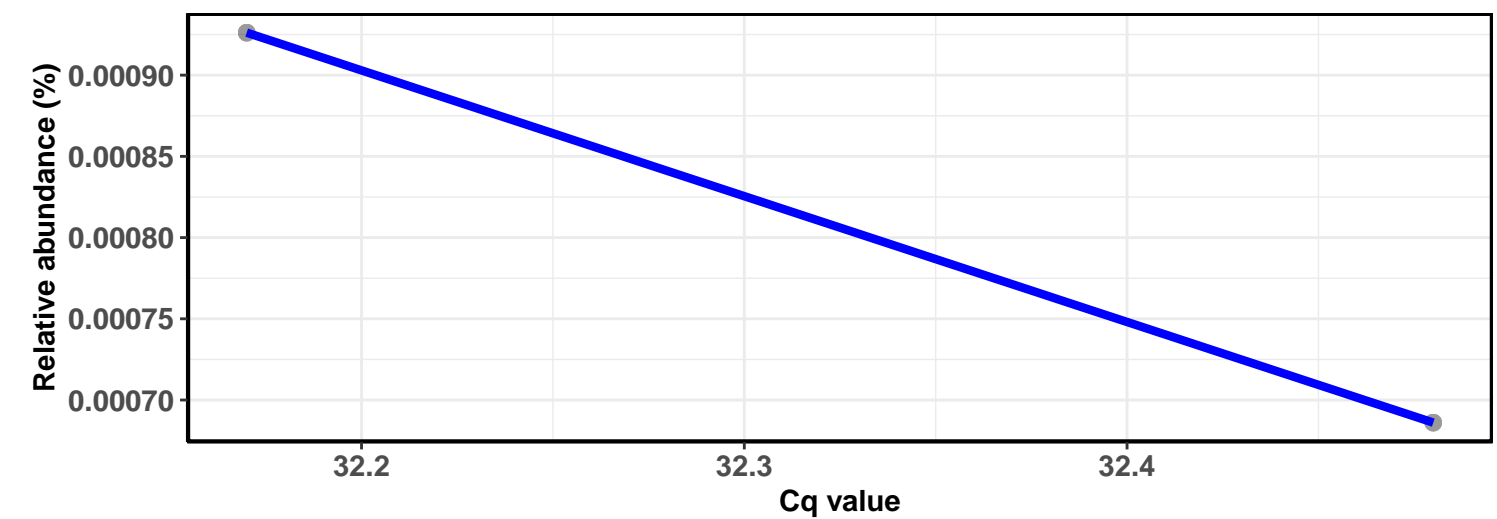
Correlation within the sample type: REF-DIM



Correlation within the sample type: IM-DIC



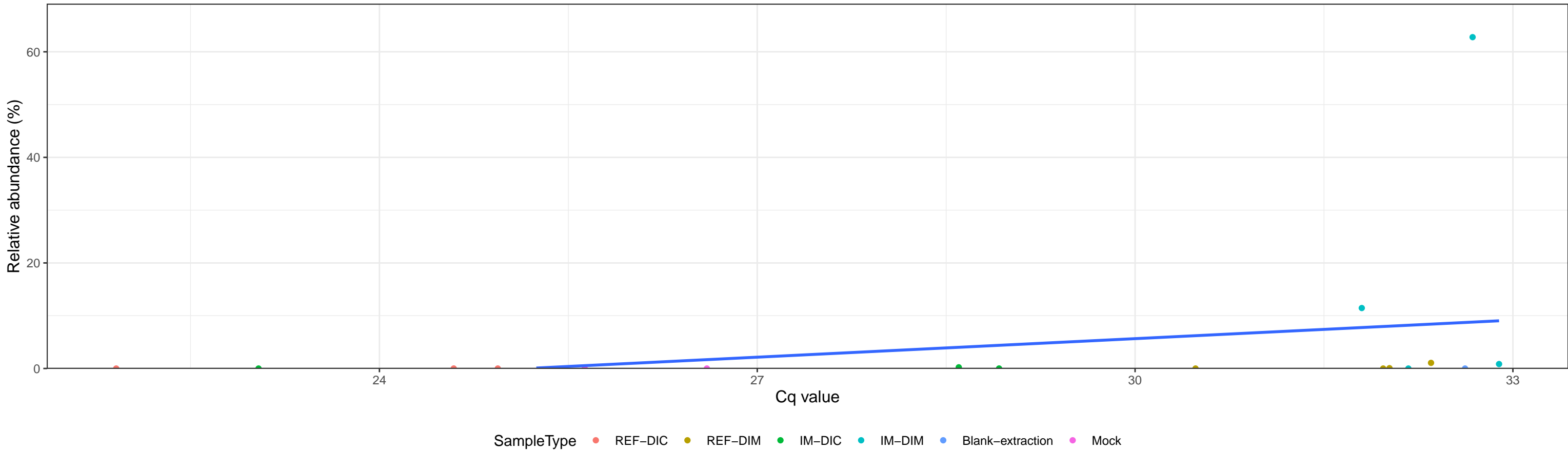
Correlation within the sample type: IM-DIM



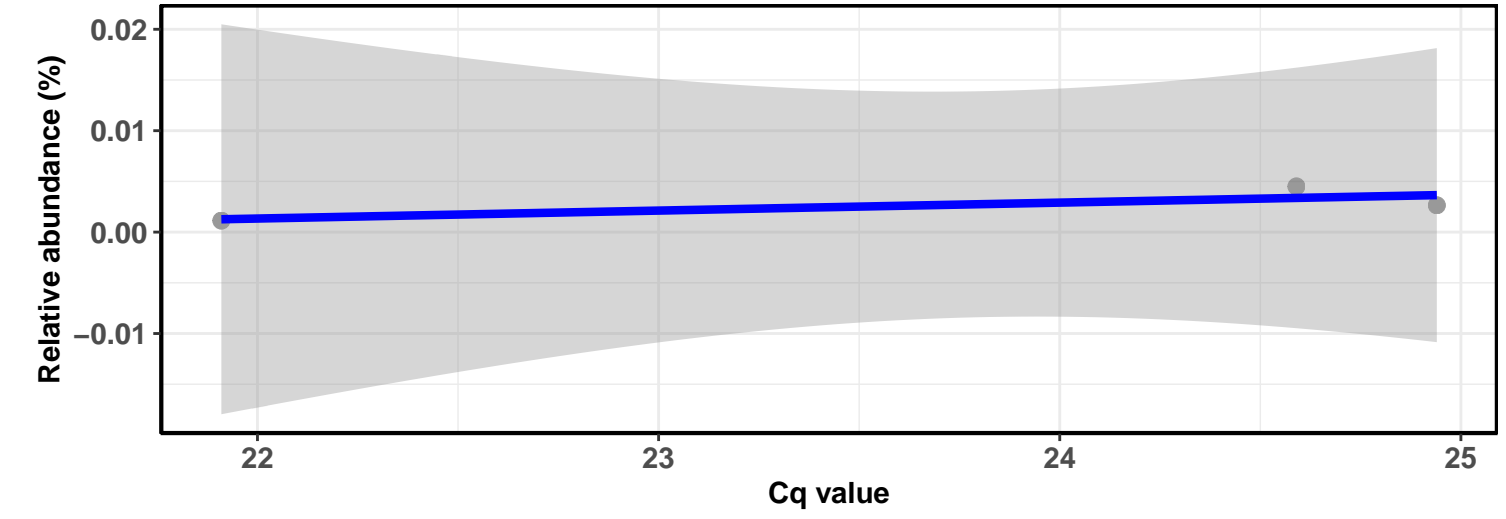


D\_0\_\_Bacteria; D\_1\_\_Tenericutes; D\_2\_\_Mollicutes; D\_3\_\_Mycoplasmatales; D\_4\_\_Mycoplasmataceae; D\_5\_\_Mycoplasma; D\_6\_\_uncultured Mycoplasma sp.

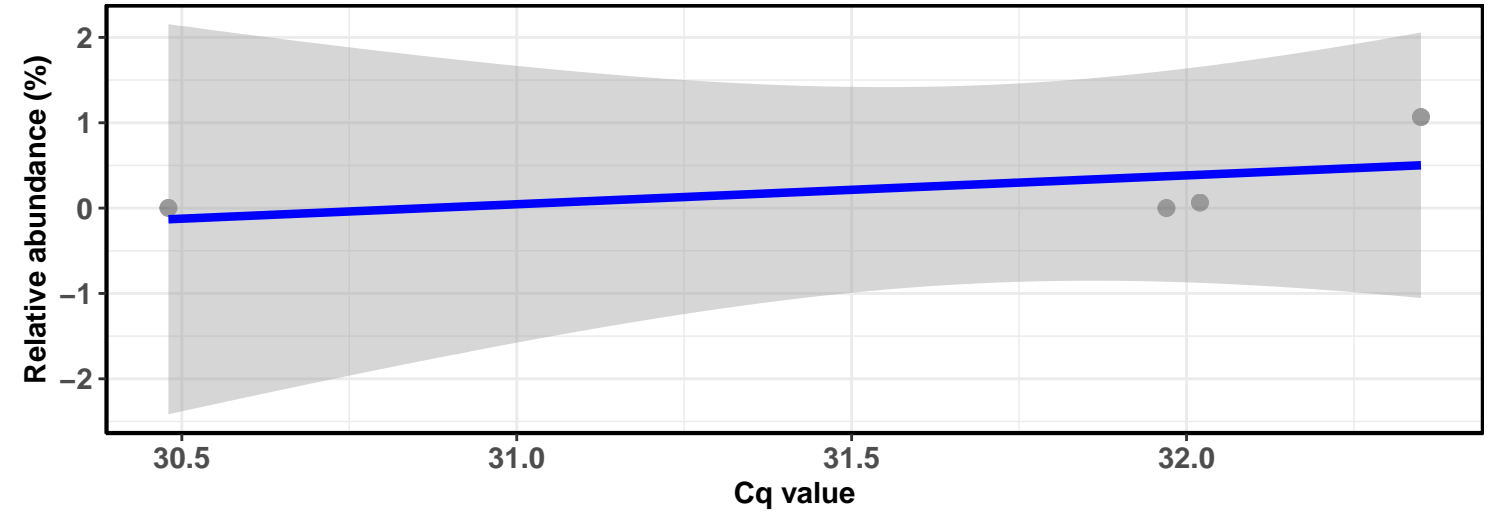
Correlation with all samples



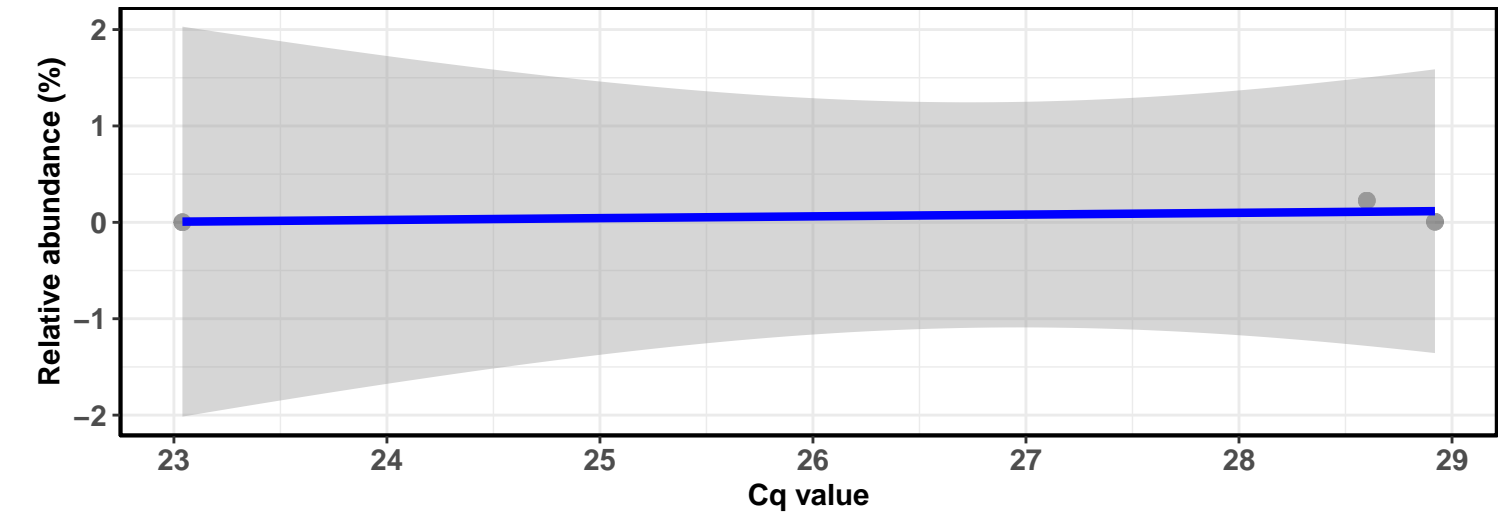
Correlation within the sample type: REF-DIC



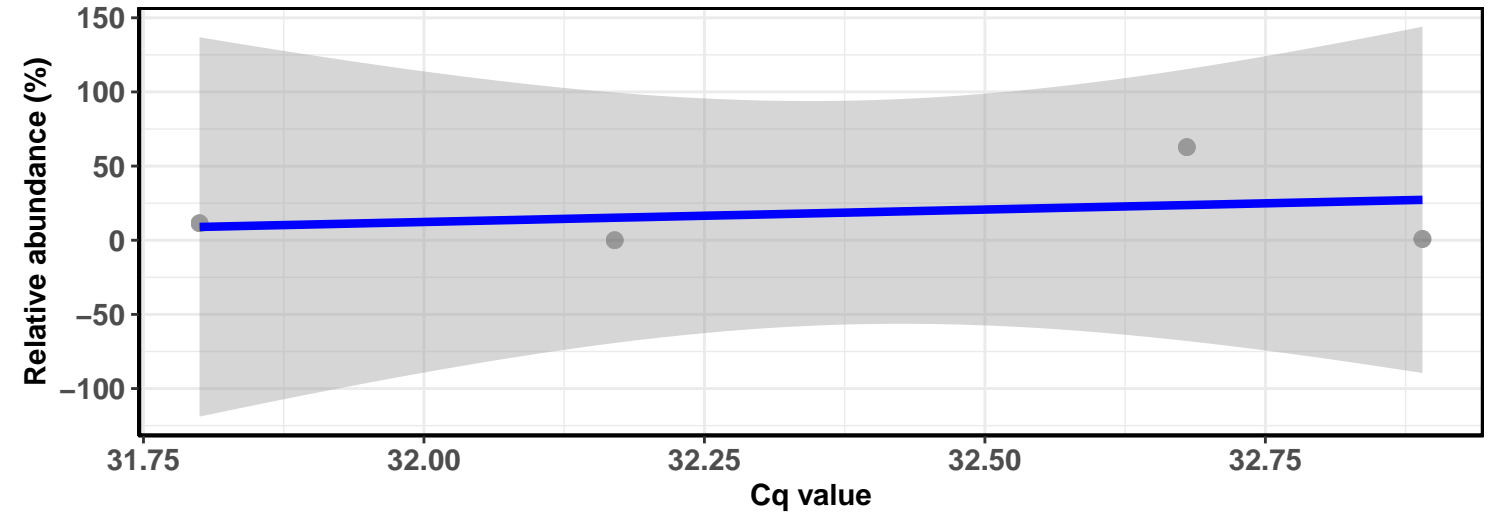
Correlation within the sample type: REF-DIM



Correlation within the sample type: IM-DIC

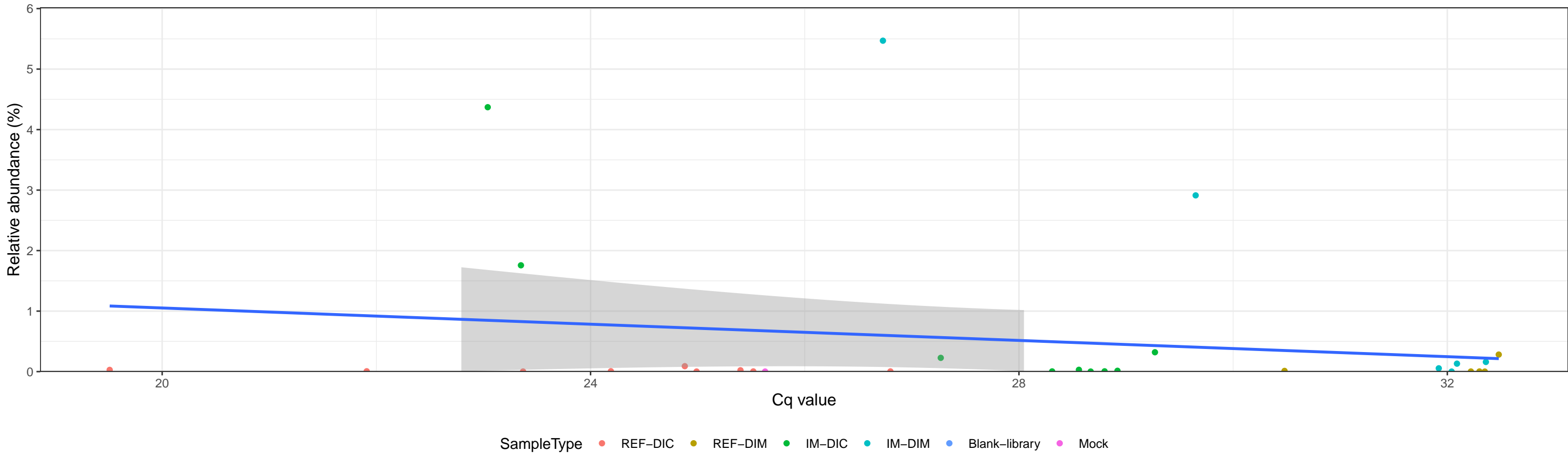


Correlation within the sample type: IM-DIM



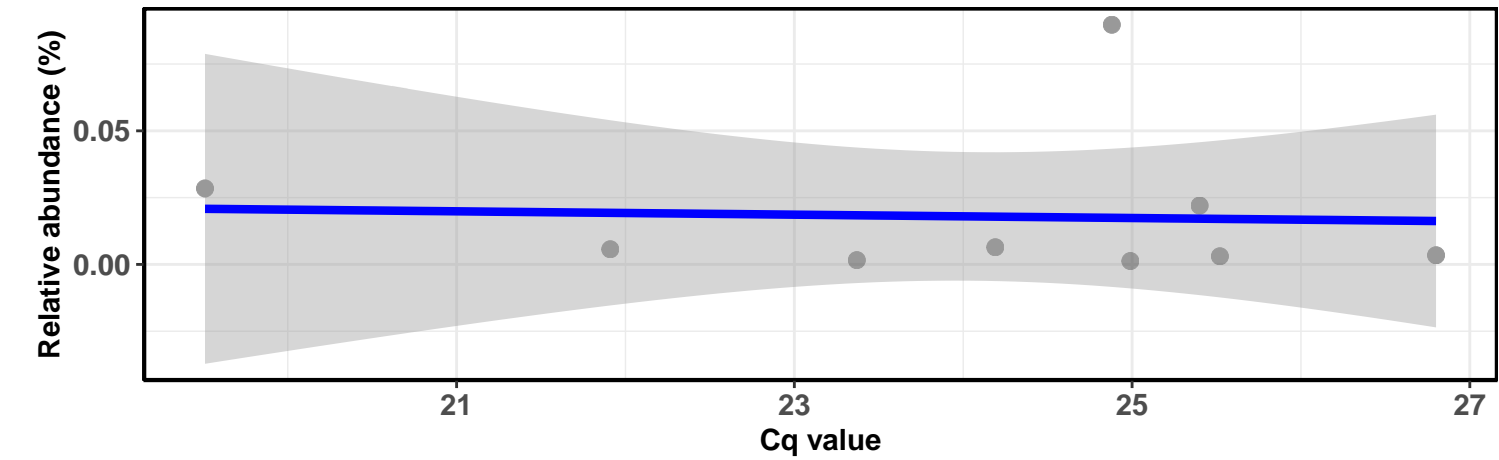
D\_0\_\_Bacteria; D\_1\_\_Proteobacteria; D\_2\_\_Gammaproteobacteria; D\_3\_\_Vibrionales; D\_4\_\_Vibrionaceae; D\_5\_\_Aliivibrio; D\_6\_\_uncultured bacterium

Correlation with all samples

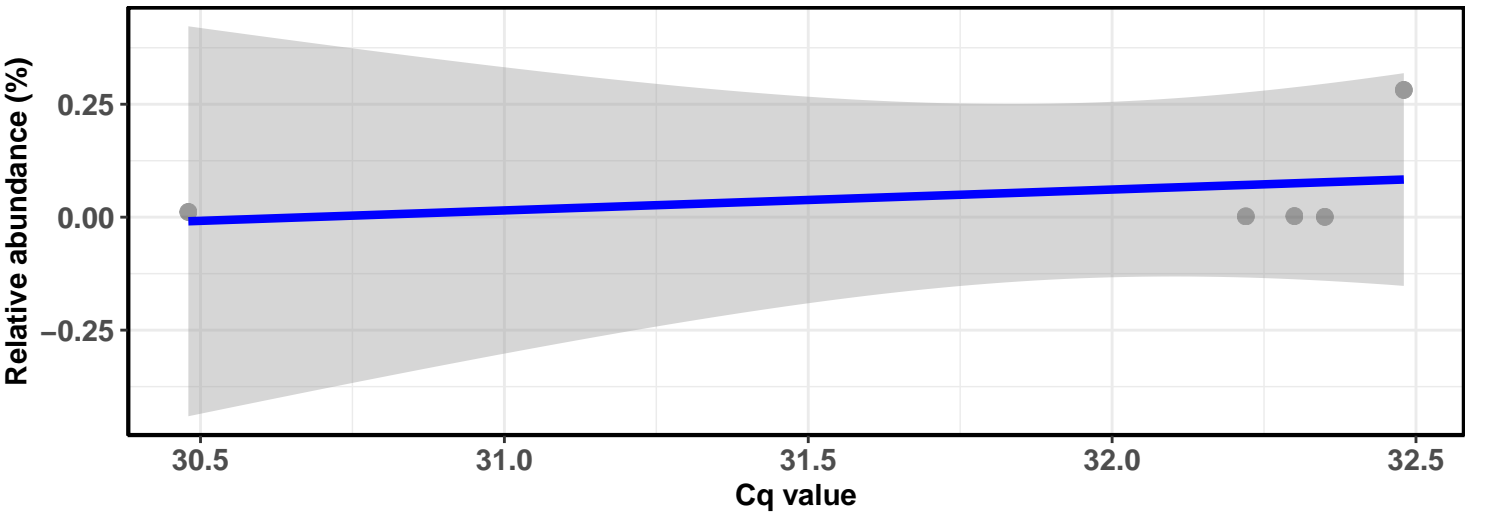


Correlation within the sample type: REF-DIC

$\log_e(S) = 5.037$ ,  $p = 0.460$ ,  $\rho_{\text{Spearman}} = -0.283$ ,  $CI_{95\%} [-0.797, 0.469]$ ,  $n = 9$

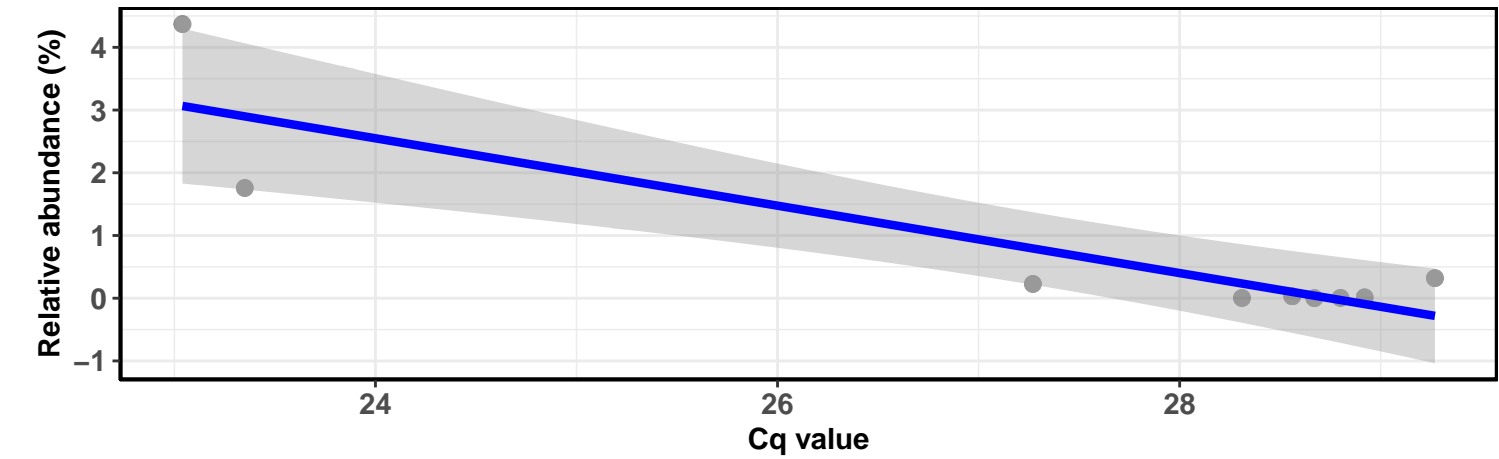


Correlation within the sample type: REF-DIM



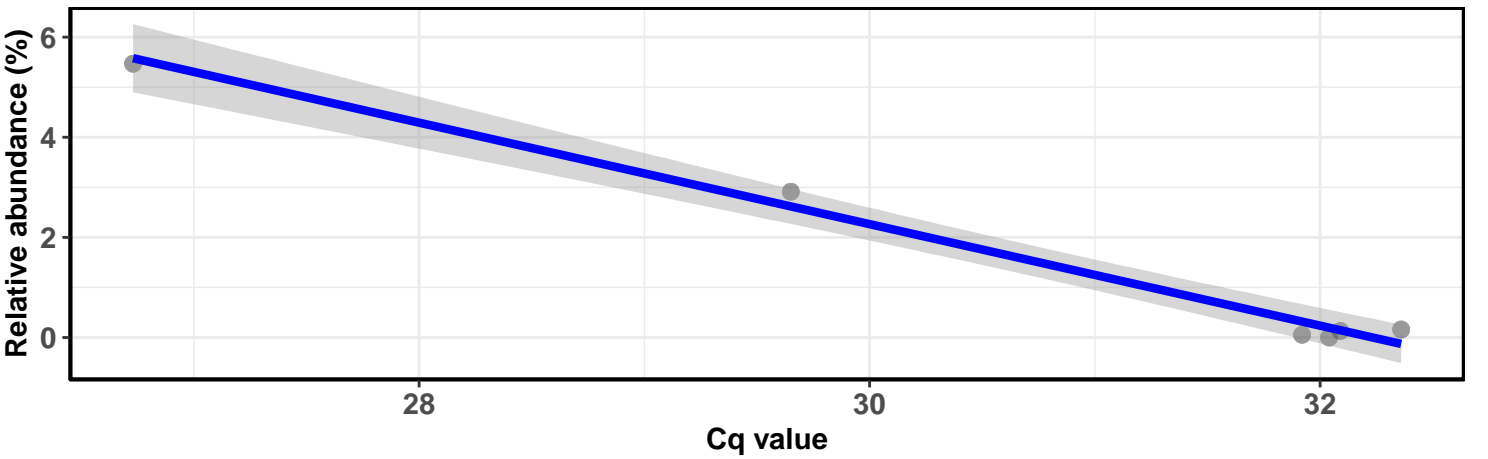
Correlation within the sample type: IM-DIC

$\log_e(S) = 5.159$ ,  $p = 0.224$ ,  $\rho_{\text{Spearman}} = -0.450$ ,  $CI_{95\%} [-0.858, 0.305]$ ,  $n = 9$



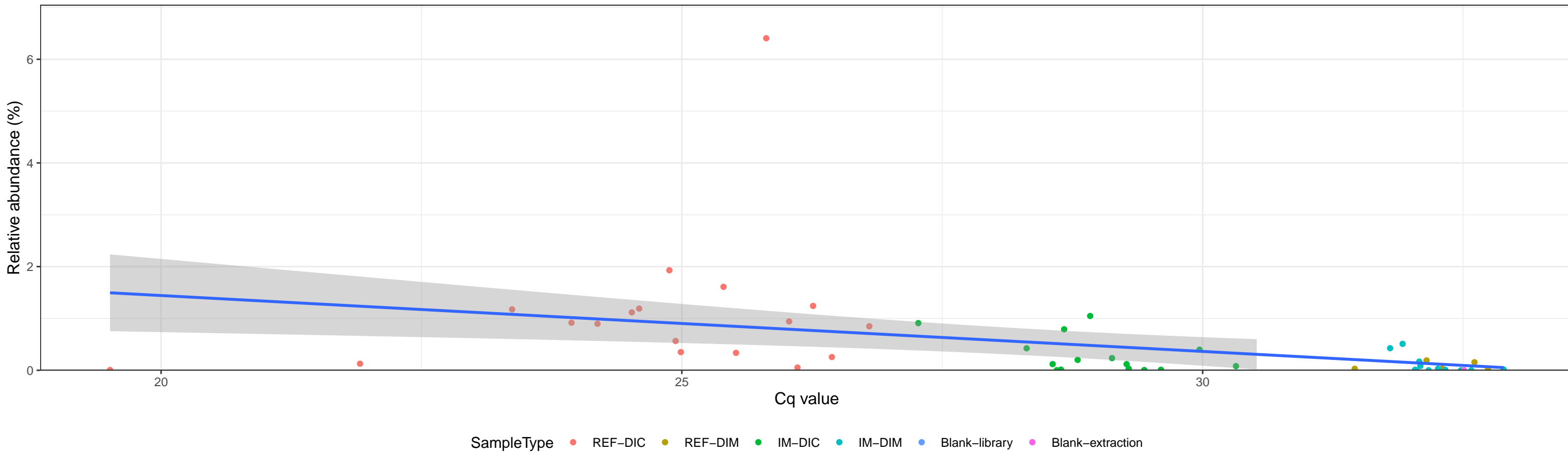
Correlation within the sample type: IM-DIM

$\log_e(S) = 3.951$ ,  $p = 0.329$ ,  $\rho_{\text{Spearman}} = -0.486$ ,  $CI_{95\%} [-0.930, 0.538]$ ,  $n = 6$



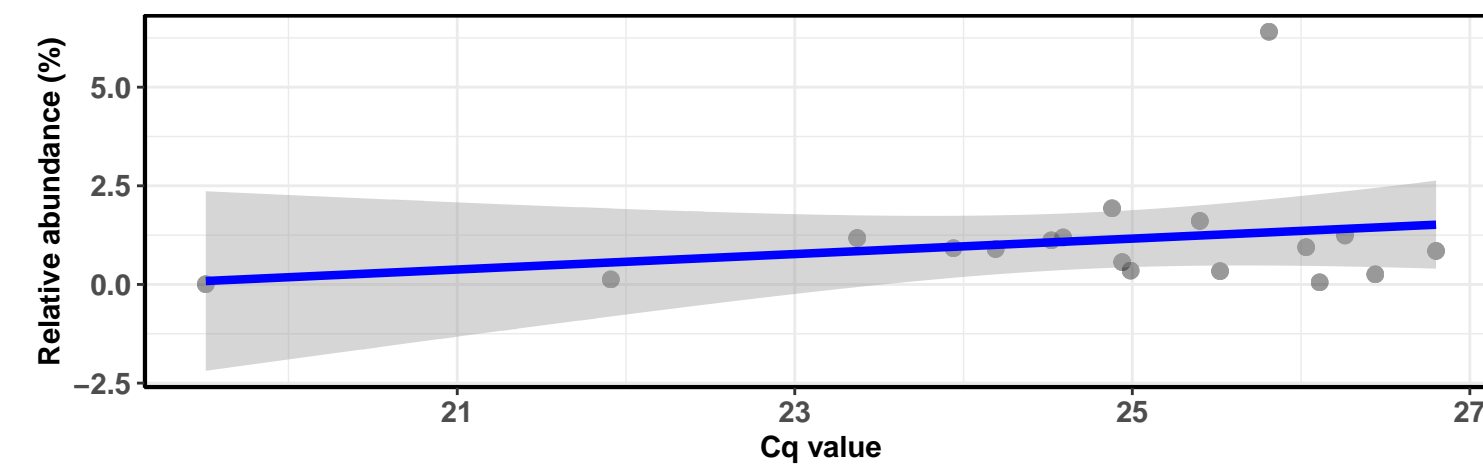
D\_0\_\_Bacteria; D\_1\_\_Proteobacteria; D\_2\_\_Gammaproteobacteria; D\_3\_\_Vibrionales; D\_4\_\_Vibrionaceae; D\_5\_\_Photobacterium

Correlation with all samples

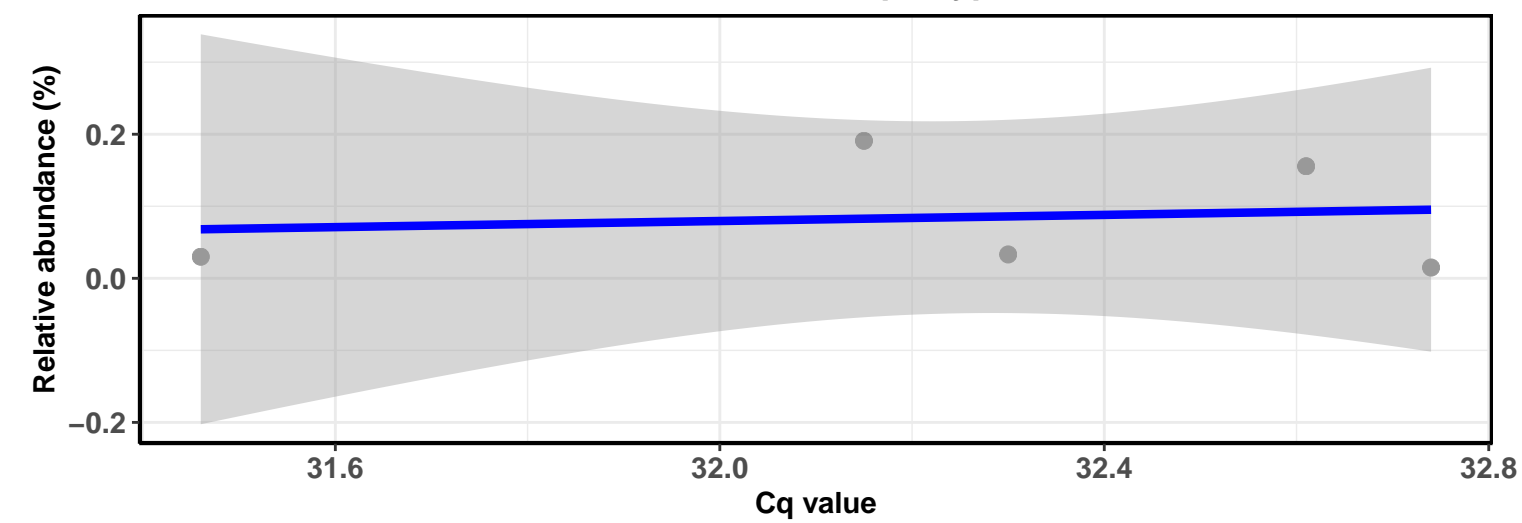


Correlation within the sample type: REF-DIC

$\log_e(S) = 6.787$ ,  $p = 0.735$ ,  $\rho_{\text{Spearman}} = 0.086$ ,  $CI_{95\%} [-0.397, 0.531]$ ,  $n = 18$

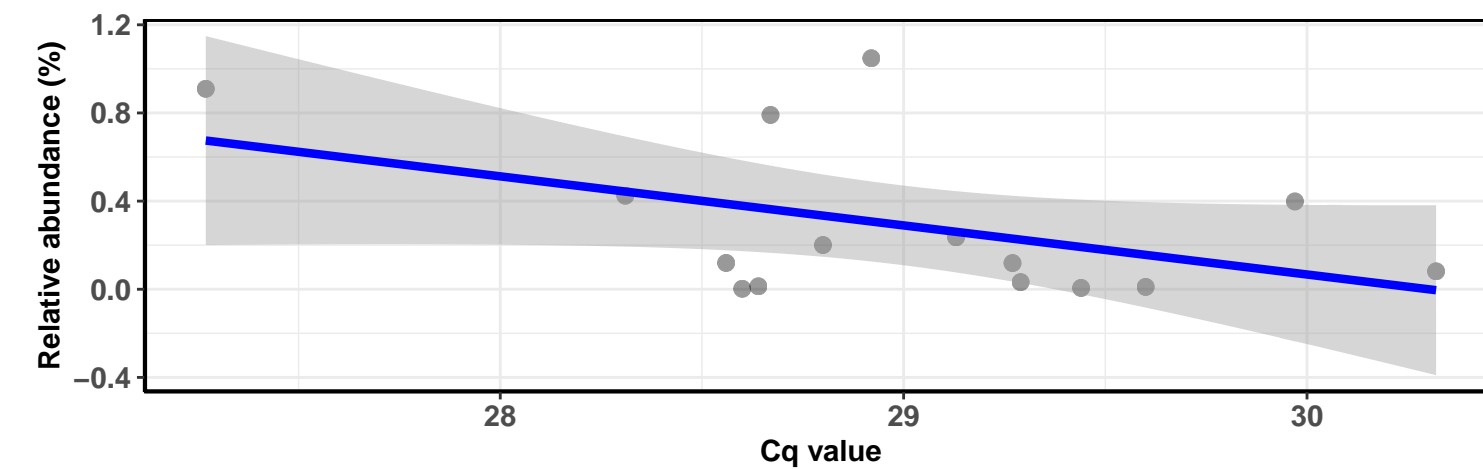


Correlation within the sample type: REF-DIM



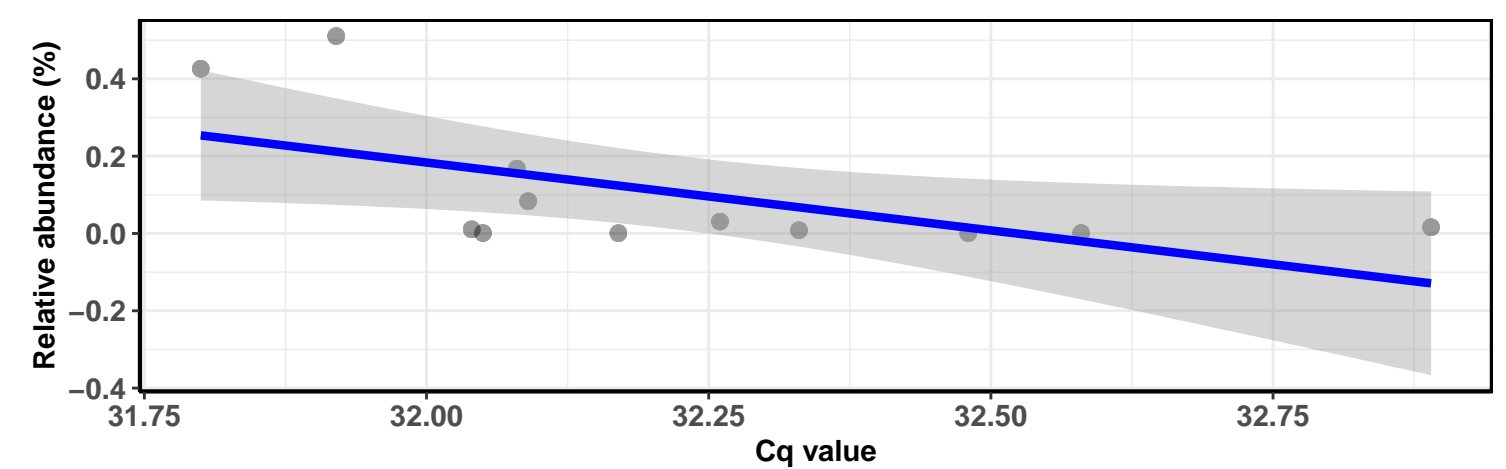
Correlation within the sample type: IM-DIC

$\log_e(S) = 6.609$ ,  $p = 0.237$ ,  $\rho_{\text{Spearman}} = -0.325$ ,  $CI_{95\%} [-0.718, 0.225]$ ,  $n = 15$



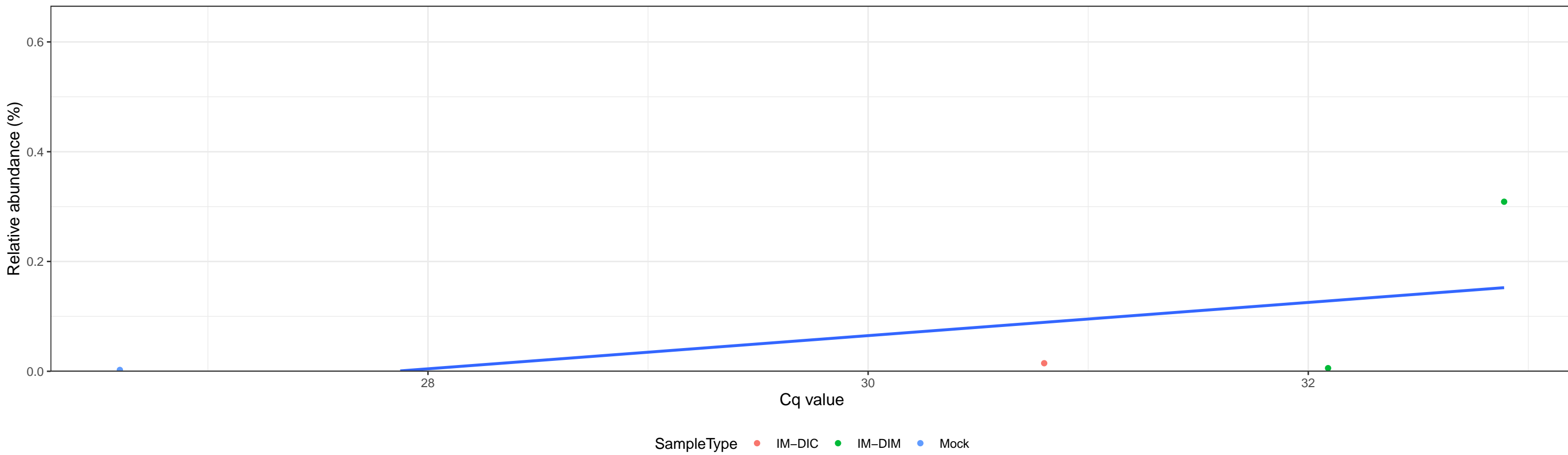
Correlation within the sample type: IM-DIM

$\log_e(S) = 6.087$ ,  $p = 0.071$ ,  $\rho_{\text{Spearman}} = -0.538$ ,  $CI_{95\%} [-0.850, 0.051]$ ,  $n = 12$

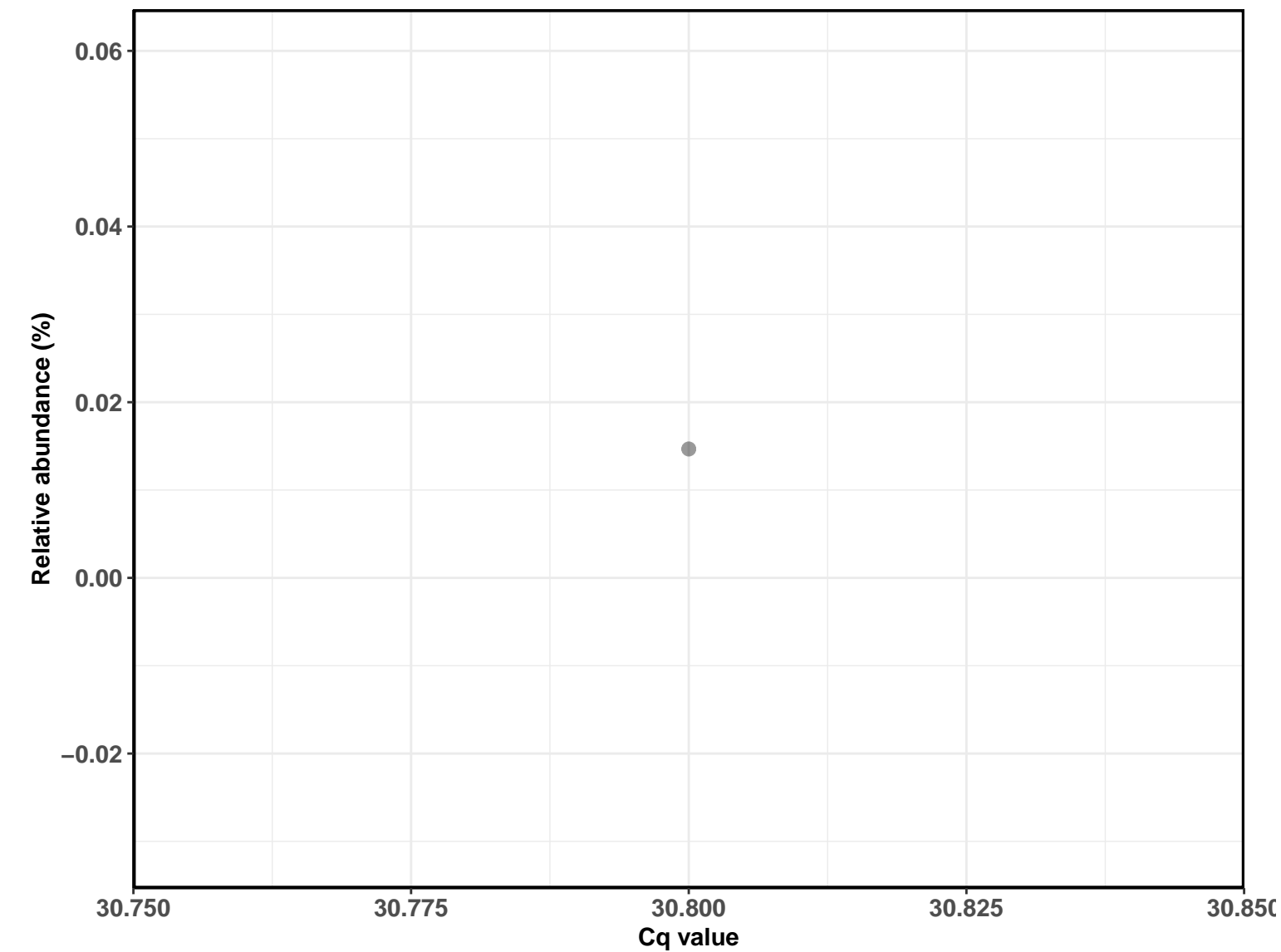


D\_0\_\_Bacteria; D\_1\_\_Actinobacteria; D\_2\_\_Actinobacteria; D\_3\_\_Micrococcales; D\_4\_\_Micrococcaceae; D\_5\_\_Arthrobacter; Ambiguous\_taxa

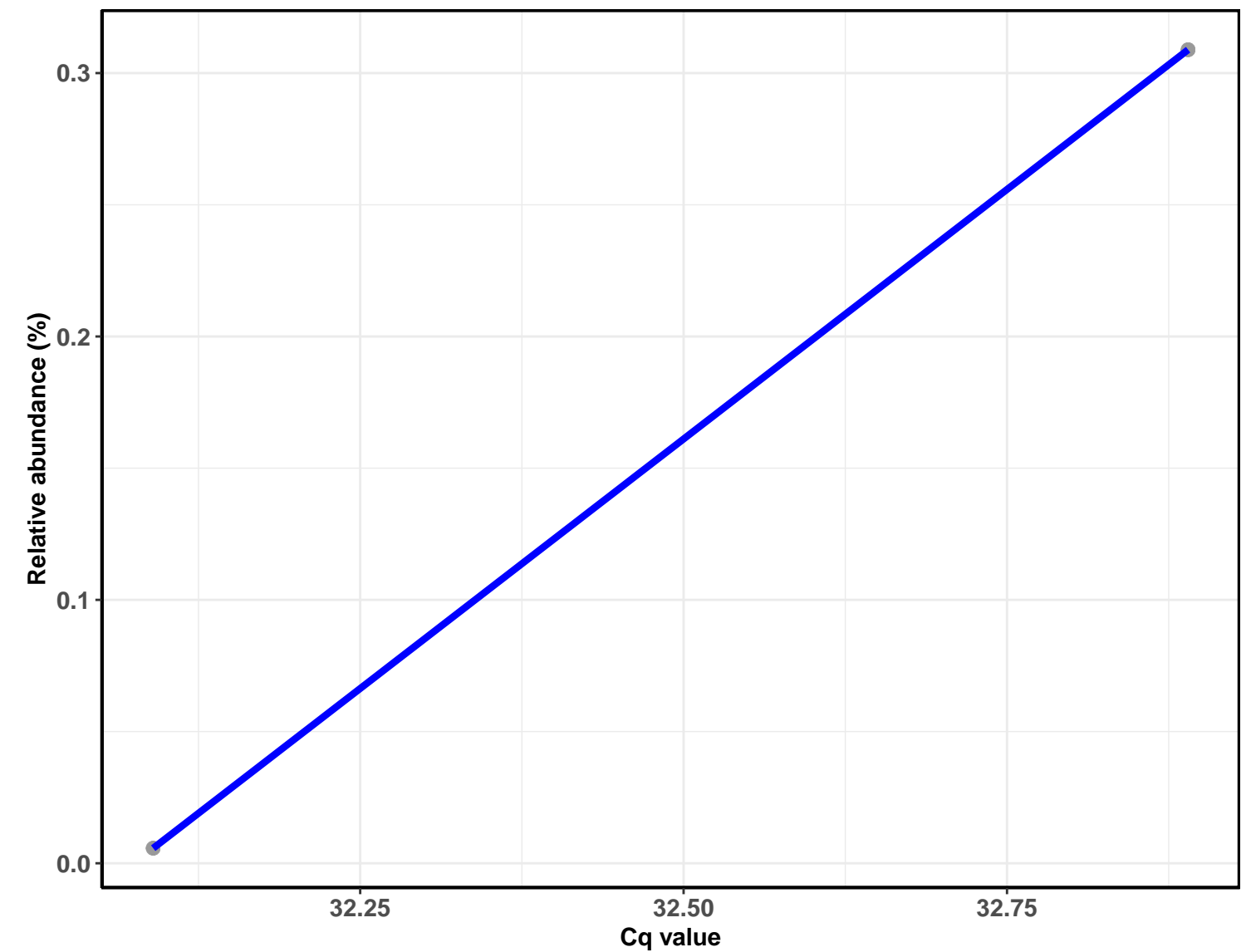
Correlation with all samples



Correlation within the sample type: IM-DIC

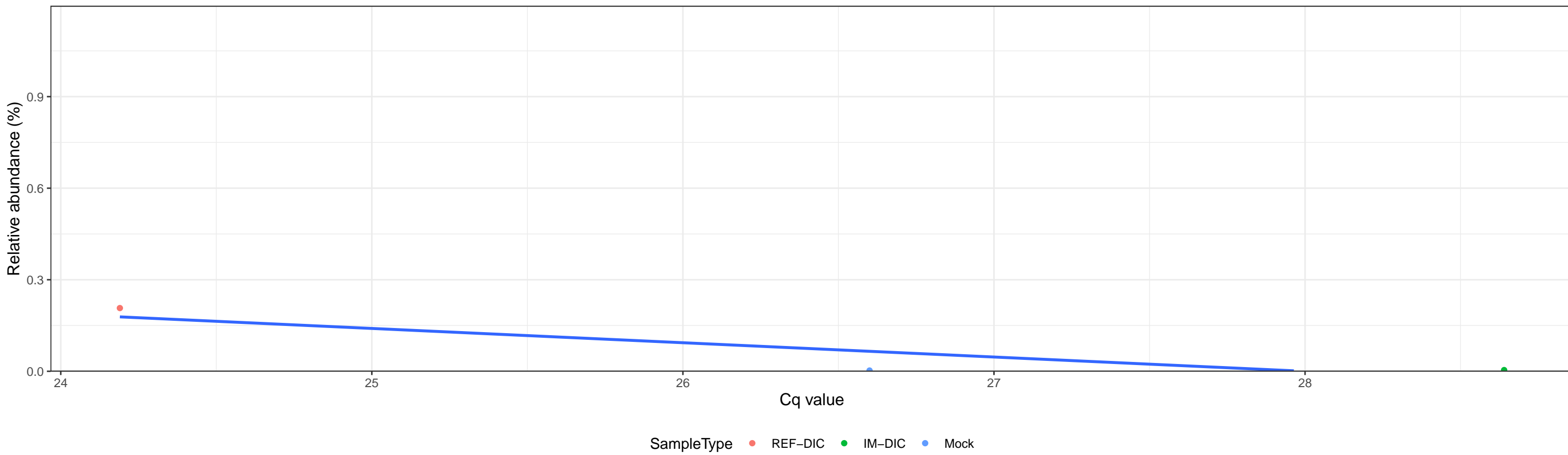


Correlation within the sample type: IM-DIM

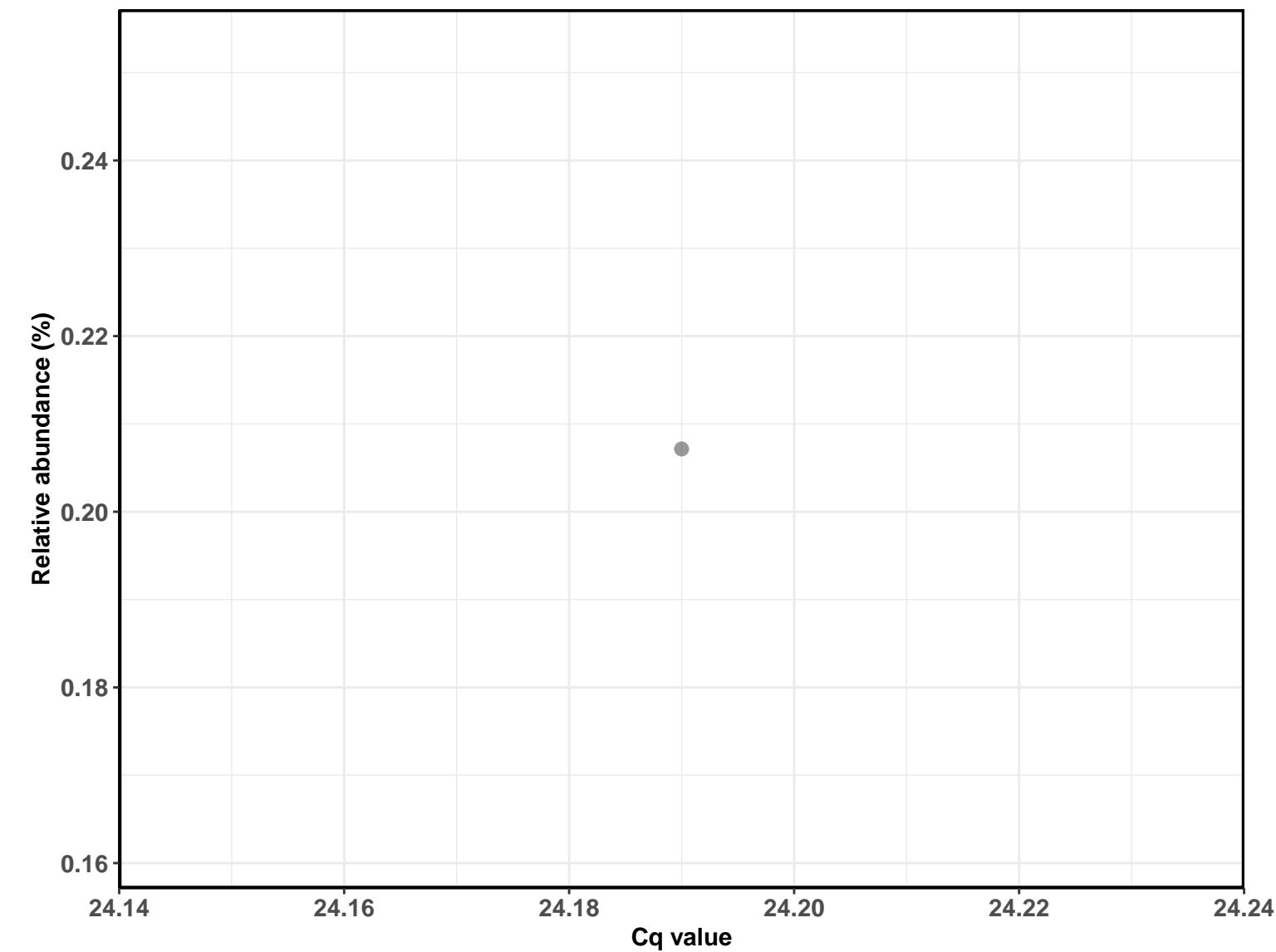


D\_0\_\_Bacteria; D\_1\_\_Firmicutes; D\_2\_\_Bacilli; D\_3\_\_Lactobacillales; D\_4\_\_Lactobacillaceae; D\_5\_\_Lactobacillus; D\_6\_\_Lactobacillus fermentum

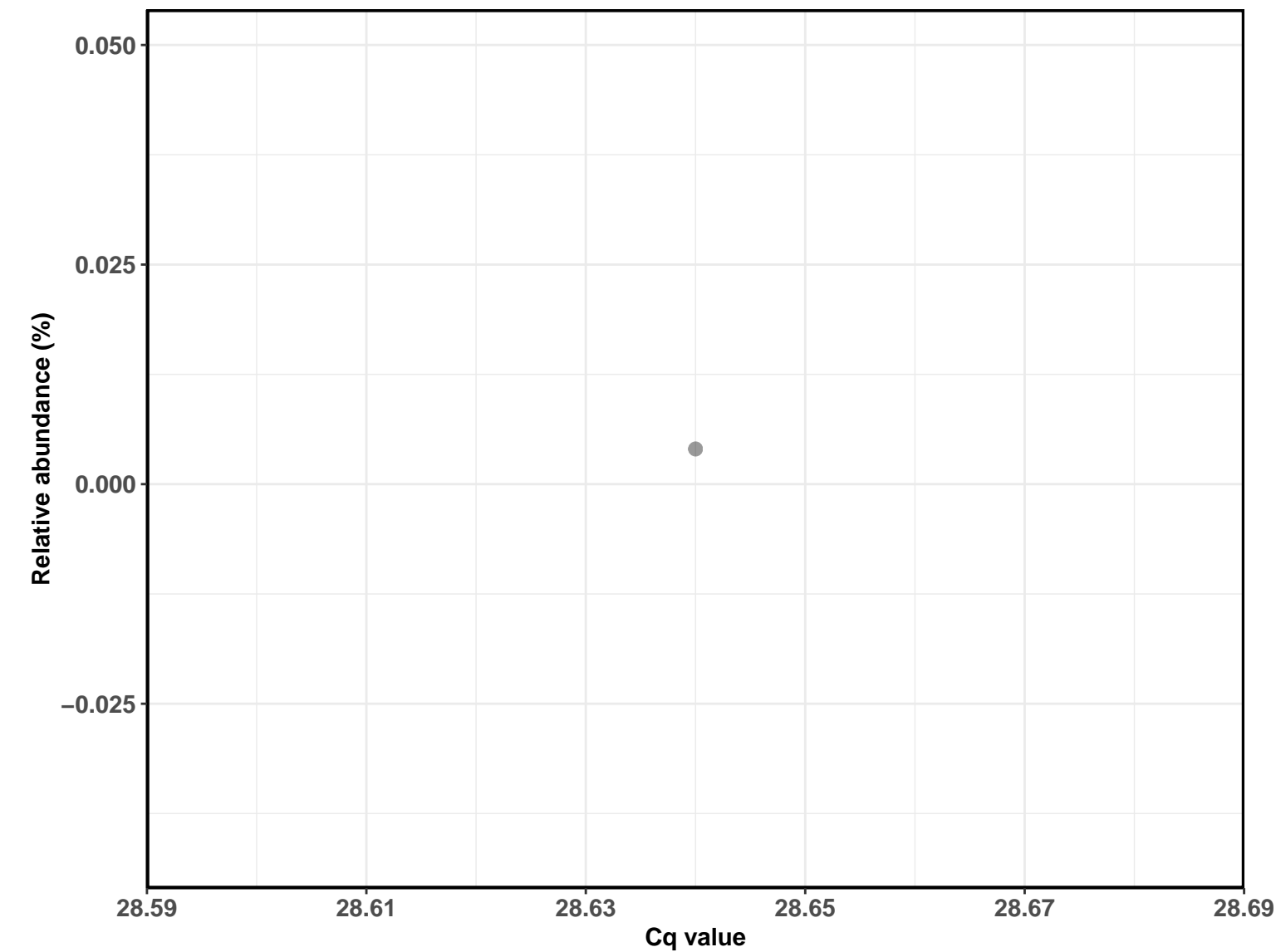
Correlation with all samples



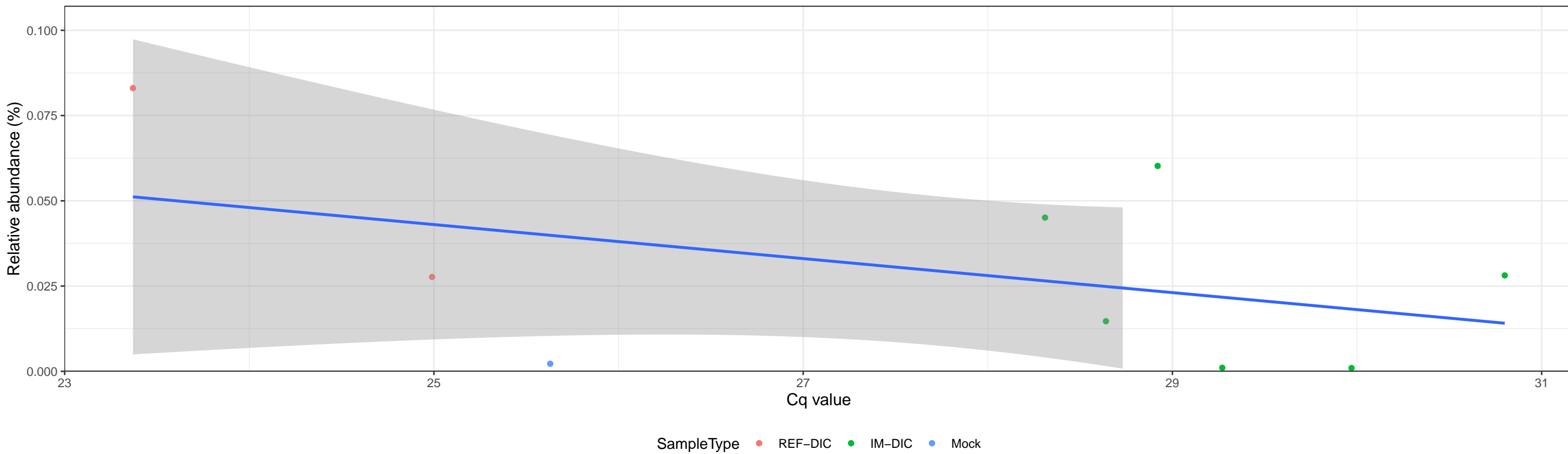
Correlation within the sample type: REF-DIC



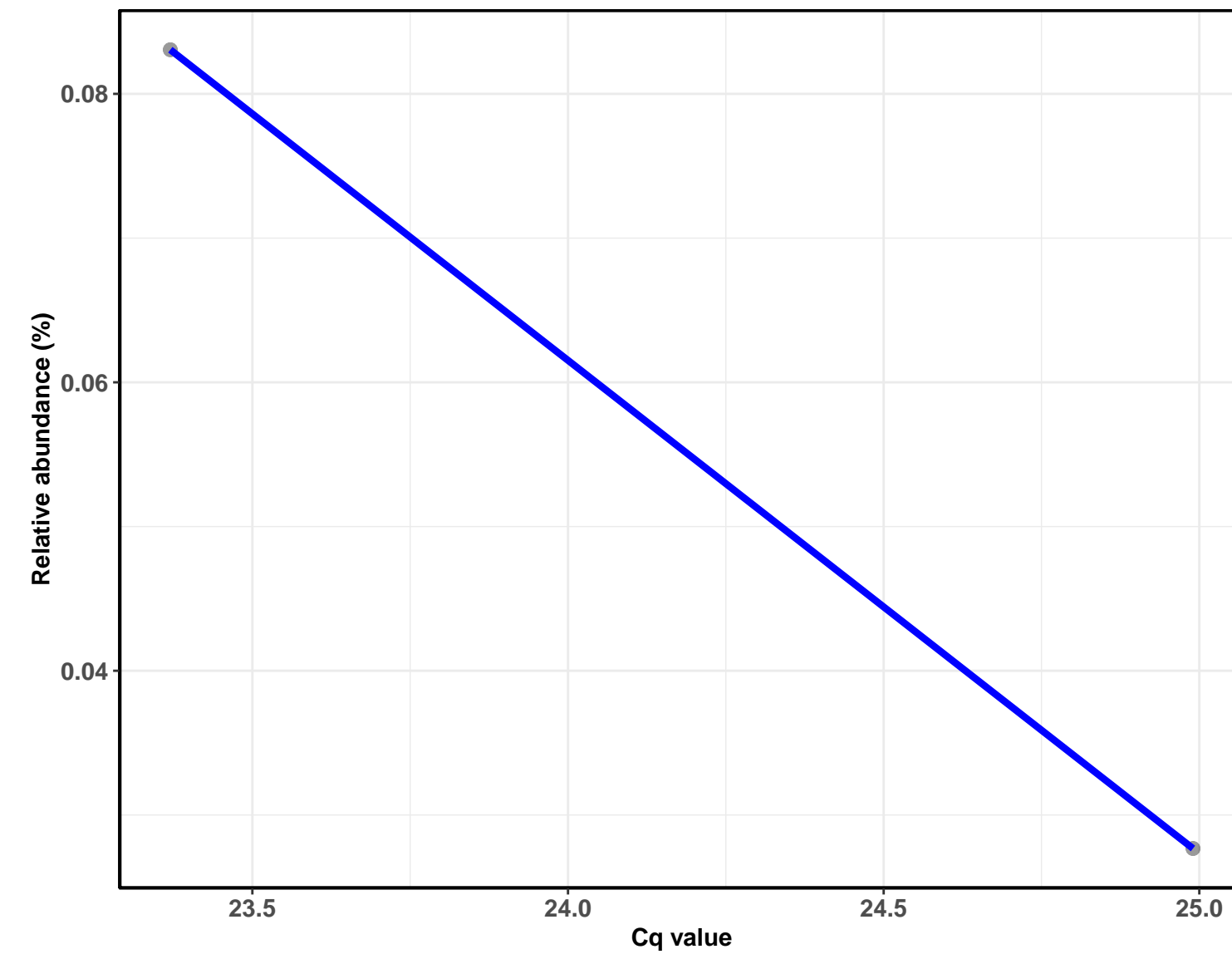
Correlation within the sample type: IM-DIC



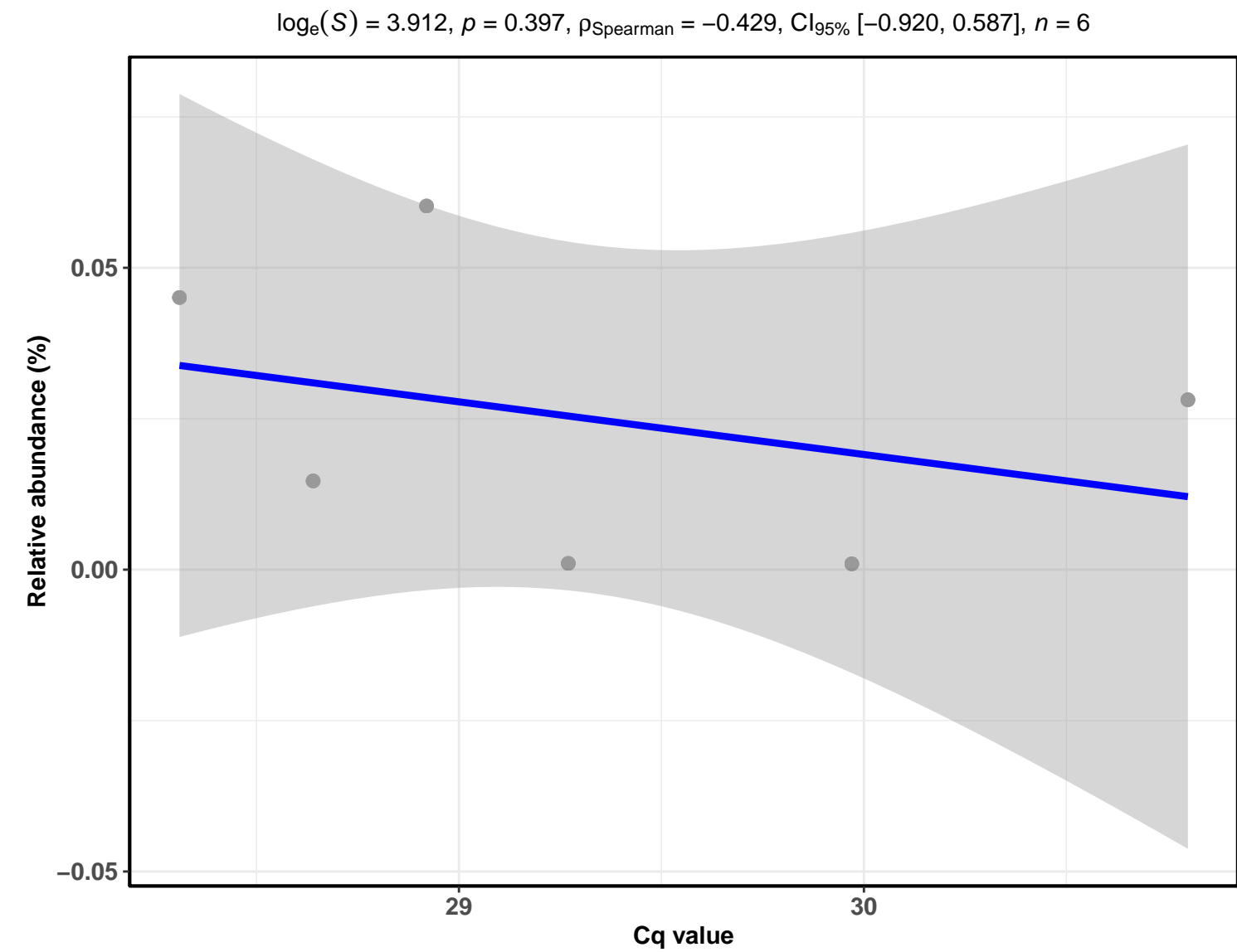
Correlation with all samples



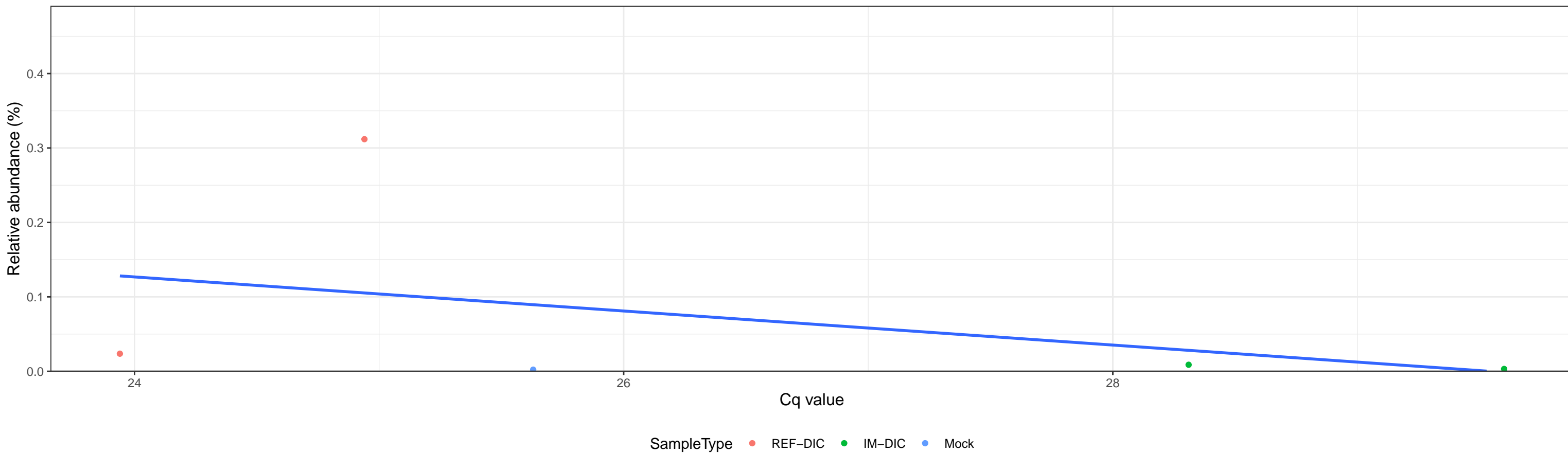
Correlation within the sample type: REF-DIC



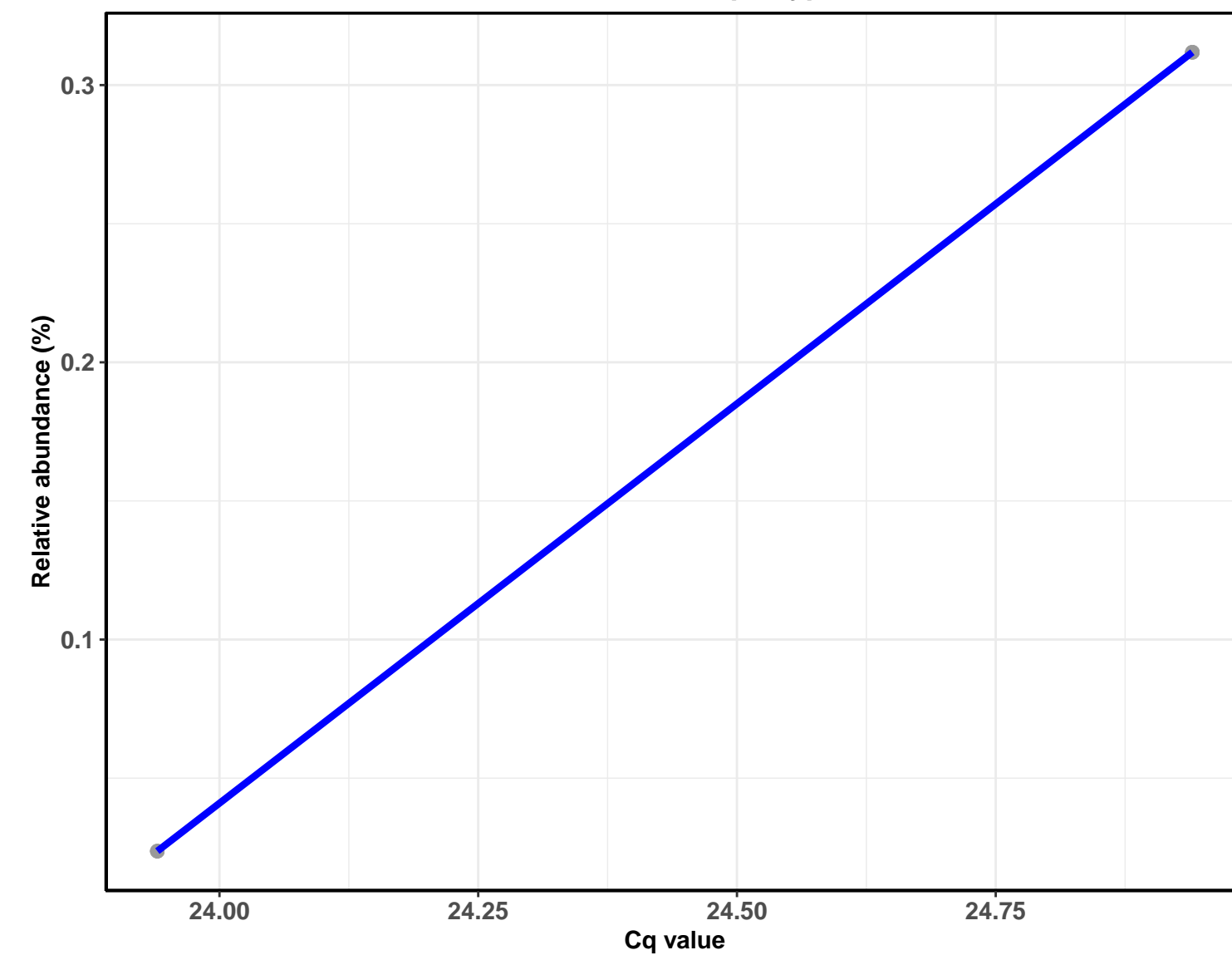
Correlation within the sample type: IM-DIC



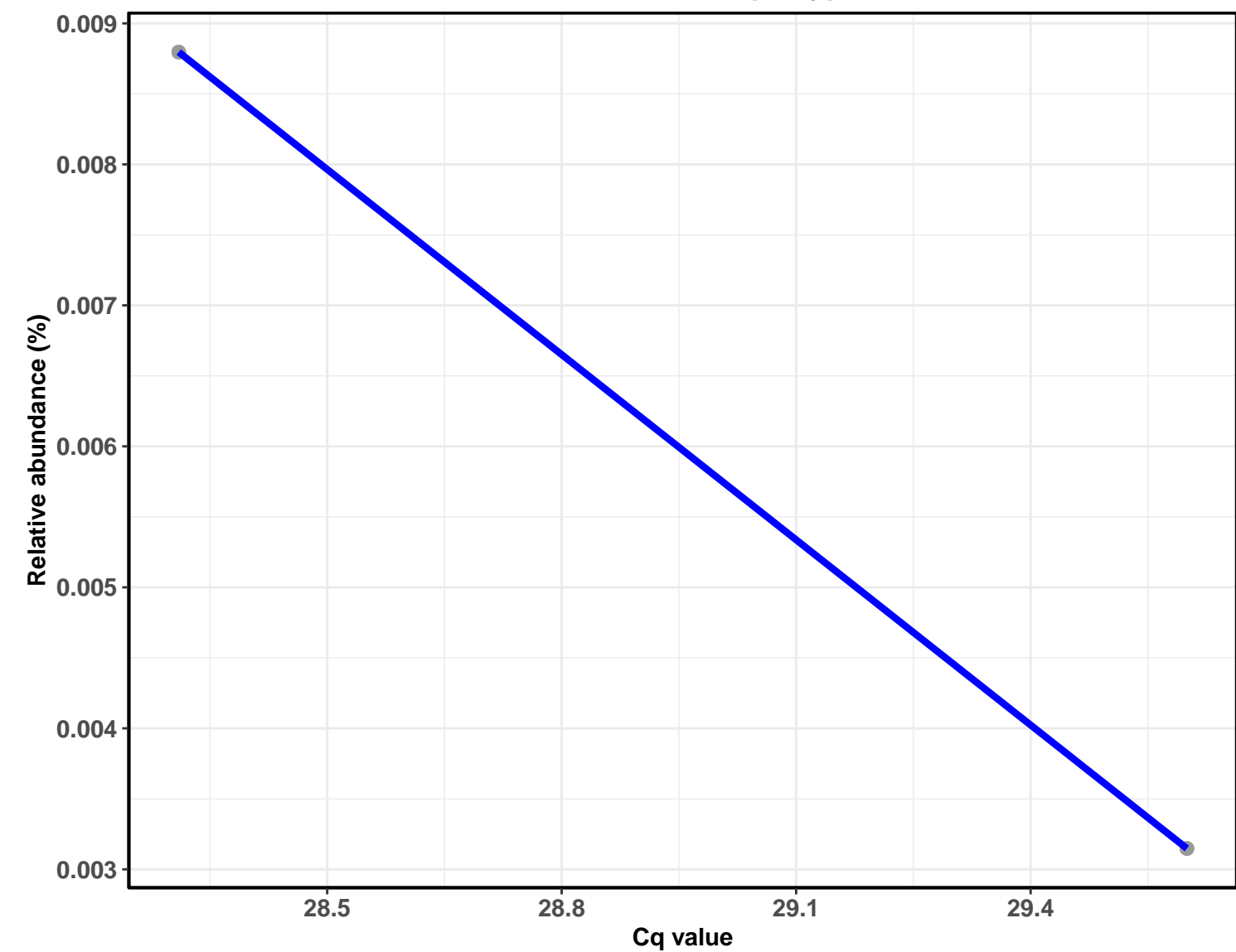
Correlation with all samples



Correlation within the sample type: REF-DIC

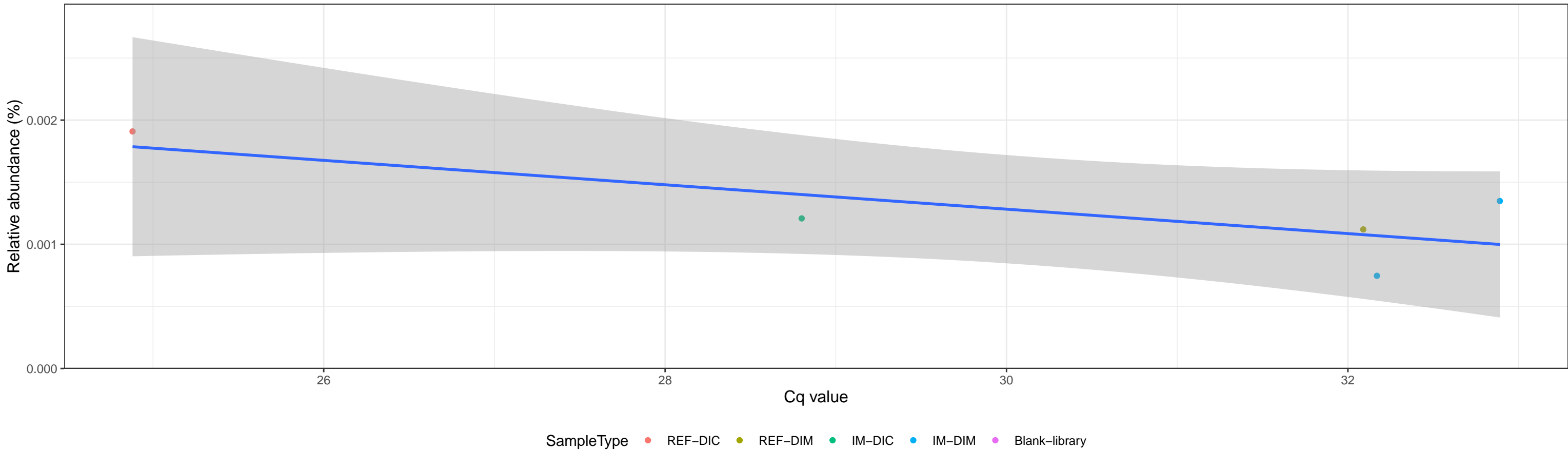


Correlation within the sample type: IM-DIC

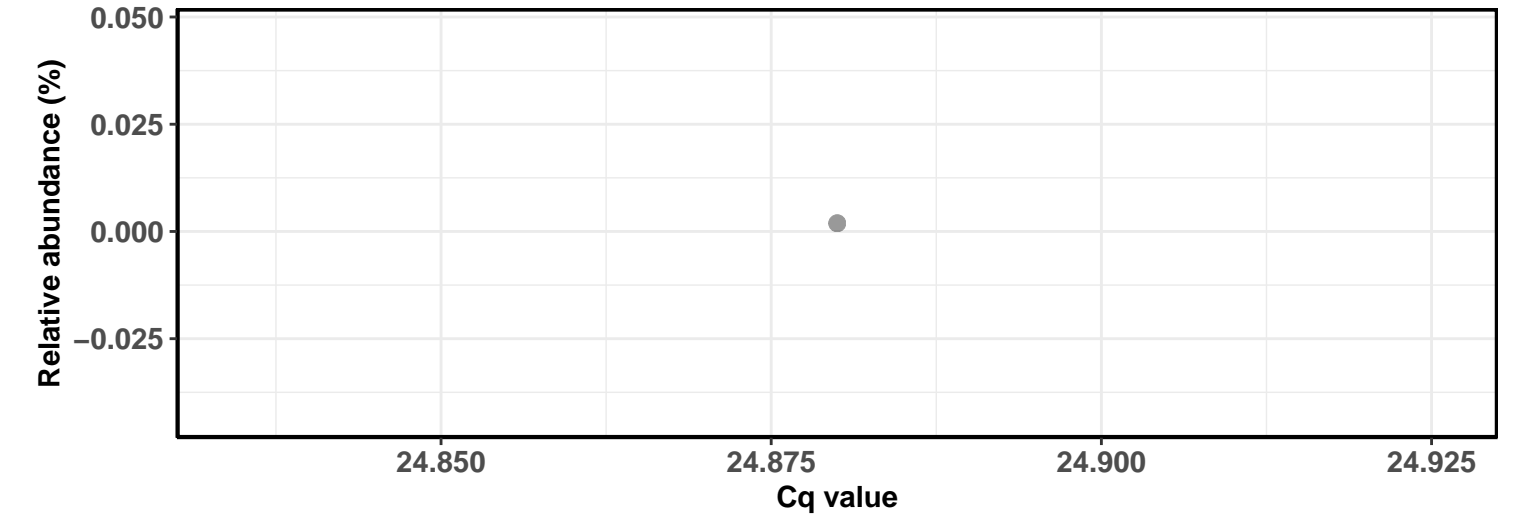


D\_0\_\_Bacteria; D\_1\_\_Proteobacteria; D\_2\_\_Gammaproteobacteria; D\_3\_\_Alteromonadales; D\_4\_\_Marinobacteraceae; D\_5\_\_Marinobacter; D\_6\_\_Marinobacter adhaerens

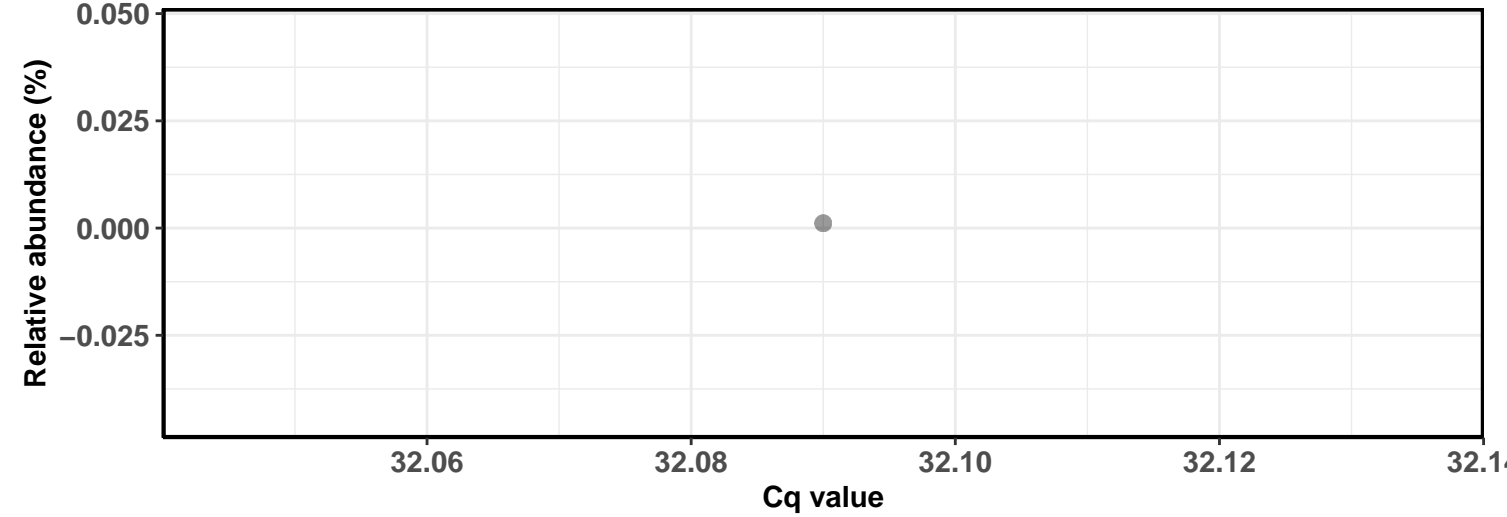
Correlation with all samples



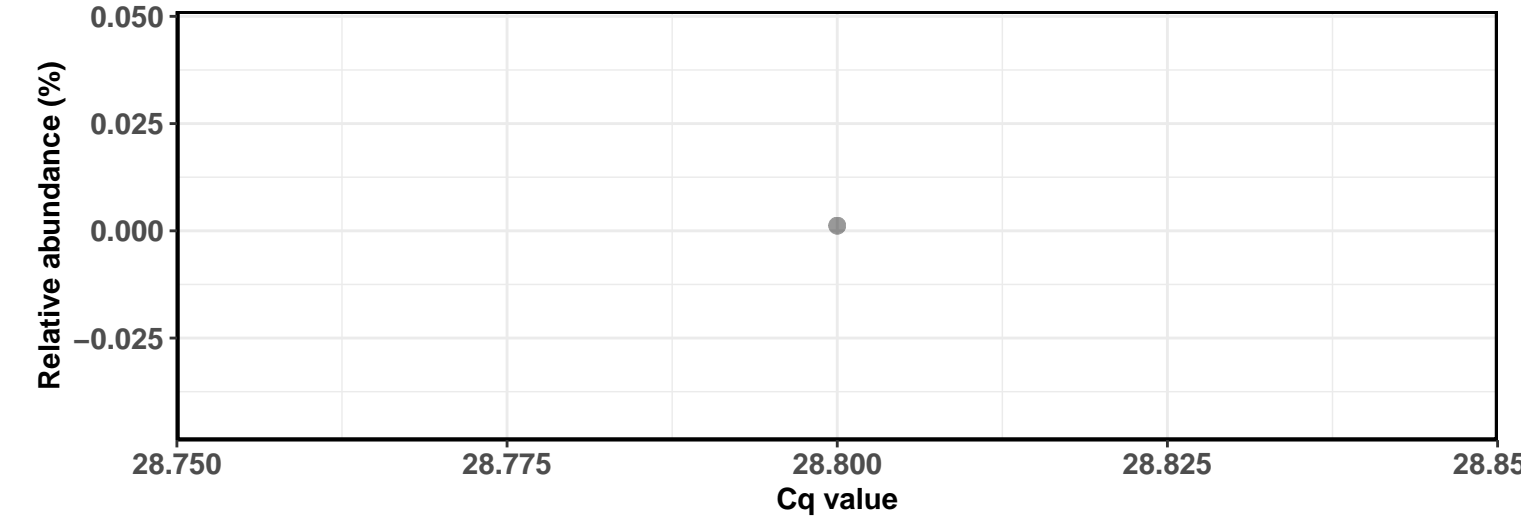
Correlation within the sample type: REF-DIC



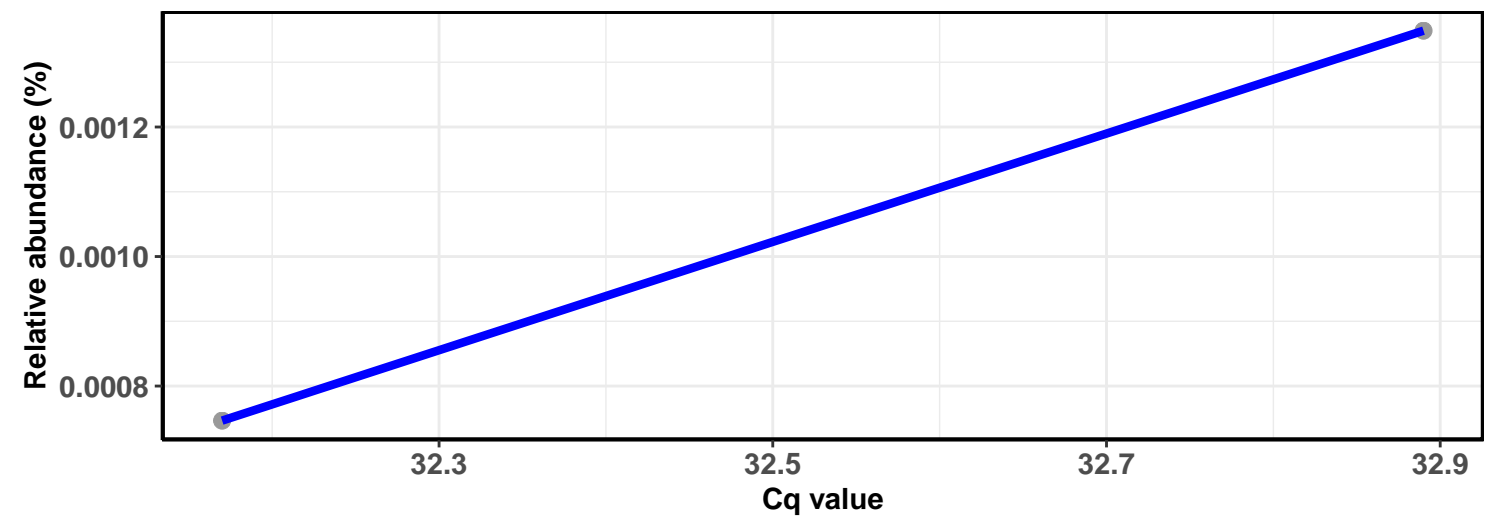
Correlation within the sample type: REF-DIM



Correlation within the sample type: IM-DIC

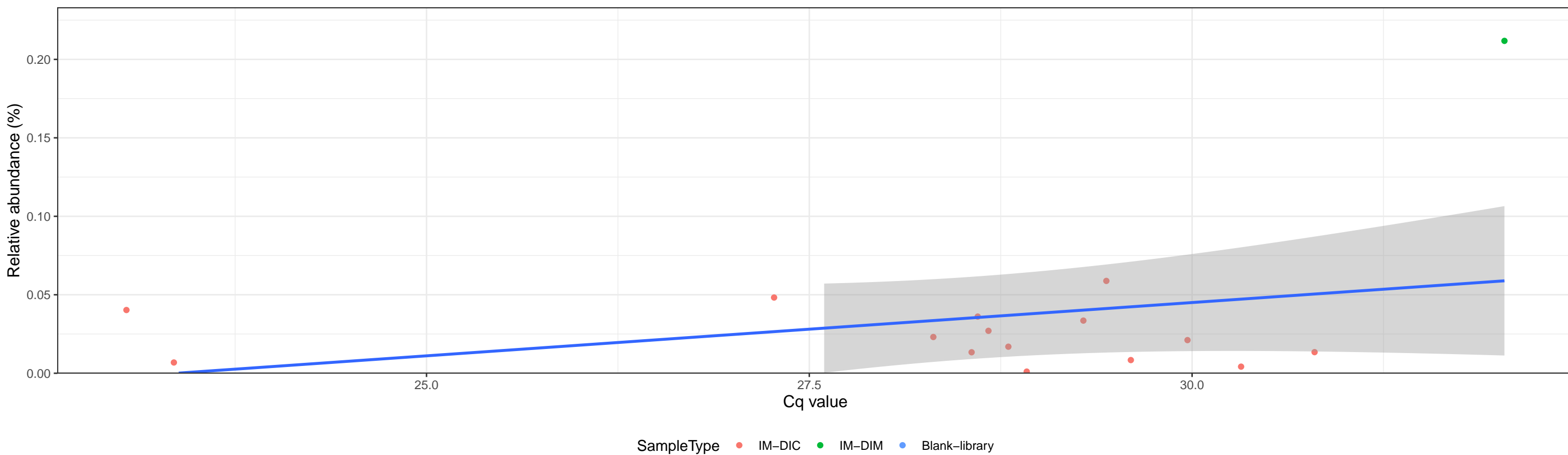


Correlation within the sample type: IM-DIM



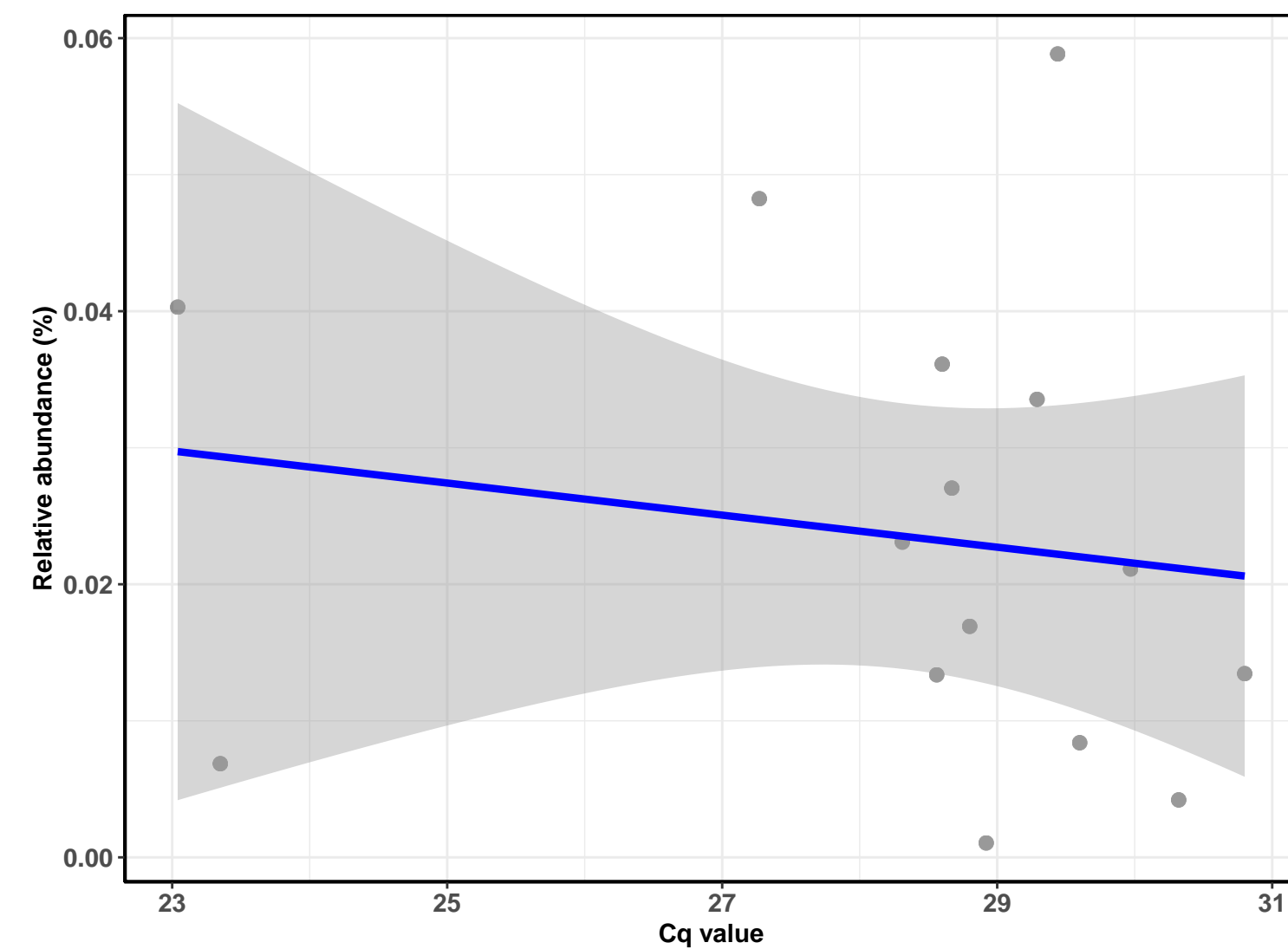


Correlation with all samples

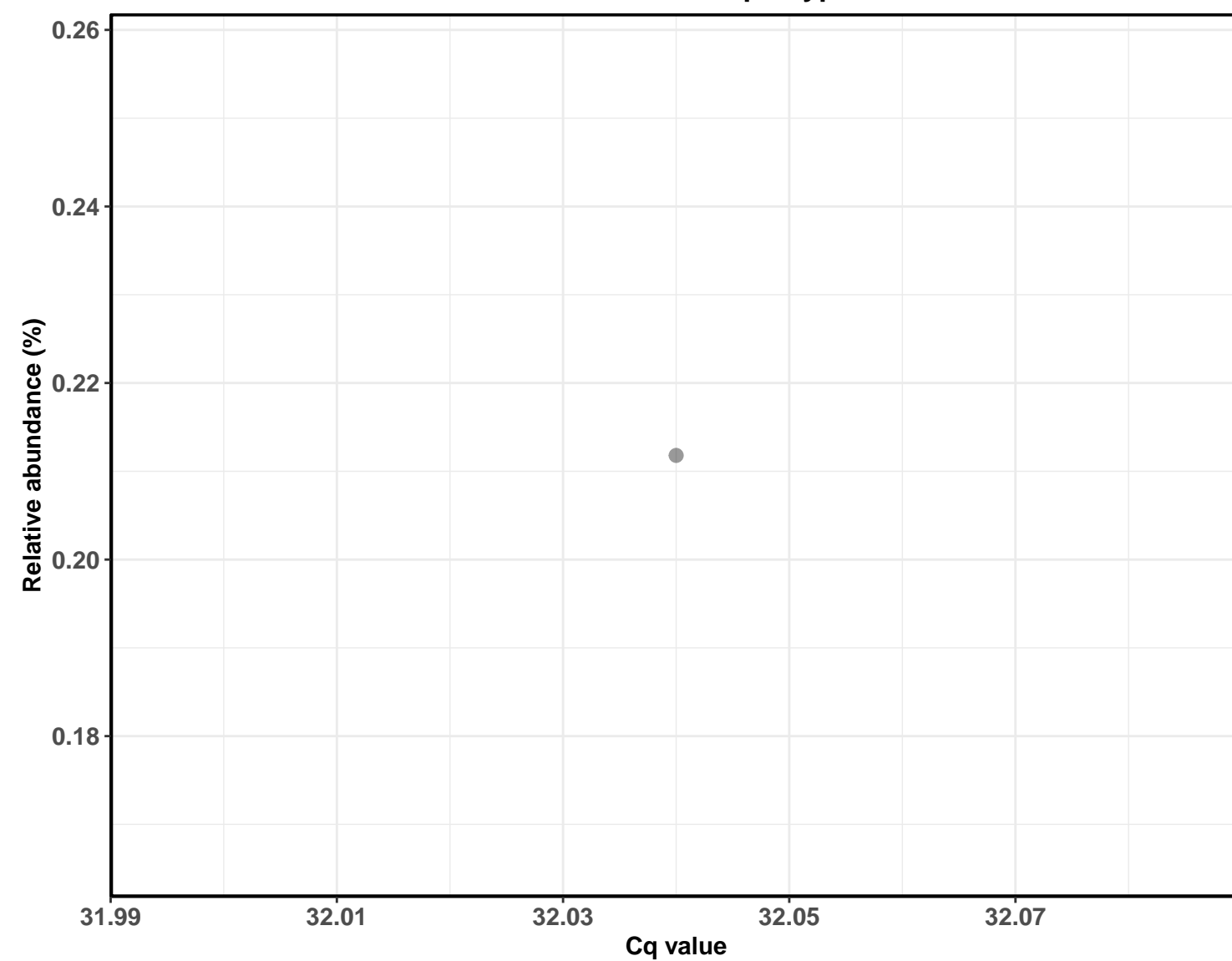


Correlation within the sample type: IM-DIC

$\log_e(S) = 6.596$ ,  $p = 0.265$ ,  $\rho_{\text{Spearman}} = -0.307$ ,  $CI_{95\%} [-0.708, 0.243]$ ,  $n = 15$

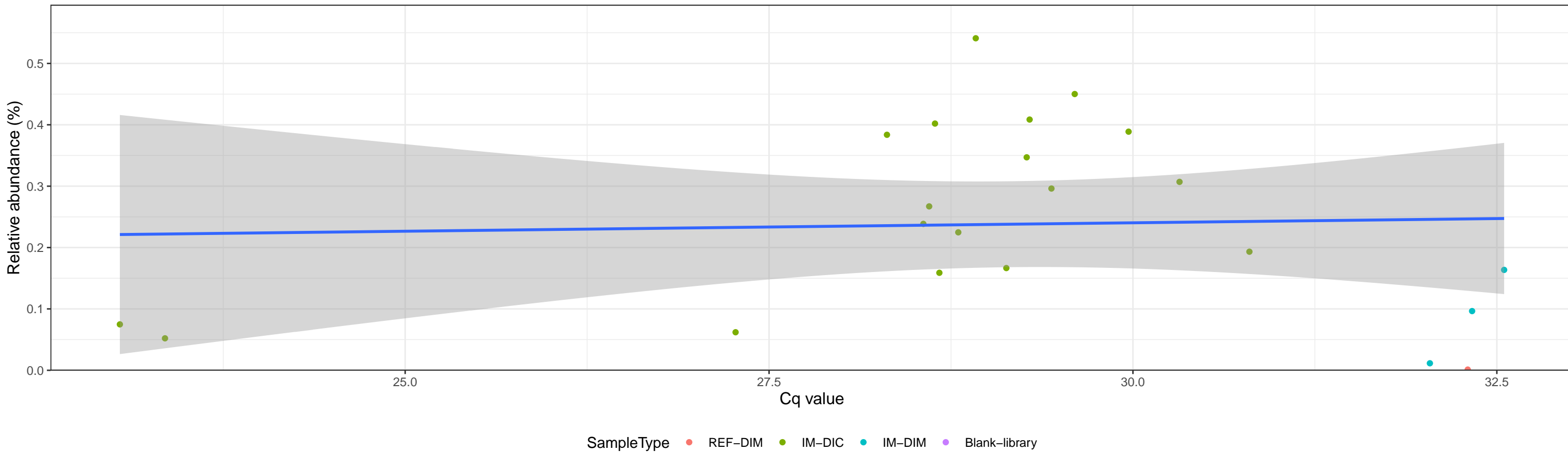


Correlation within the sample type: IM-DIM

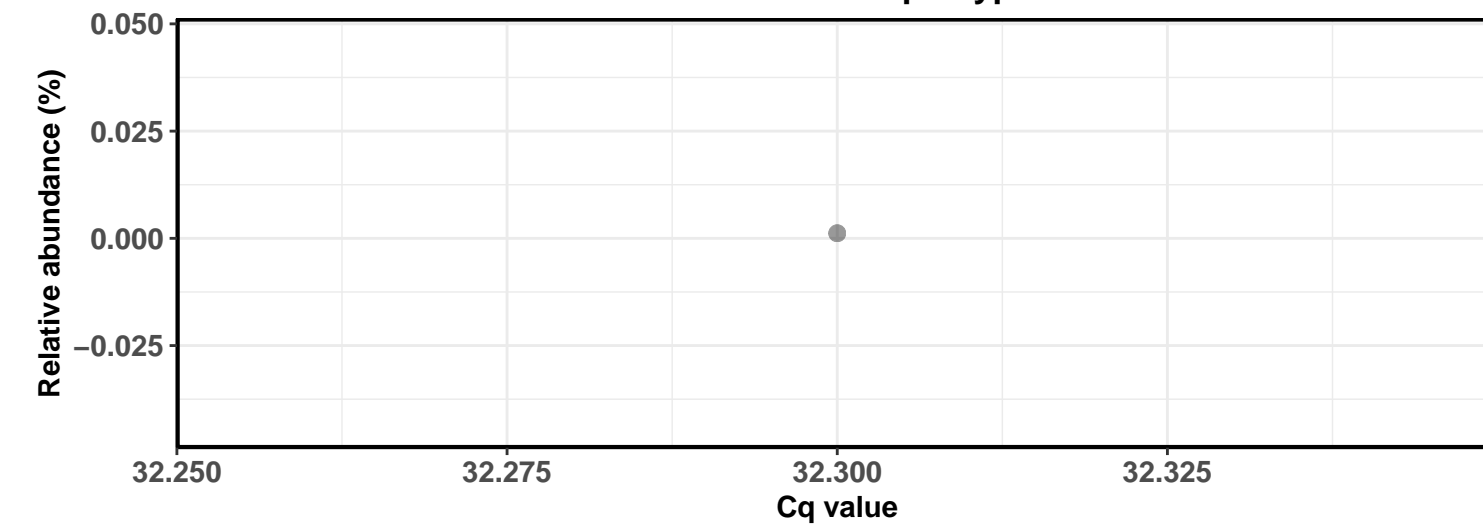


D\_0\_\_Bacteria; D\_1\_\_Actinobacteria; D\_2\_\_Actinobacteria; D\_3\_\_Micrococcales; D\_4\_\_Brevibacteriaceae; D\_5\_\_Brevibacterium; D\_6\_\_Brevibacterium album

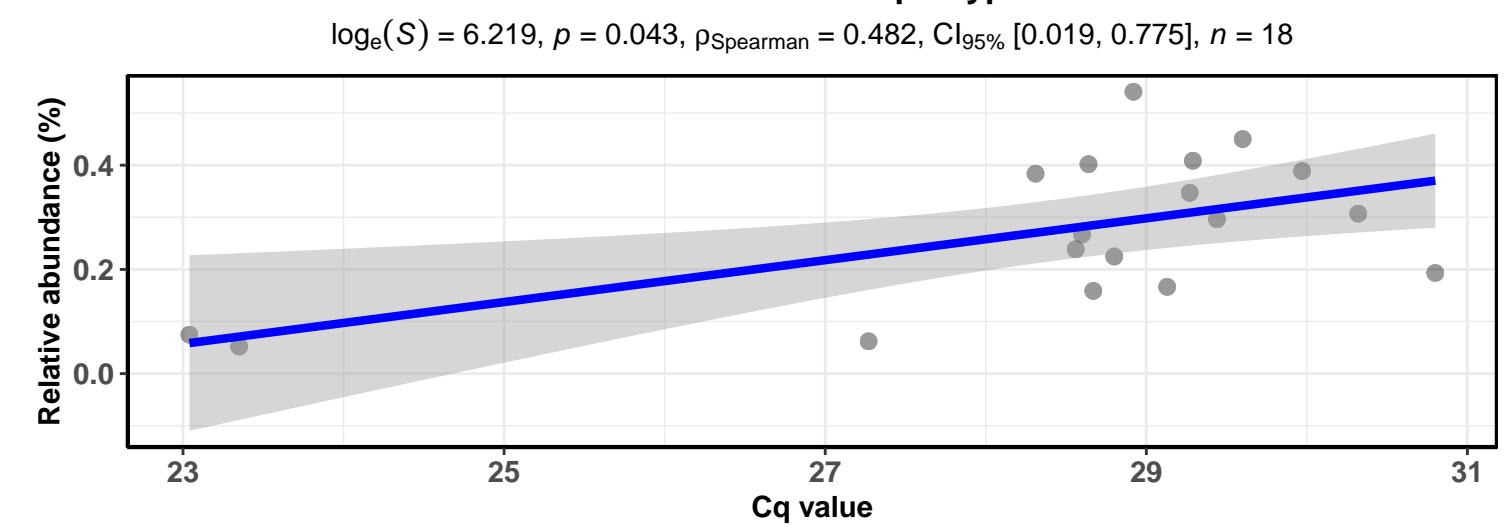
Correlation with all samples



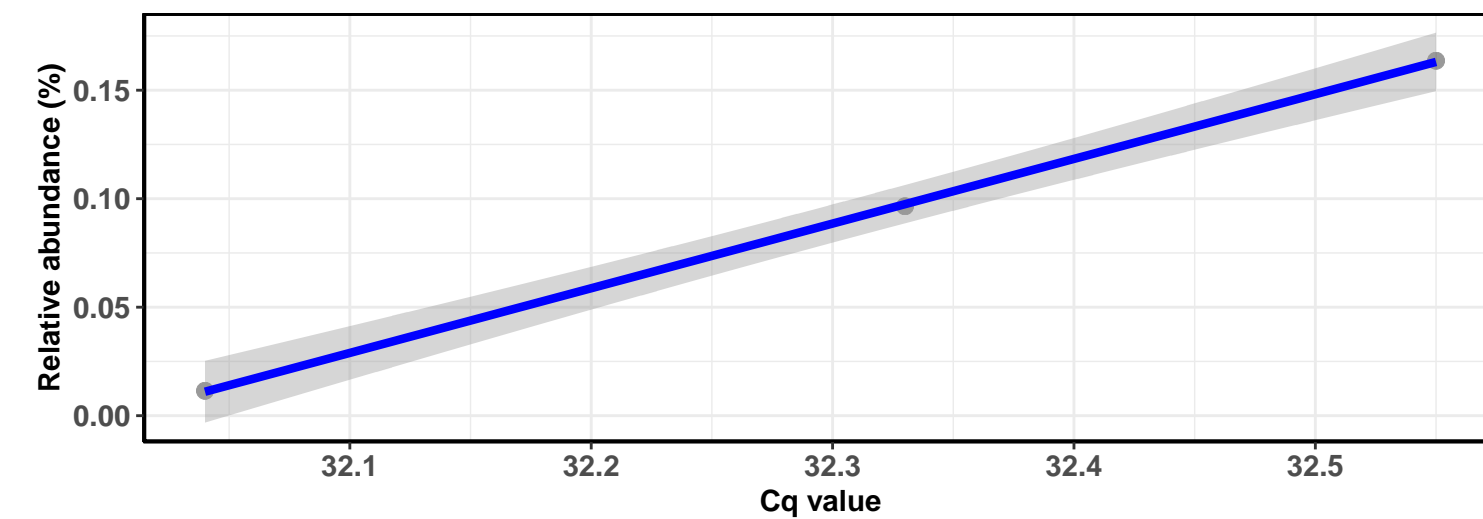
Correlation within the sample type: REF-DIM



Correlation within the sample type: IM-DIC

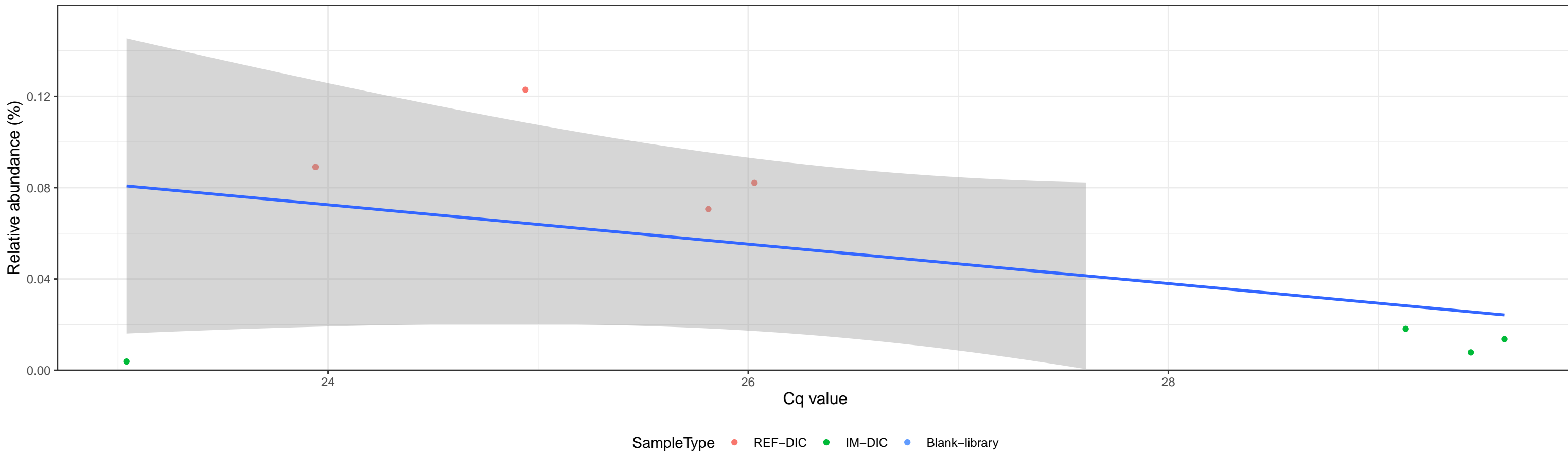


Correlation within the sample type: IM-DIM

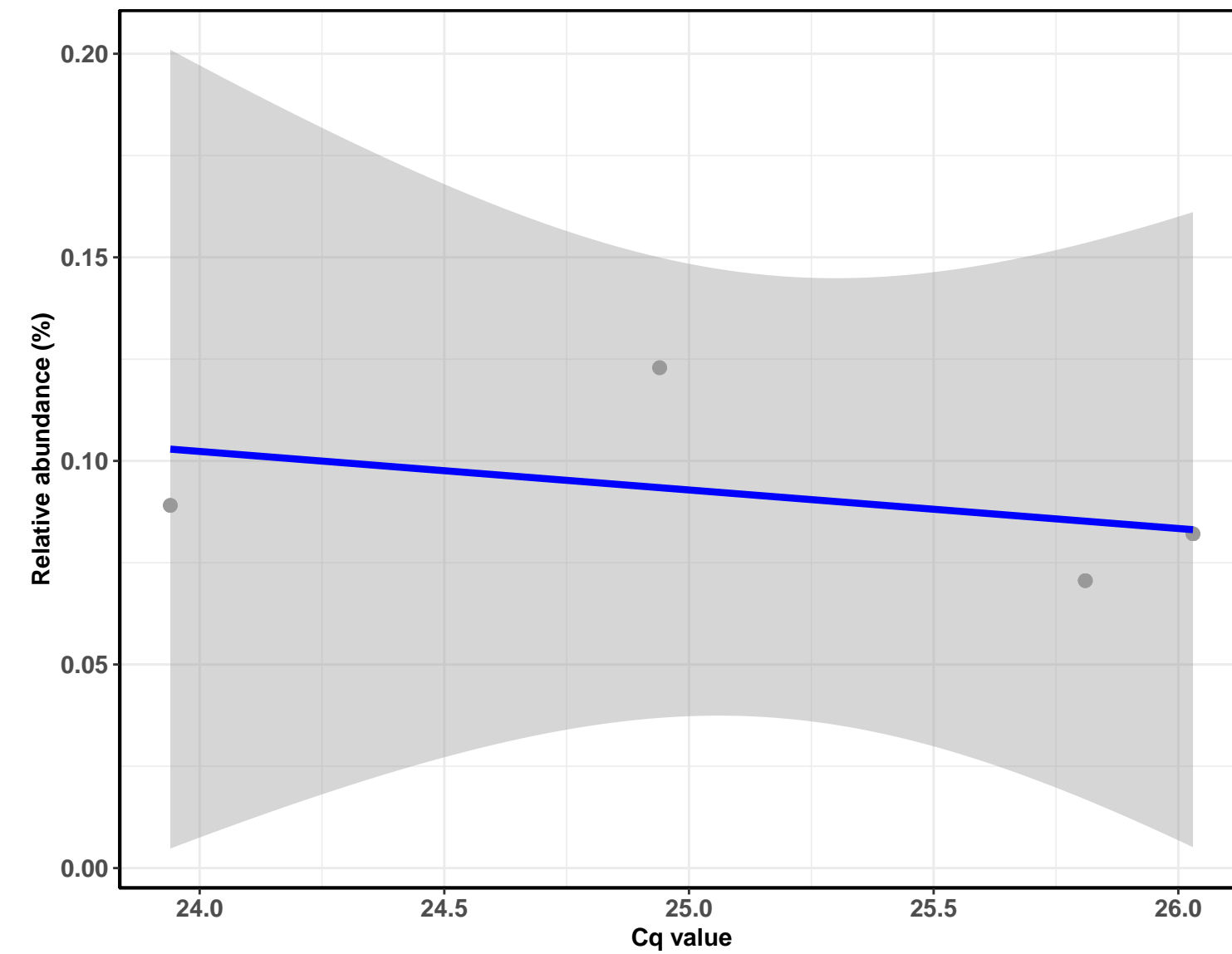


D\_0\_\_Bacteria; D\_1\_\_Firmicutes; D\_2\_\_Bacilli; D\_3\_\_Bacillales; D\_4\_\_Bacillaceae; D\_5\_\_Bacillus

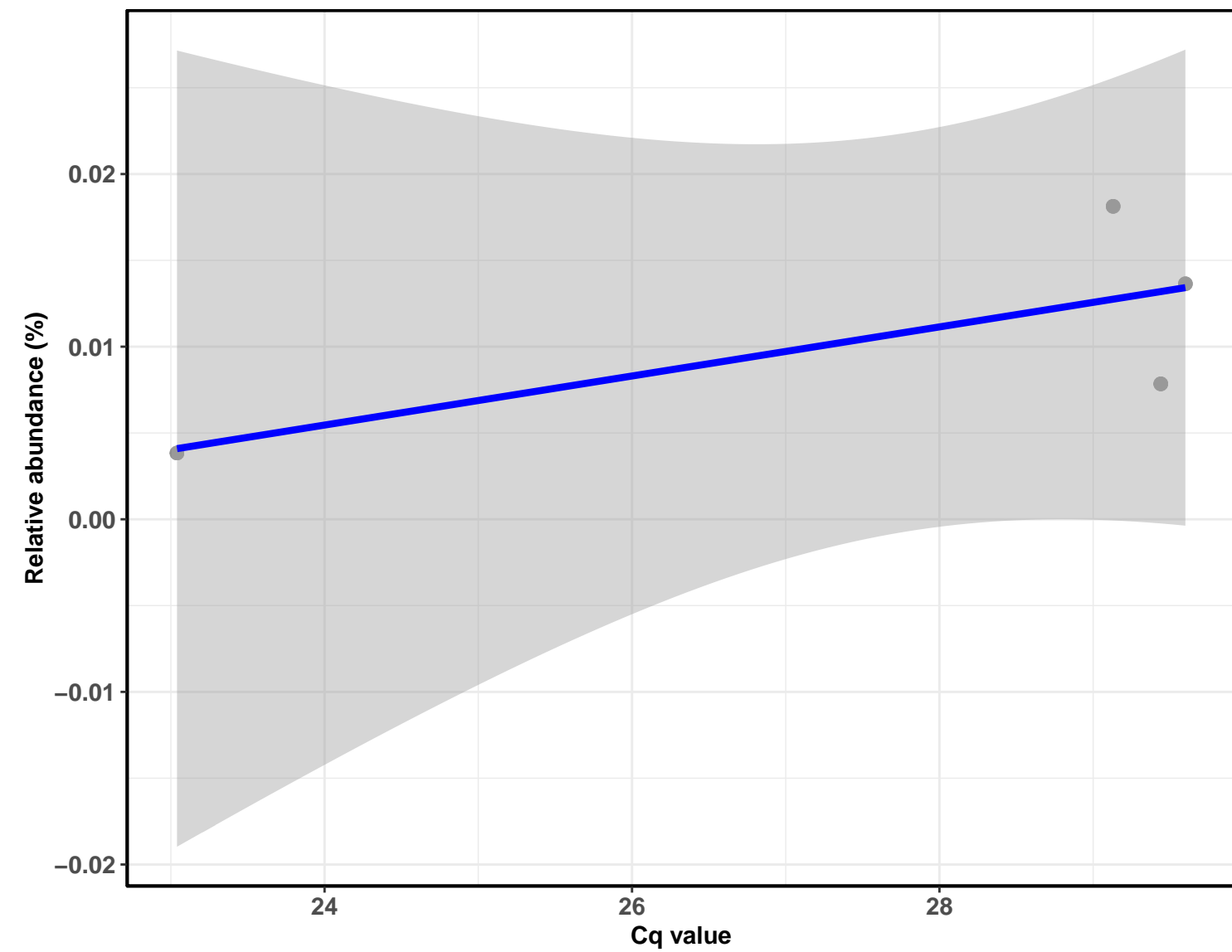
Correlation with all samples



Correlation within the sample type: REF-DIC

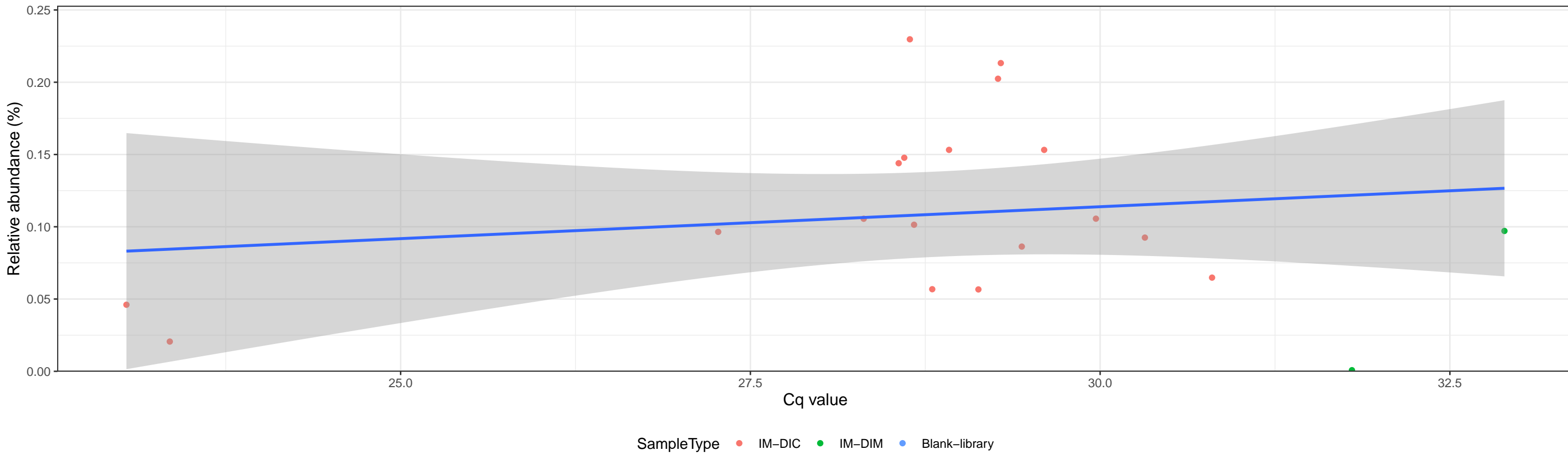


Correlation within the sample type: IM-DIC



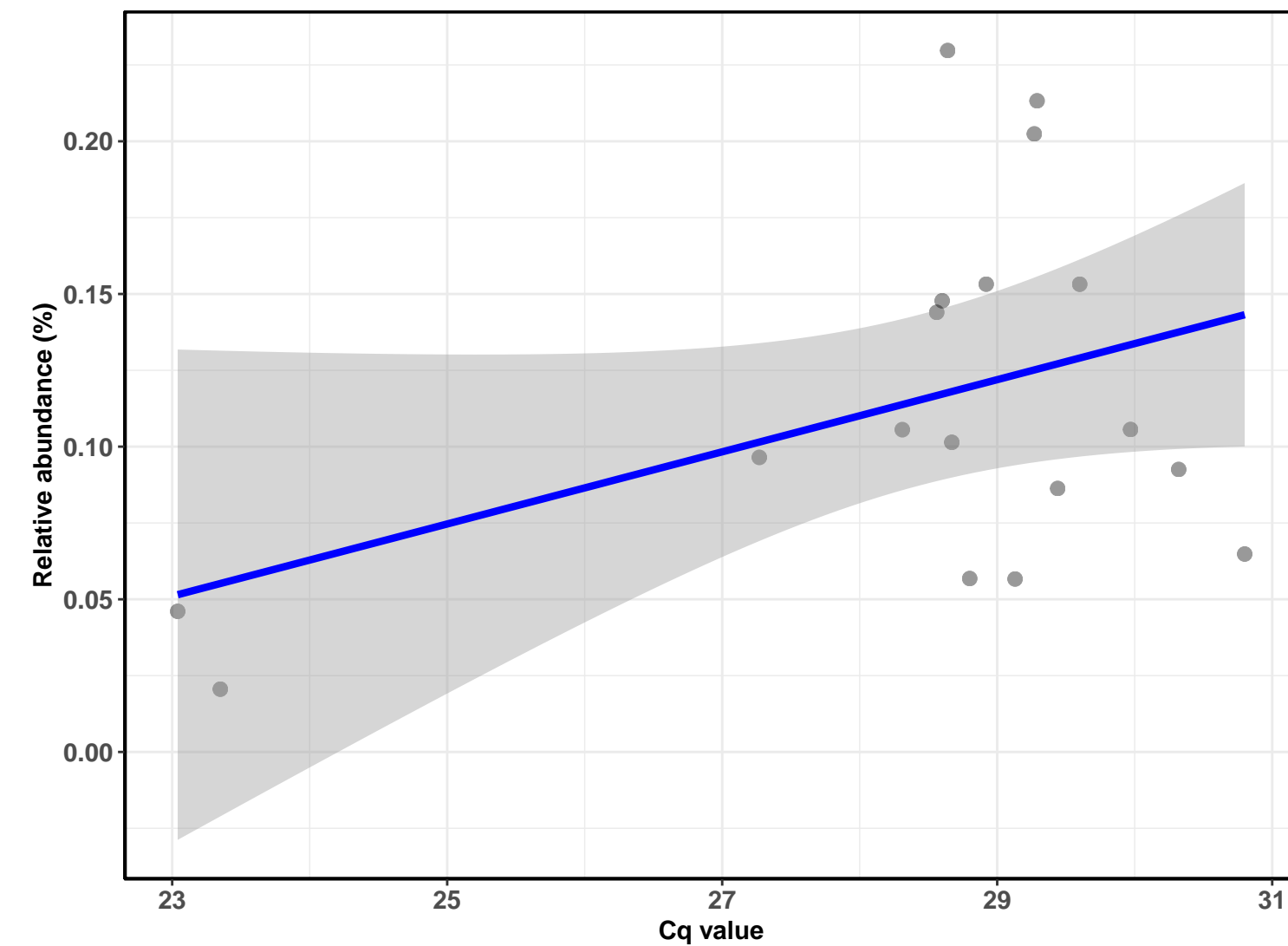
D\_0\_\_Bacteria; D\_1\_\_Actinobacteria; D\_2\_\_Actinobacteria; D\_3\_\_Micrococcales; D\_4\_\_Brevibacteriaceae; D\_5\_\_Brevibacterium

Correlation with all samples

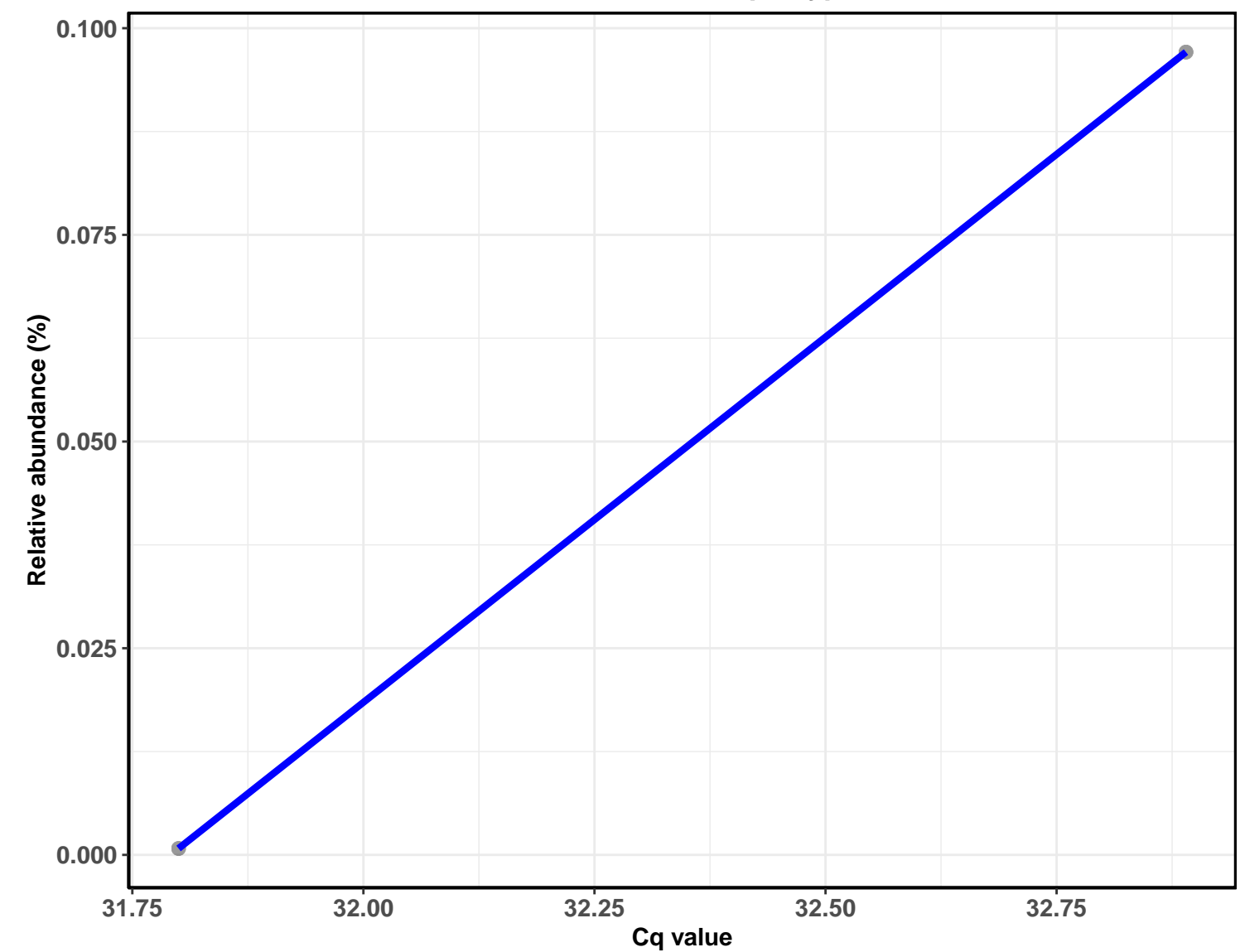


Correlation within the sample type: IM-DIC

$\log_e(S) = 6.669$ ,  $p = 0.458$ ,  $\rho_{\text{Spearman}} = 0.187$ ,  $CI_{95\%} [-0.307, 0.601]$ ,  $n = 18$

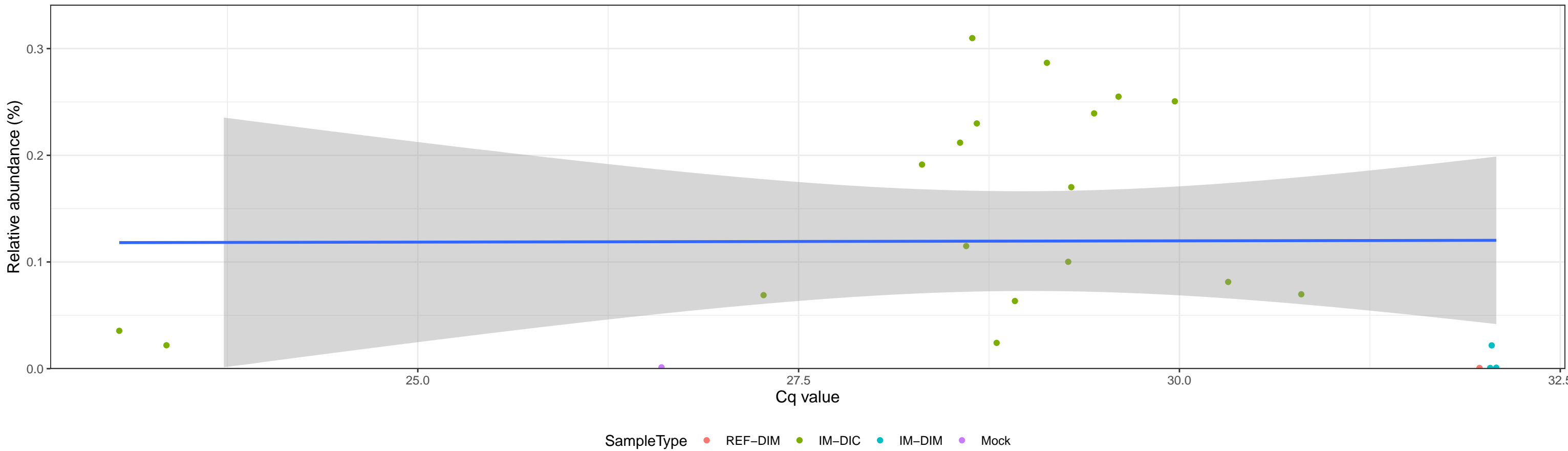


Correlation within the sample type: IM-DIM

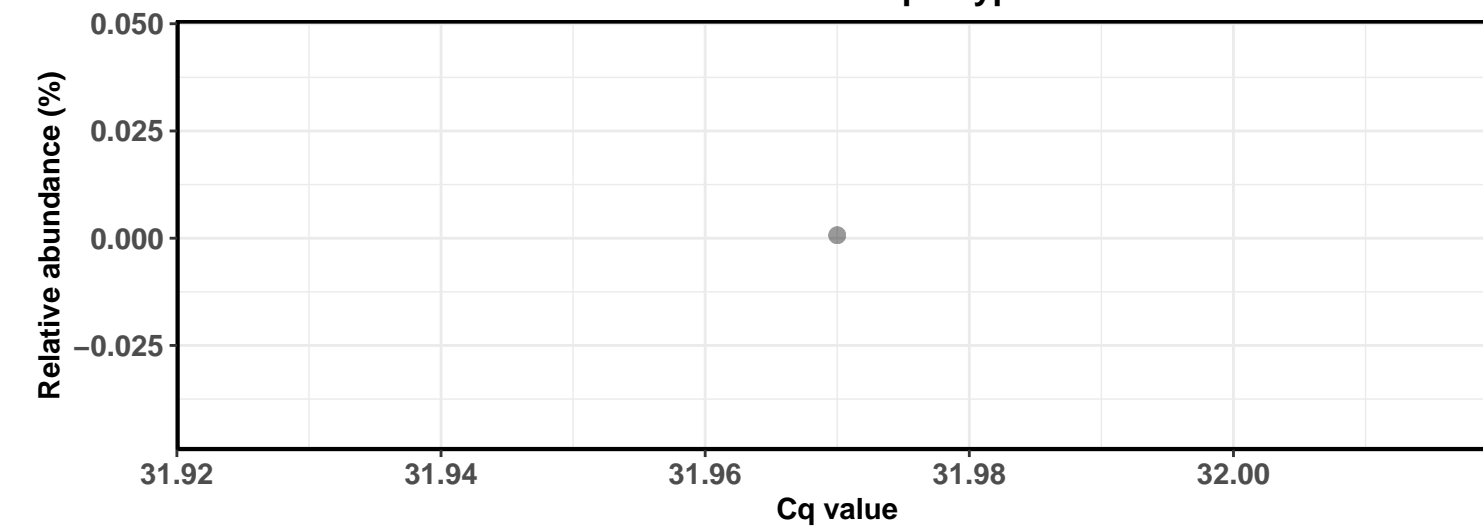


D\_0\_\_Bacteria; D\_1\_\_Bacteroidetes; D\_2\_\_Bacteroidia; D\_3\_\_Flavobacteriales; D\_4\_\_Flavobacteriaceae; D\_5\_\_Flavobacterium

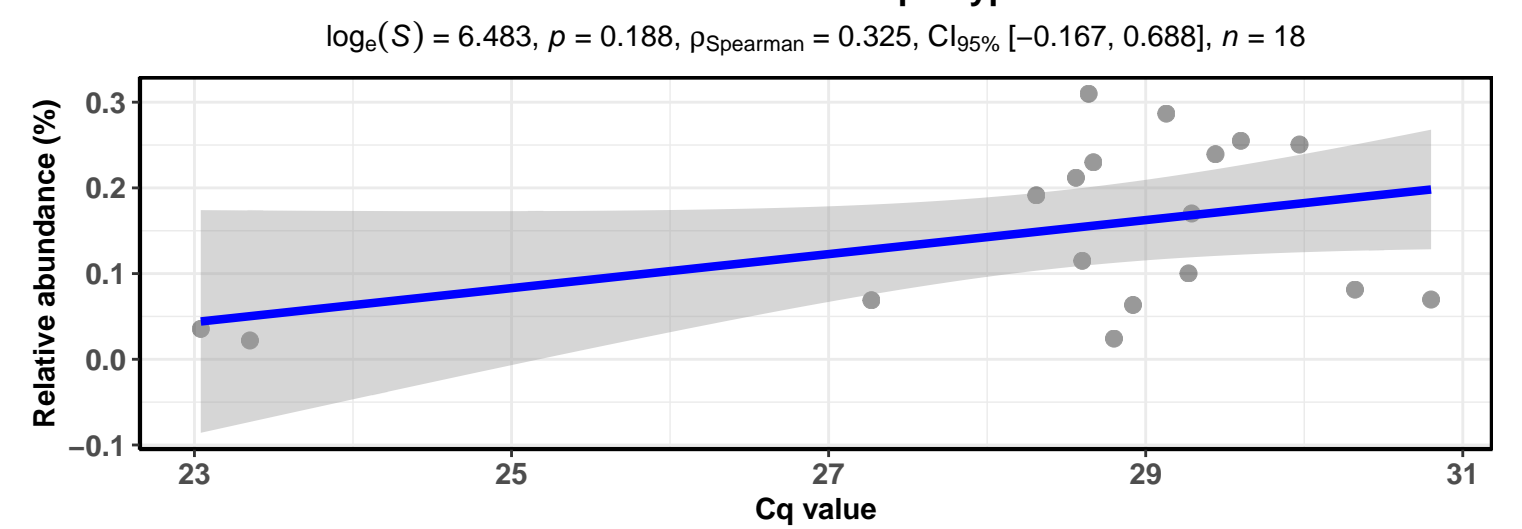
Correlation with all samples



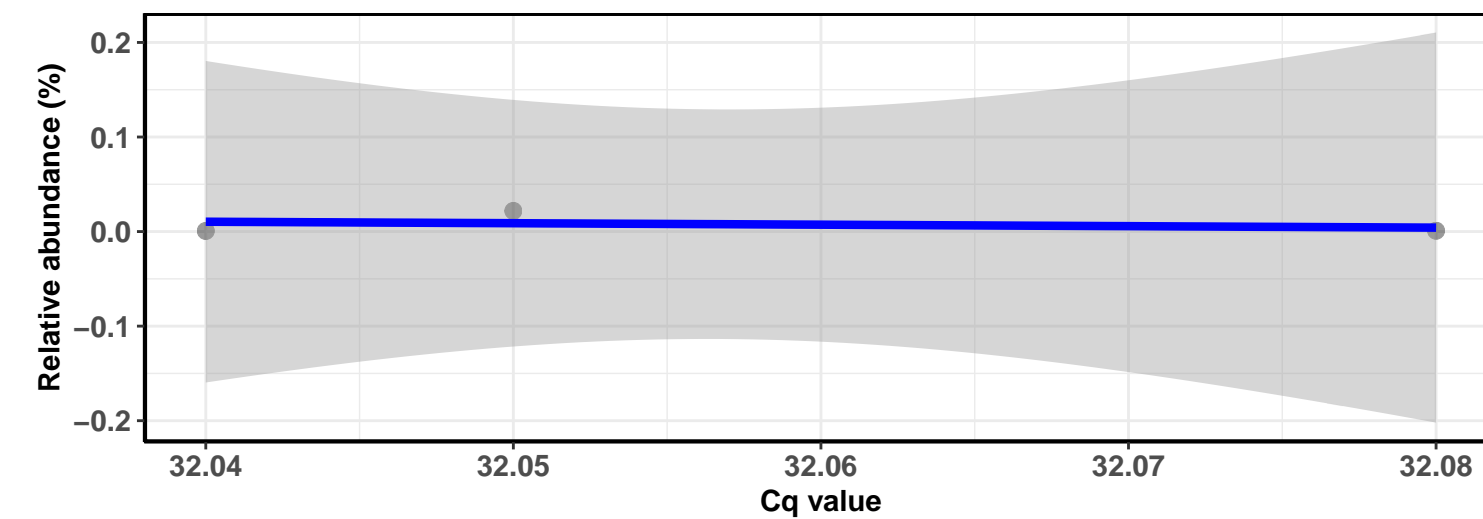
Correlation within the sample type: REF-DIM



Correlation within the sample type: IM-DIC

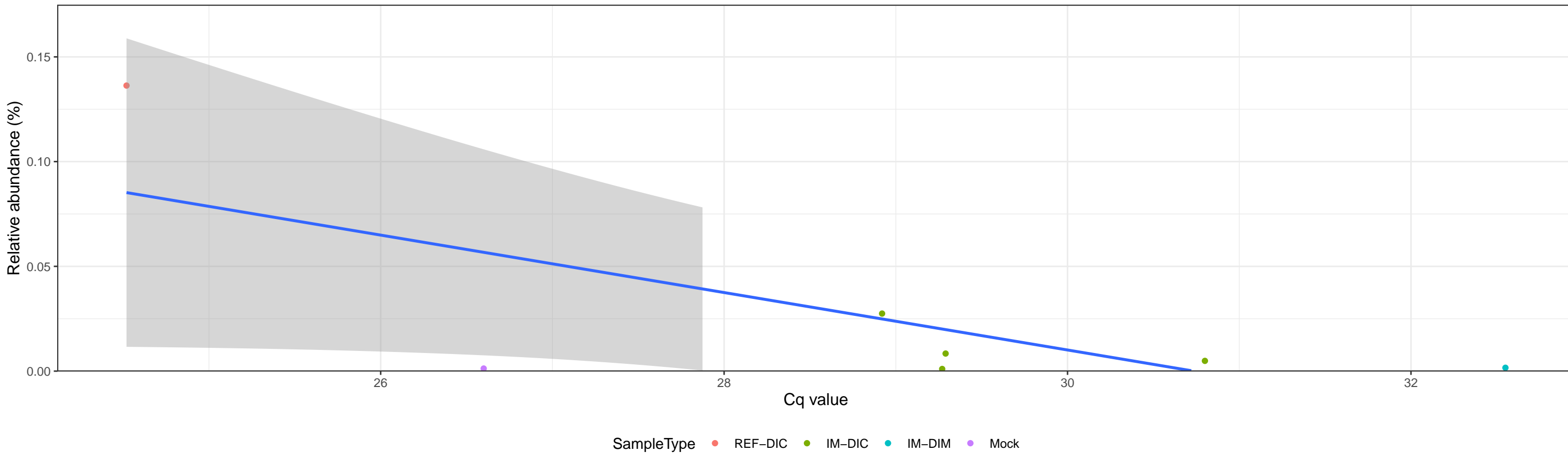


Correlation within the sample type: IM-DIM

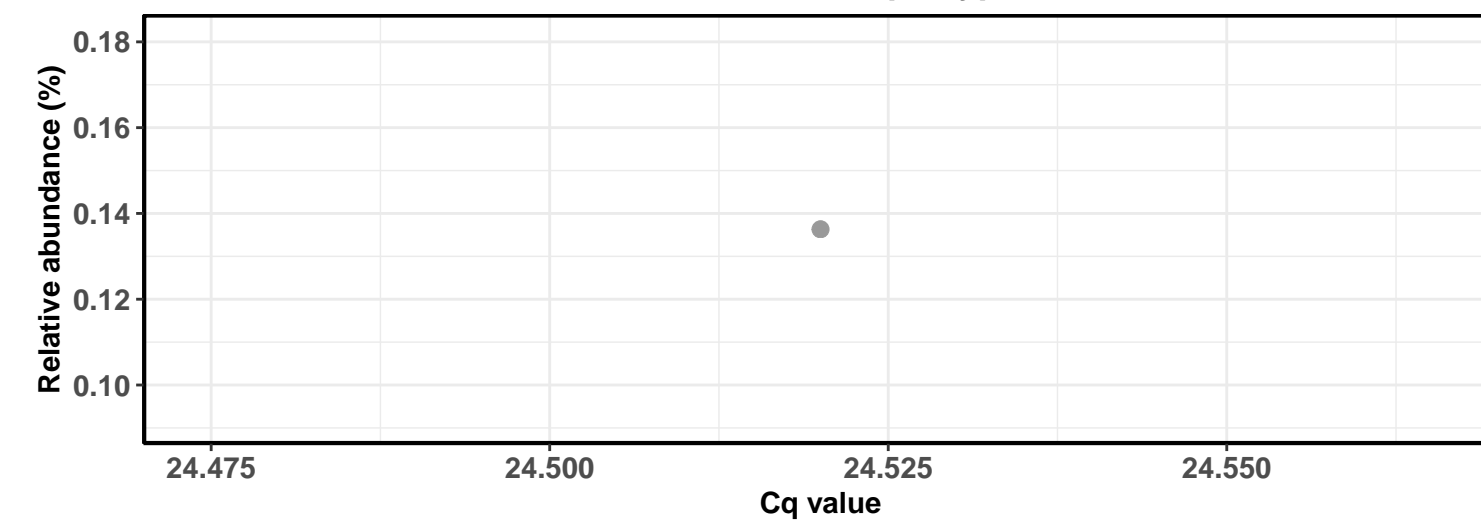


D\_0\_\_Bacteria; D\_1\_\_Firmicutes; D\_2\_\_Bacilli; D\_3\_\_Lactobacillales; D\_4\_\_Lactobacillaceae; D\_5\_\_Lactobacillus; D\_6\_\_Lactobacillus fermentum

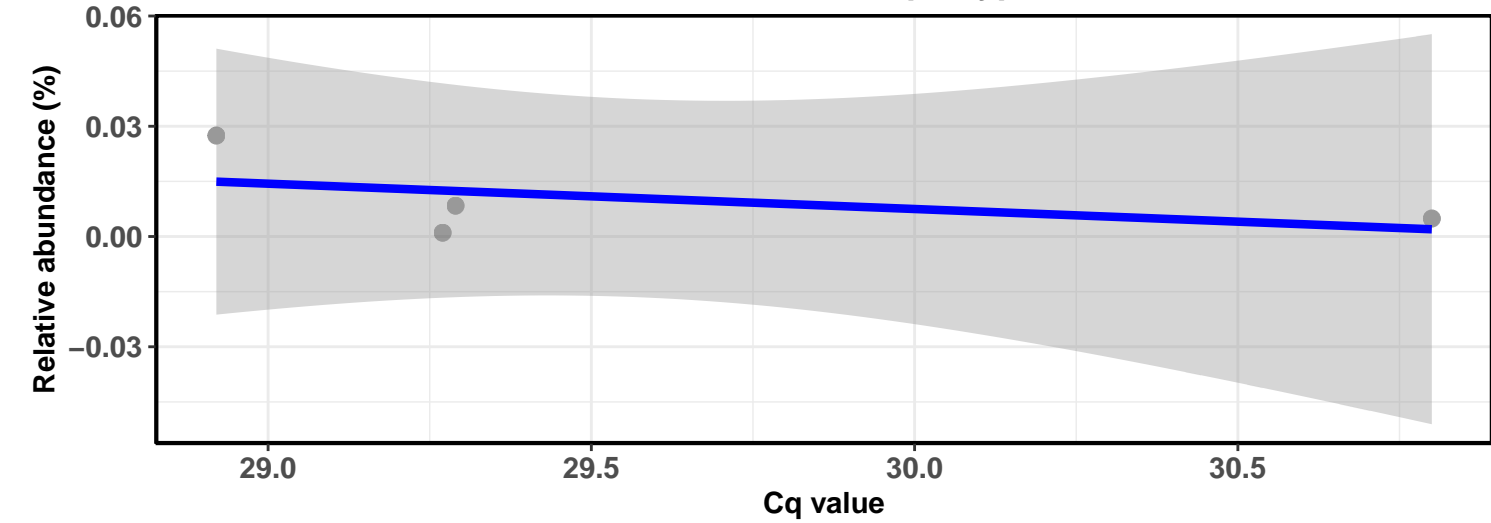
Correlation with all samples



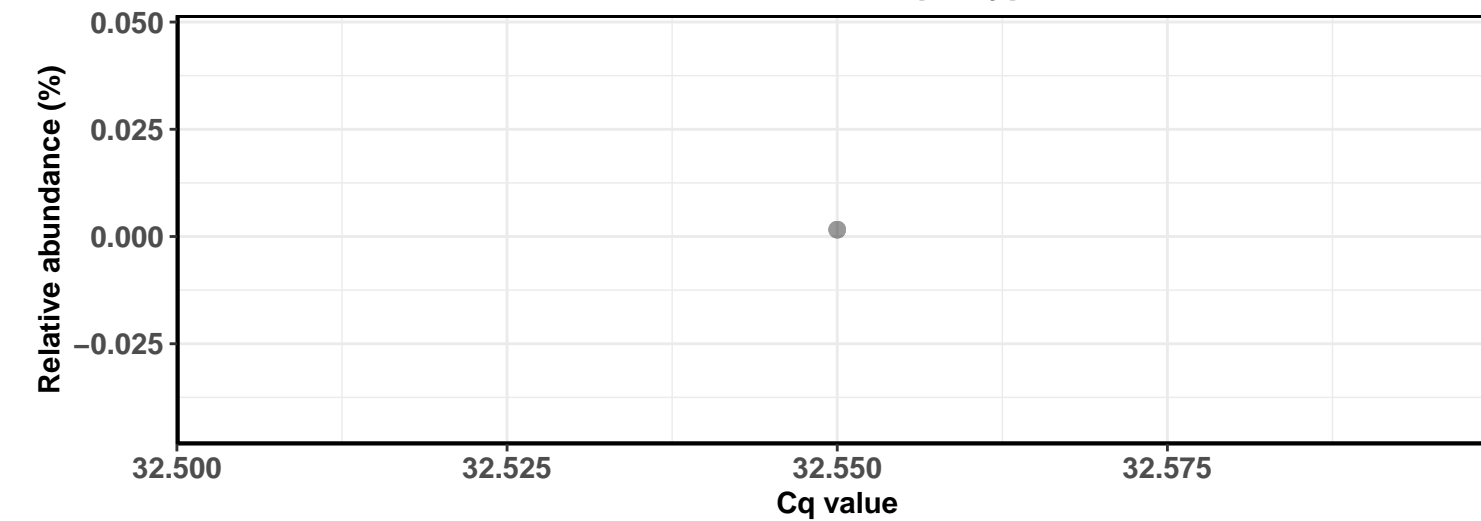
Correlation within the sample type: REF-DIC



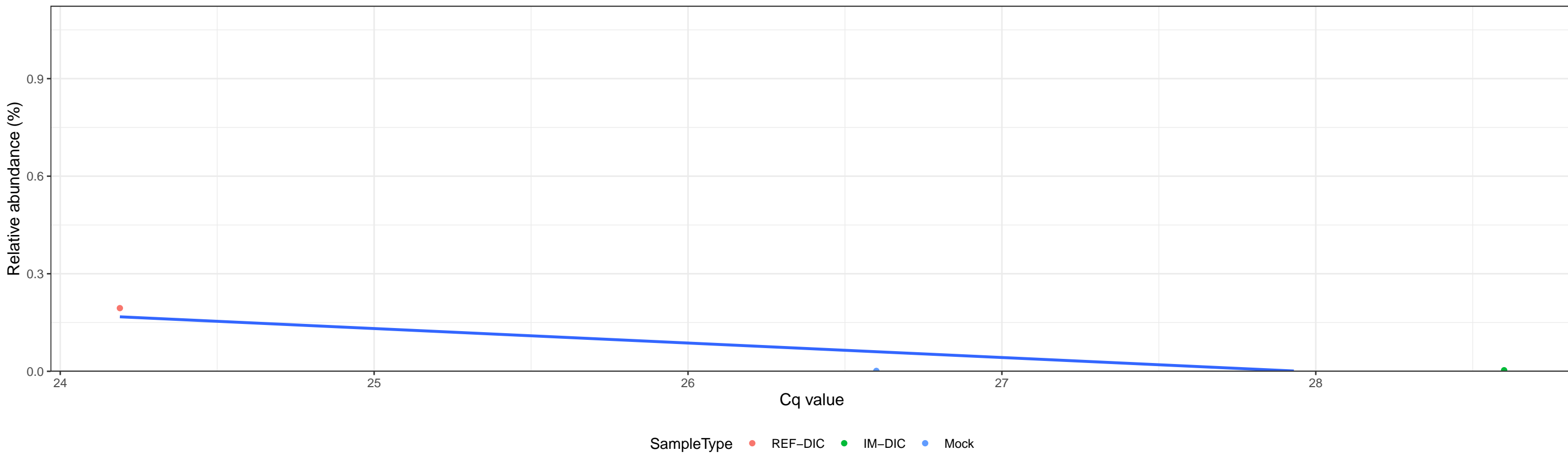
Correlation within the sample type: IM-DIC



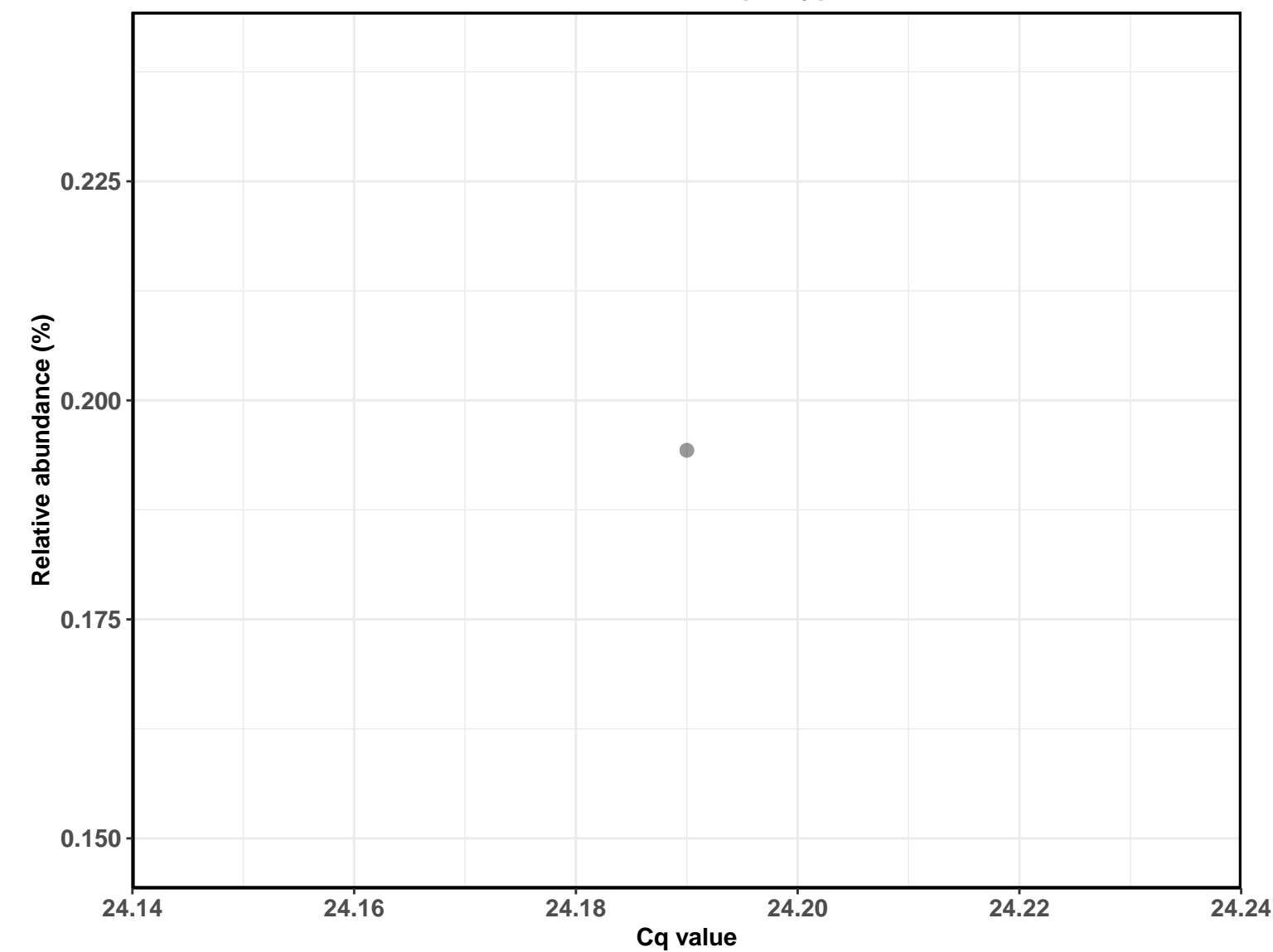
Correlation within the sample type: IM-DIM



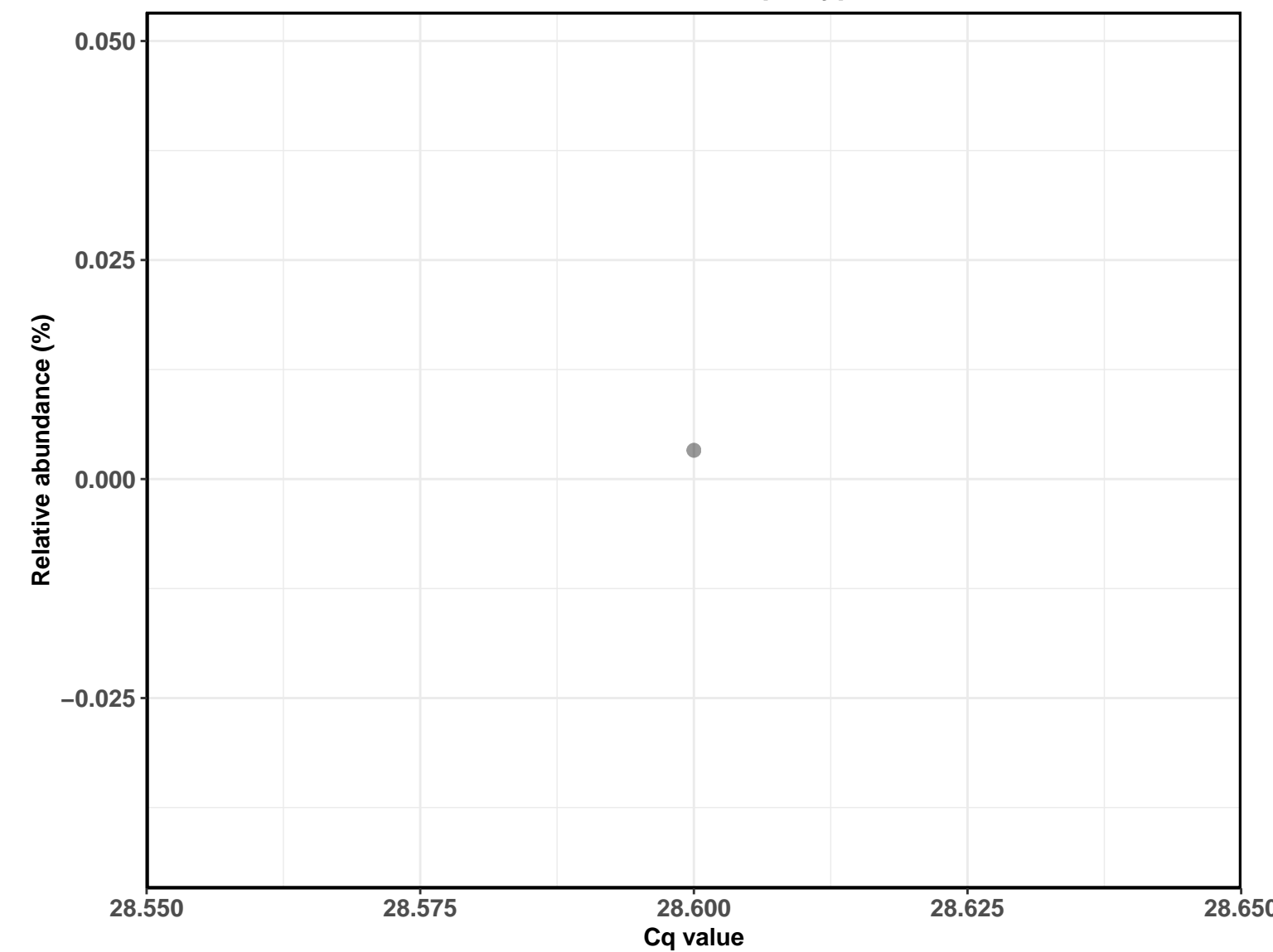
Correlation with all samples



Correlation within the sample type: REF-DIC

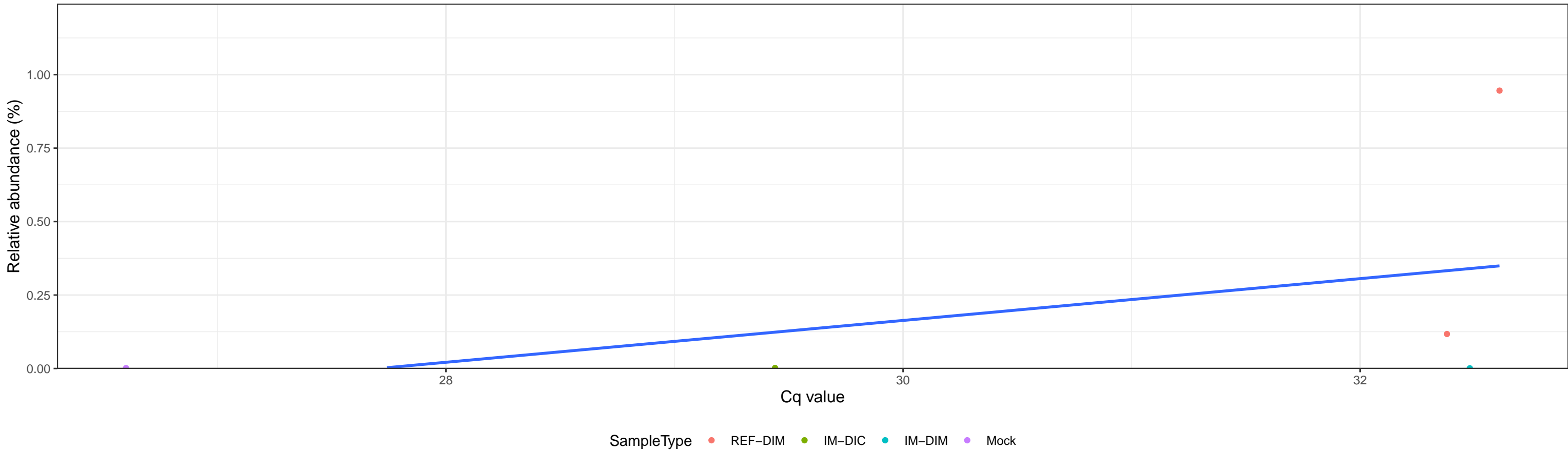


Correlation within the sample type: IM-DIC

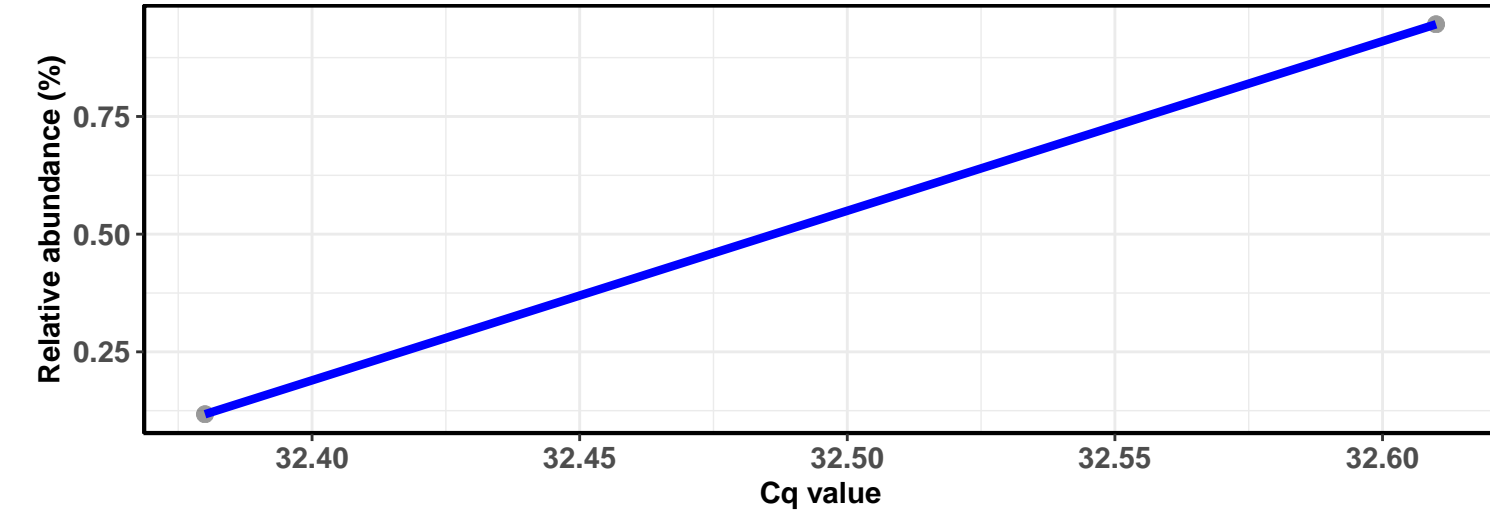


D\_0\_\_Bacteria; D\_1\_\_Bacteroidetes; D\_2\_\_Bacteroidia; D\_3\_\_Cytophagales; D\_4\_\_Hymenobacteraceae; D\_5\_\_Hymenobacter; D\_6\_\_uncultured bacterium

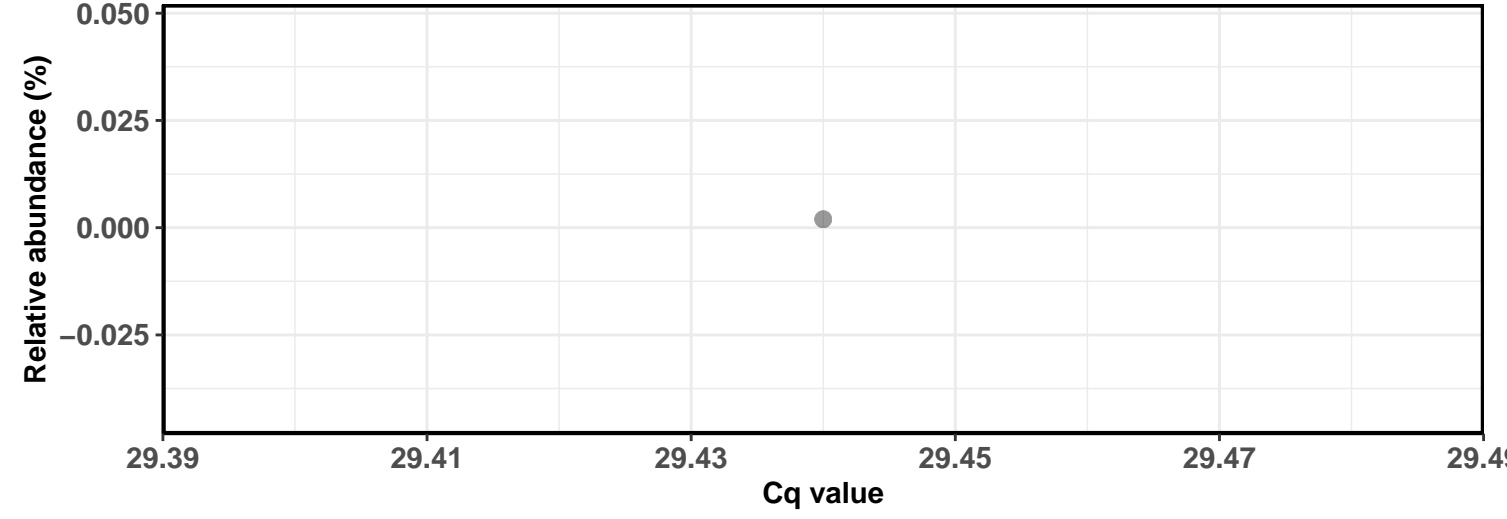
Correlation with all samples



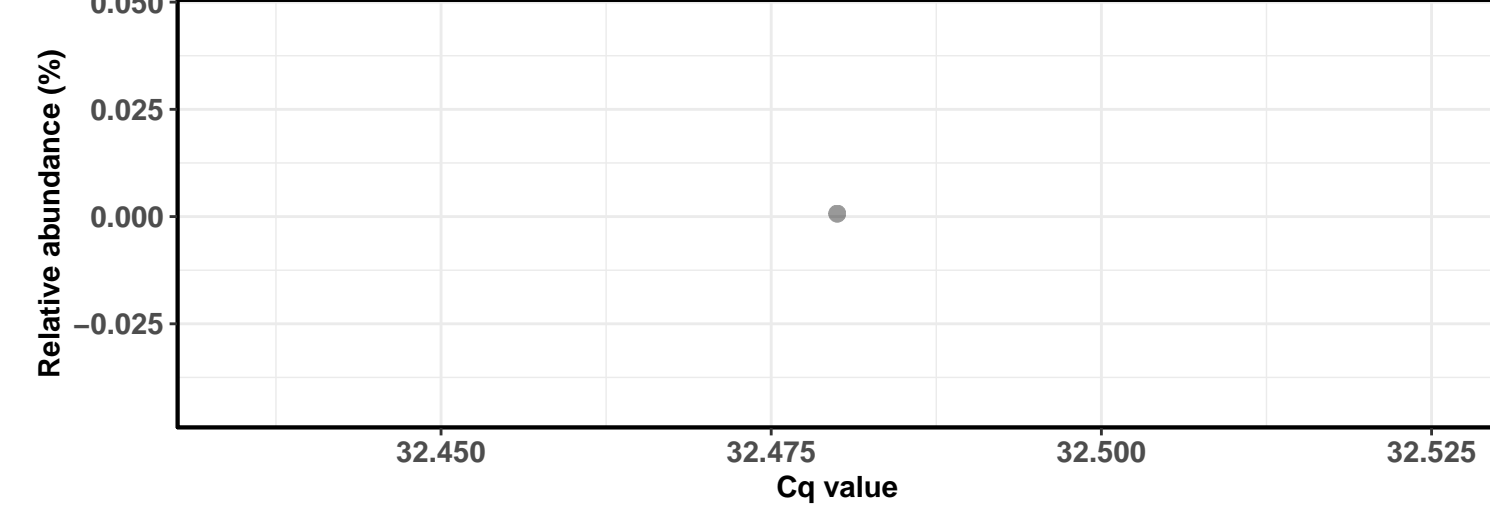
Correlation within the sample type: REF-DIM



Correlation within the sample type: IM-DIC



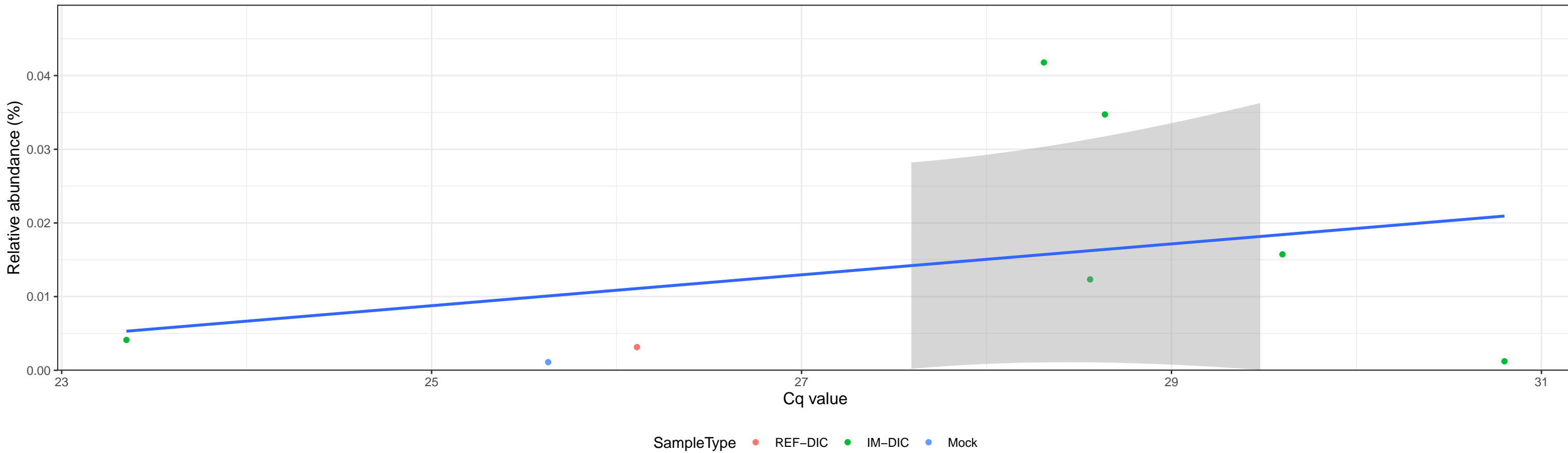
Correlation within the sample type: IM-DIM



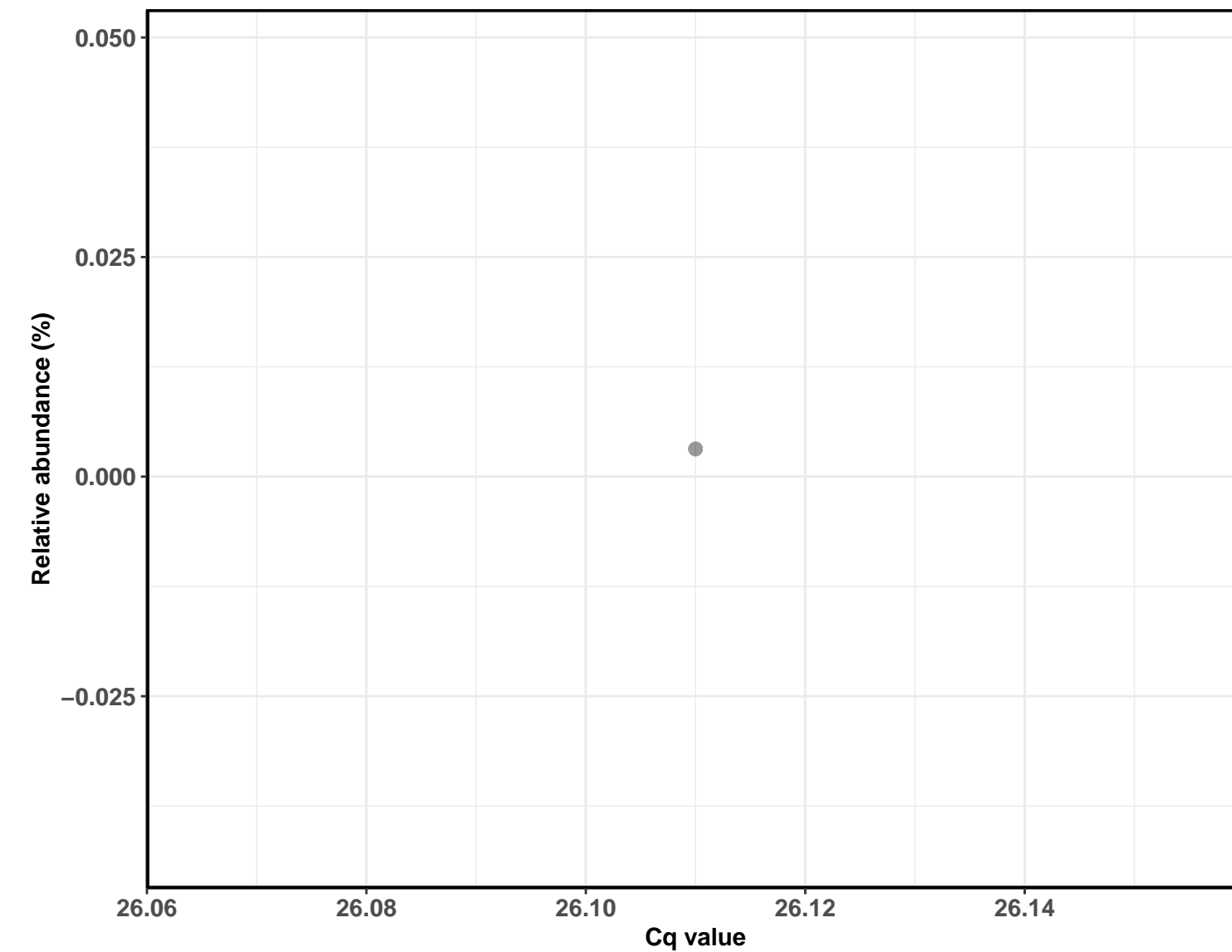


D\_0\_\_Bacteria; D\_1\_\_Firmicutes; D\_2\_\_Bacilli; D\_3\_\_Lactobacillales; D\_4\_\_Lactobacillaceae; D\_5\_\_Lactobacillus; D\_6\_\_Lactobacillus fermentum

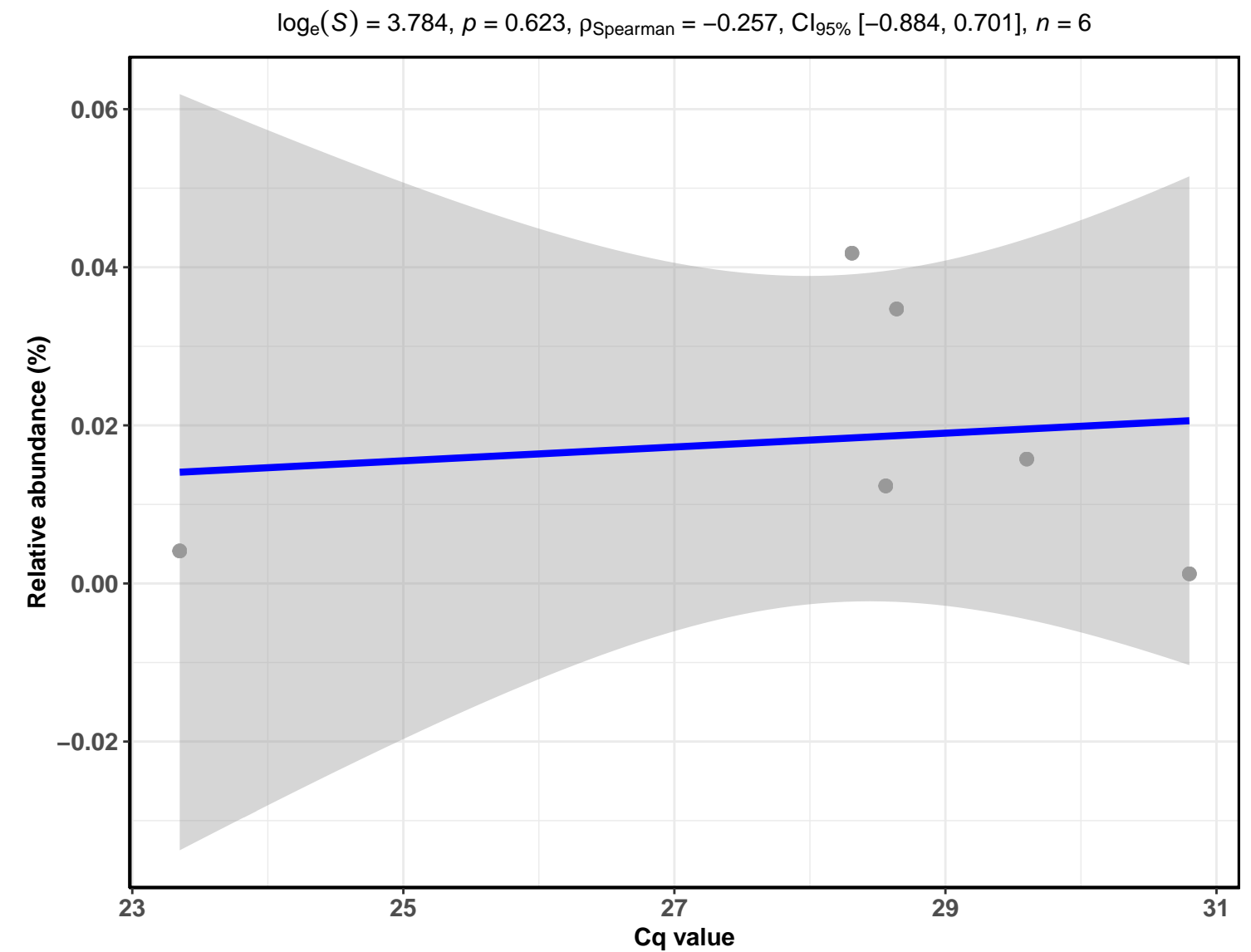
Correlation with all samples



Correlation within the sample type: REF-DIC

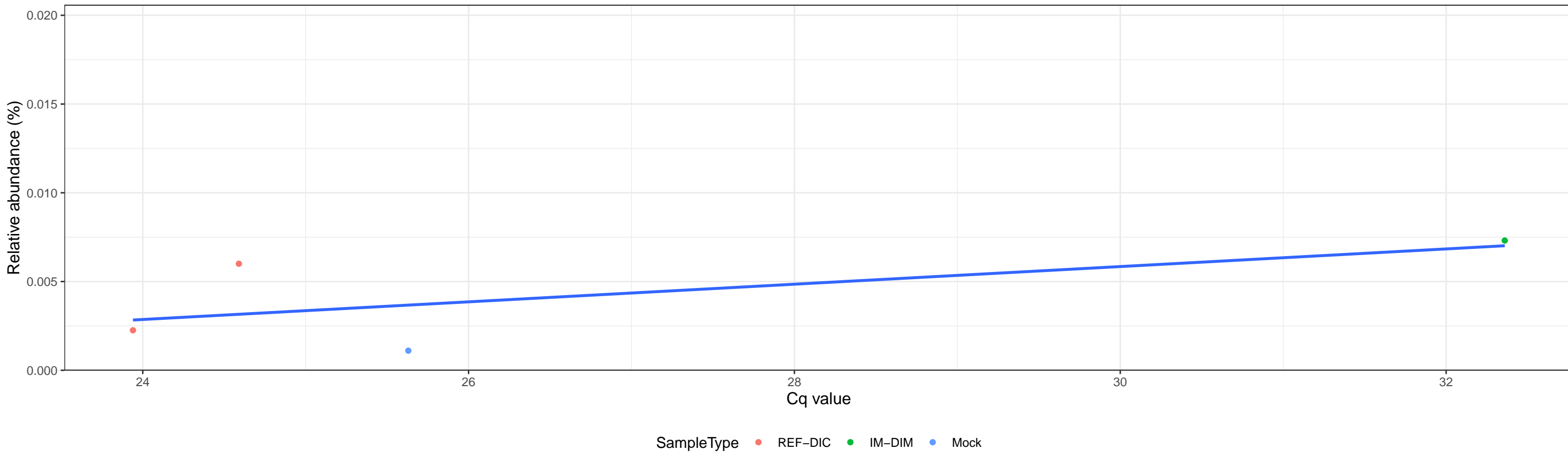


Correlation within the sample type: IM-DIC

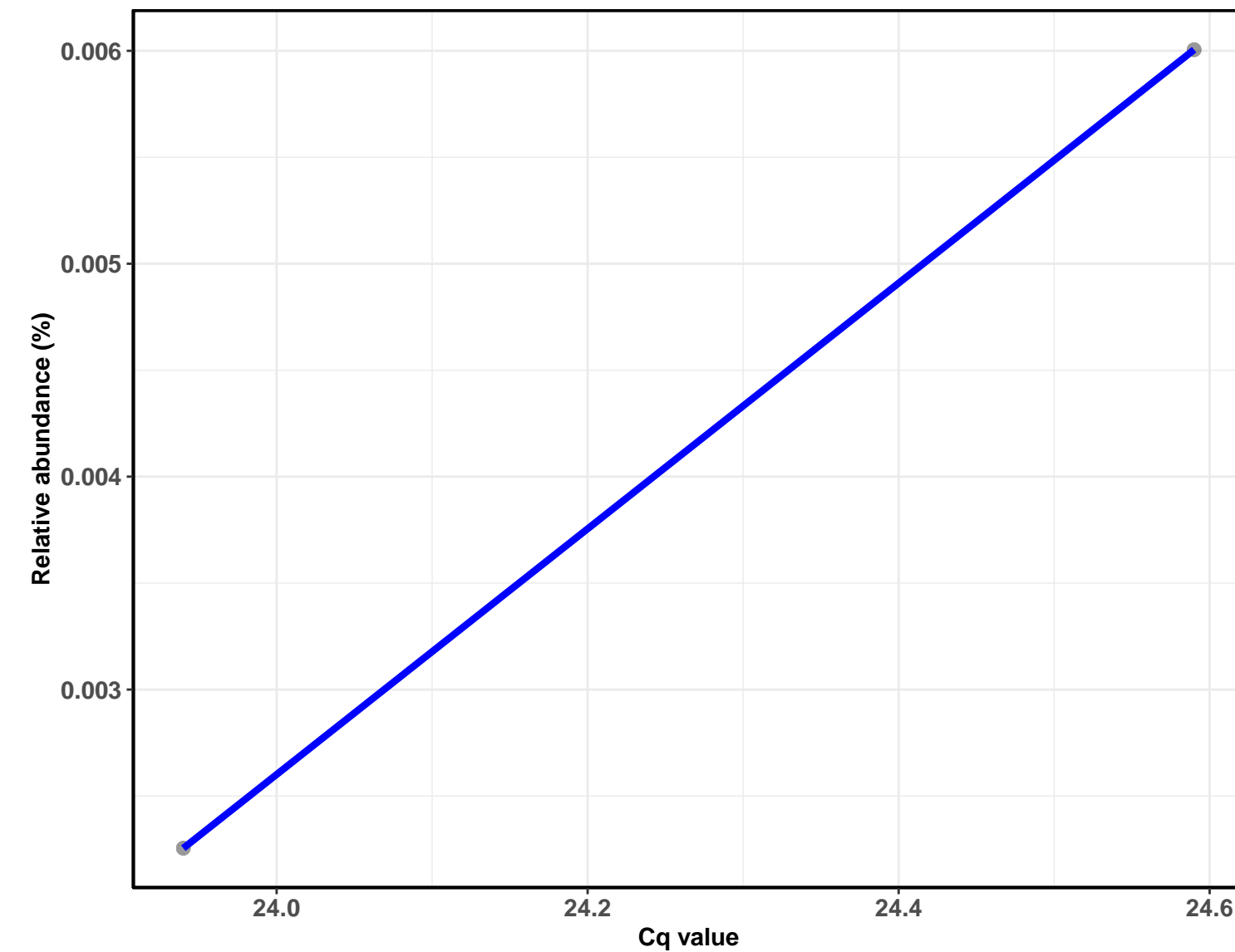


D\_0\_\_Bacteria; D\_1\_\_Proteobacteria; D\_2\_\_Gammaproteobacteria; D\_3\_\_Betaproteobacteriales; D\_4\_\_Burkholderiaceae; D\_5\_\_Acidovorax

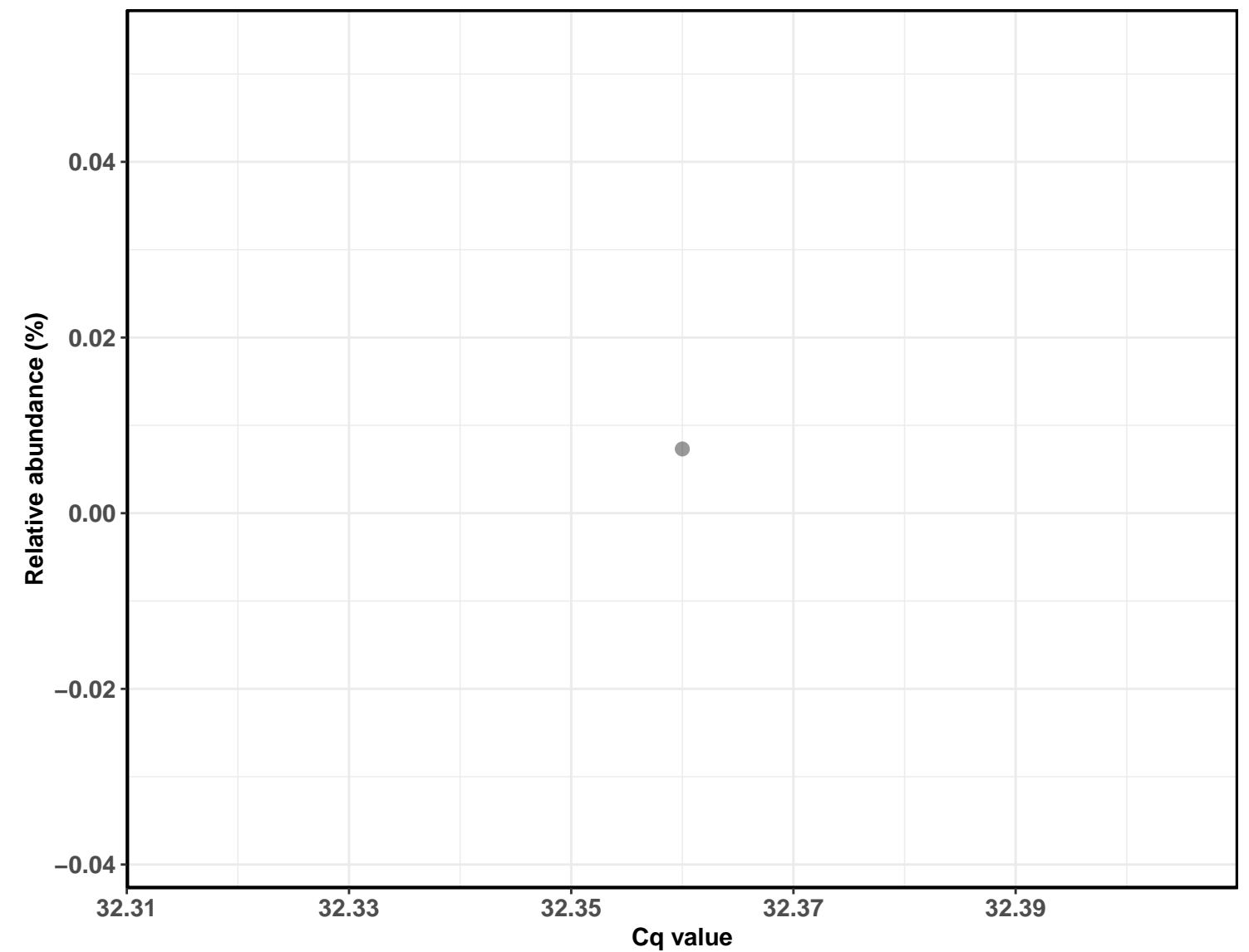
Correlation with all samples



Correlation within the sample type: REF-DIC

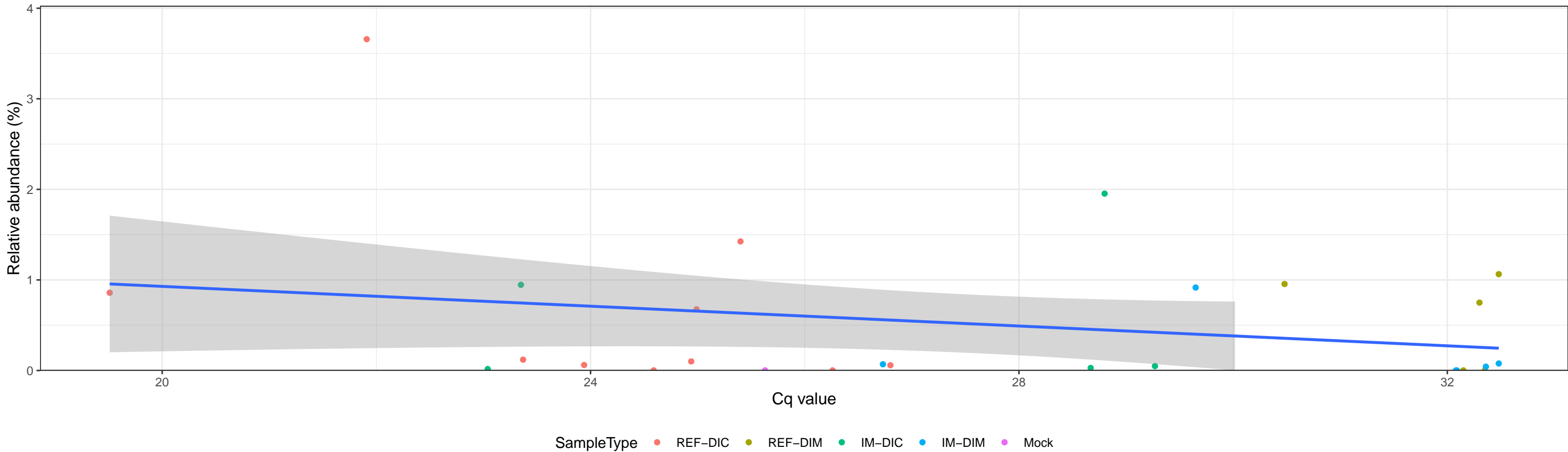


Correlation within the sample type: IM-DIM



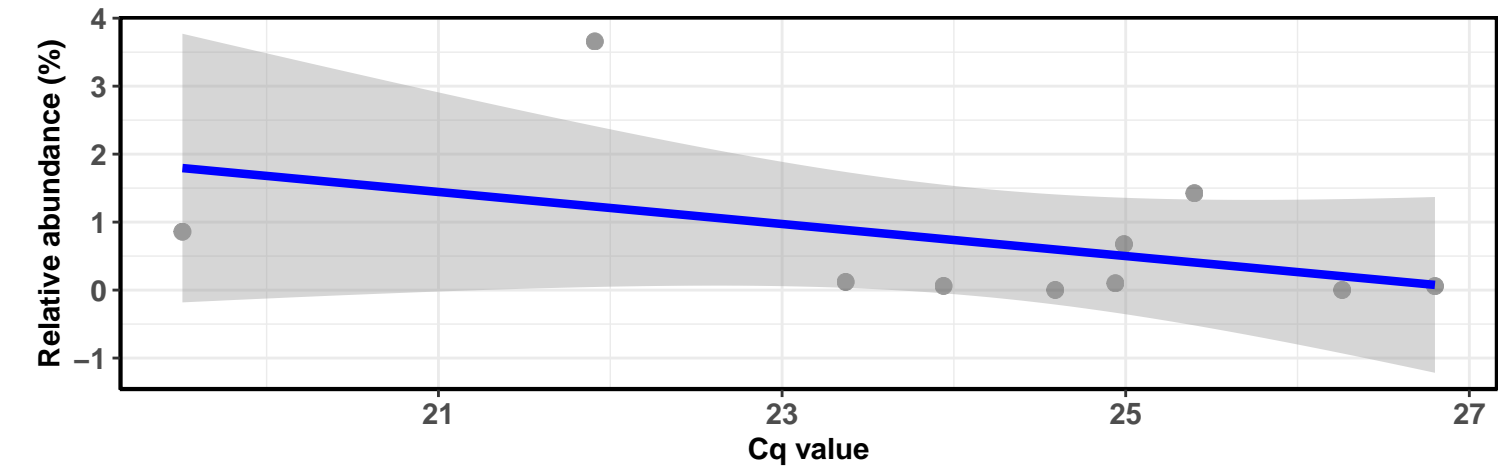
D\_0\_\_Bacteria; D\_1\_\_Proteobacteria; D\_2\_\_Gammaproteobacteria; D\_3\_\_Vibrionales; D\_4\_\_Vibrionaceae; D\_5\_\_Aliivibrio; Ambiguous\_taxa

Correlation with all samples

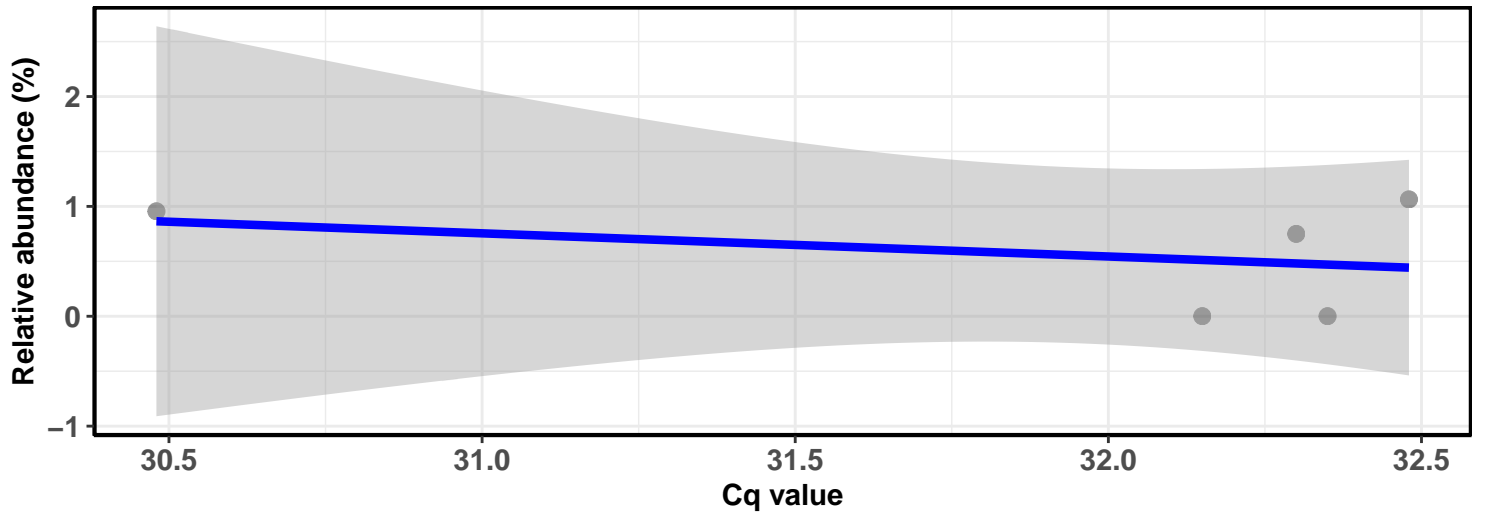


Correlation within the sample type: REF-DIC

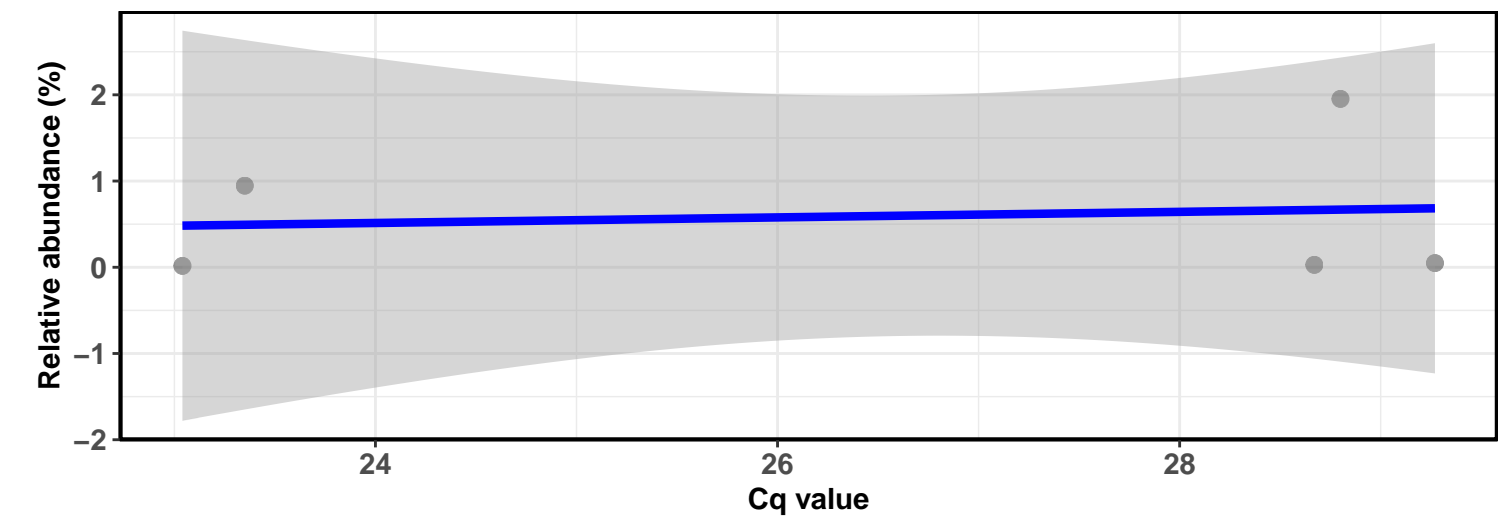
$\log_e(S) = 5.505$ ,  $p = 0.150$ ,  $\rho_{\text{Spearman}} = -0.491$ ,  $CI_{95\%} [-0.856, 0.201]$ ,  $n = 10$



Correlation within the sample type: REF-DIM

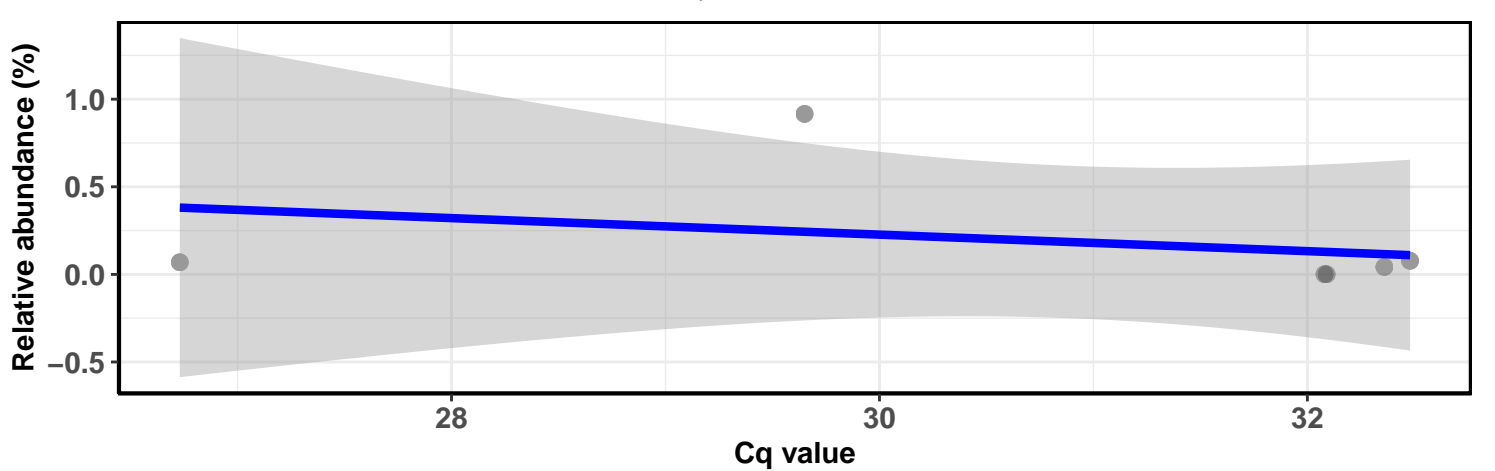


Correlation within the sample type: IM-DIC



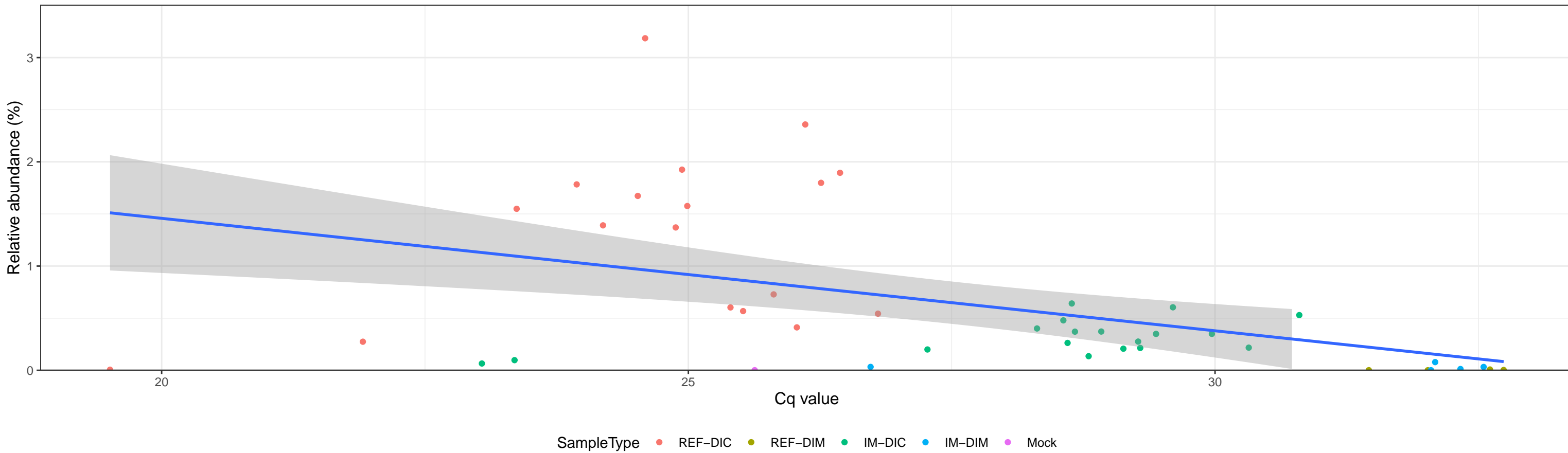
Correlation within the sample type: IM-DIM

$\log_e(S) = 3.689$ ,  $p = 0.787$ ,  $\rho_{\text{Spearman}} = -0.143$ ,  $CI_{95\%} [-0.855, 0.756]$ ,  $n = 6$



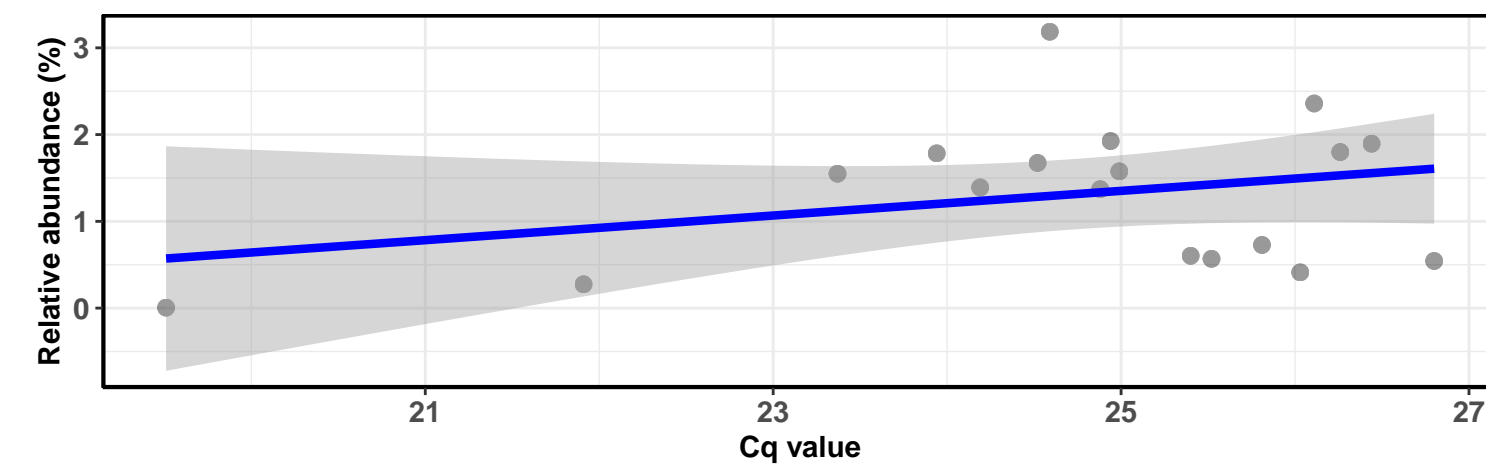
D\_0\_\_Bacteria; D\_1\_\_Firmicutes; D\_2\_\_Bacilli; D\_3\_\_Lactobacillales; D\_4\_\_Leuconostocaceae; D\_5\_\_Weissella; D\_6\_\_uncultured bacterium

Correlation with all samples

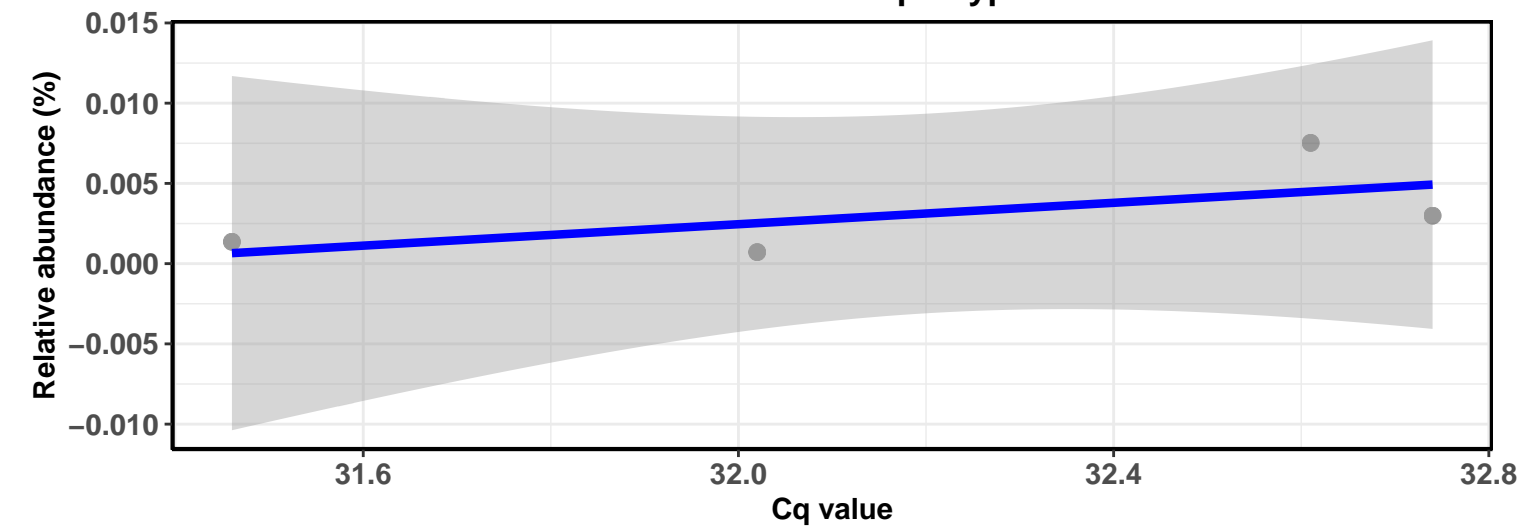


Correlation within the sample type: REF-DIC

$\log_e(S) = 6.675$ ,  $p = 0.468$ ,  $\rho_{\text{Spearman}} = 0.183$ ,  $CI_{95\%} [-0.311, 0.598]$ ,  $n = 18$

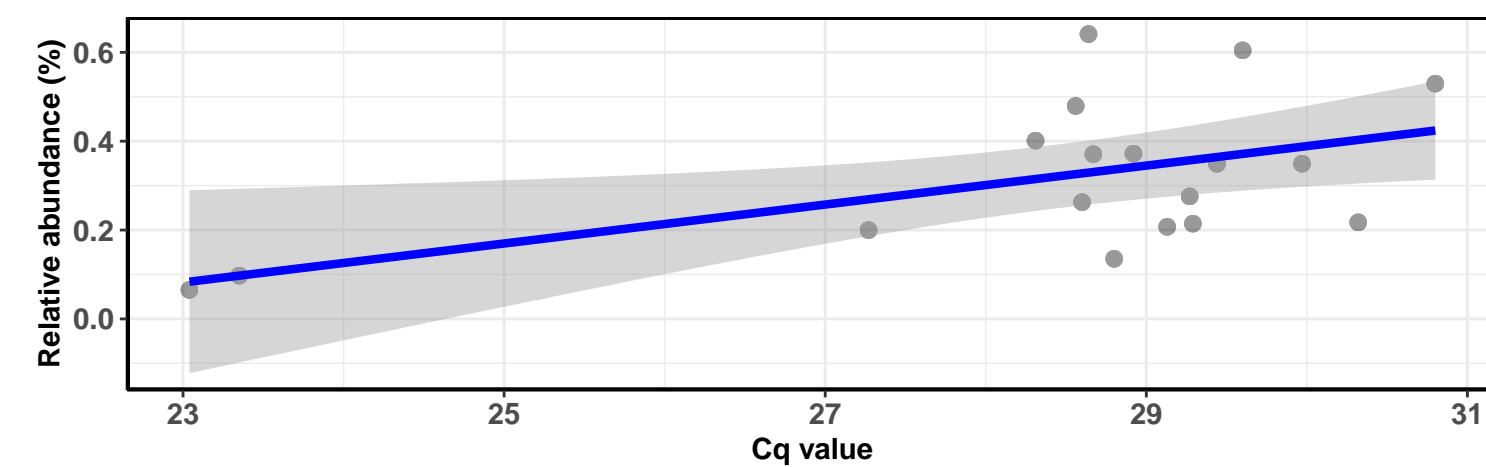


Correlation within the sample type: REF-DIM

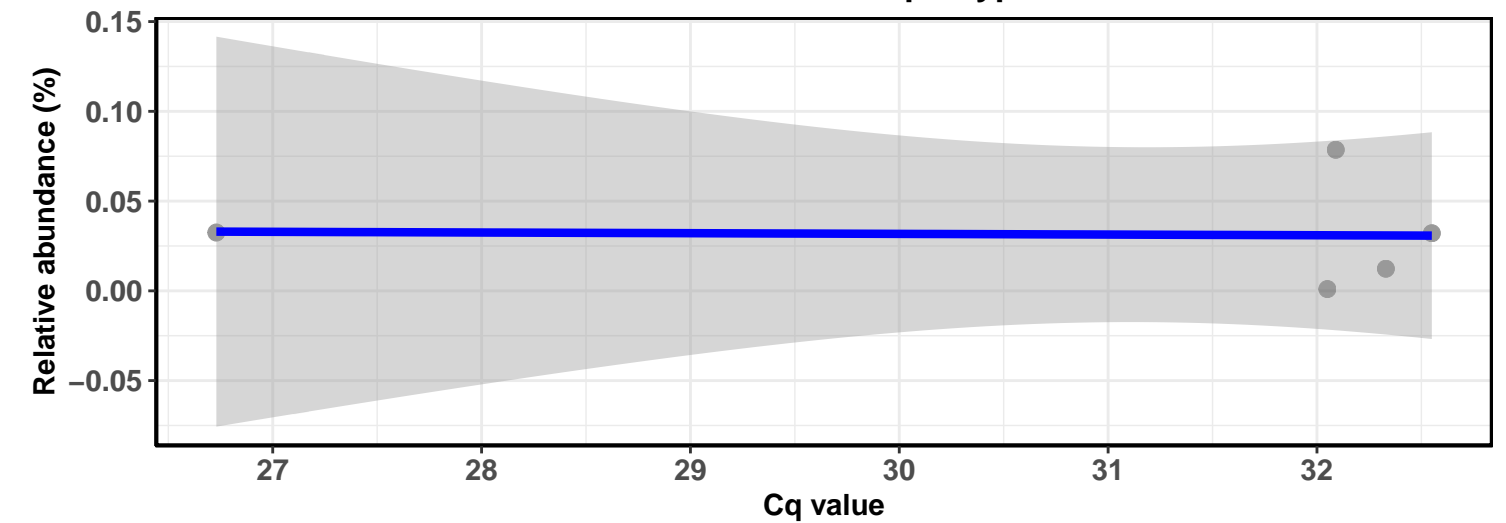


Correlation within the sample type: IM-DIC

$\log_e(S) = 6.446$ ,  $p = 0.155$ ,  $\rho_{\text{Spearman}} = 0.350$ ,  $CI_{95\%} [-0.140, 0.702]$ ,  $n = 18$

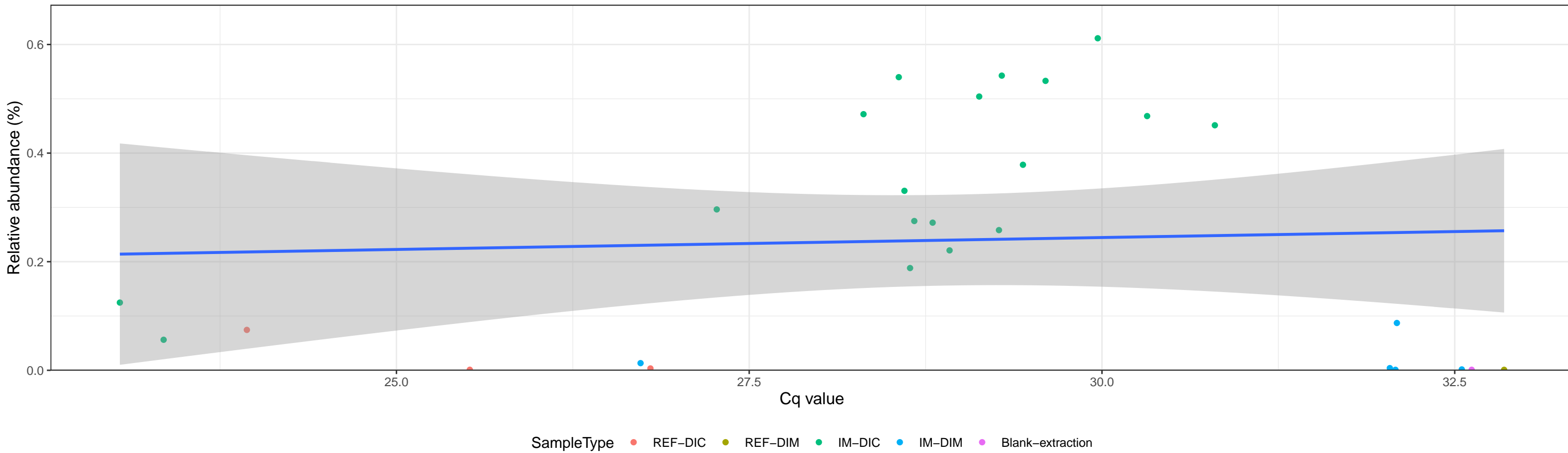


Correlation within the sample type: IM-DIM

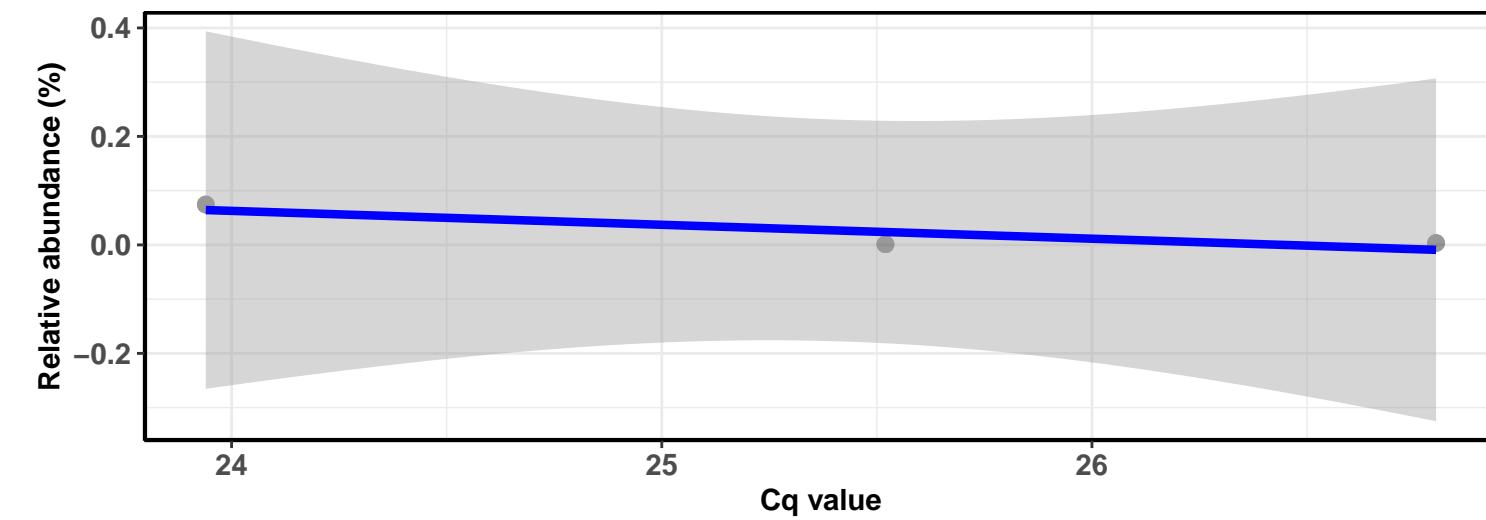


D\_0\_\_Bacteria; D\_1\_\_Firmicutes; D\_2\_\_Bacilli; D\_3\_\_Bacillales; D\_4\_\_Bacillaceae; D\_5\_\_Ornithinibacillus; Ambiguous\_taxa

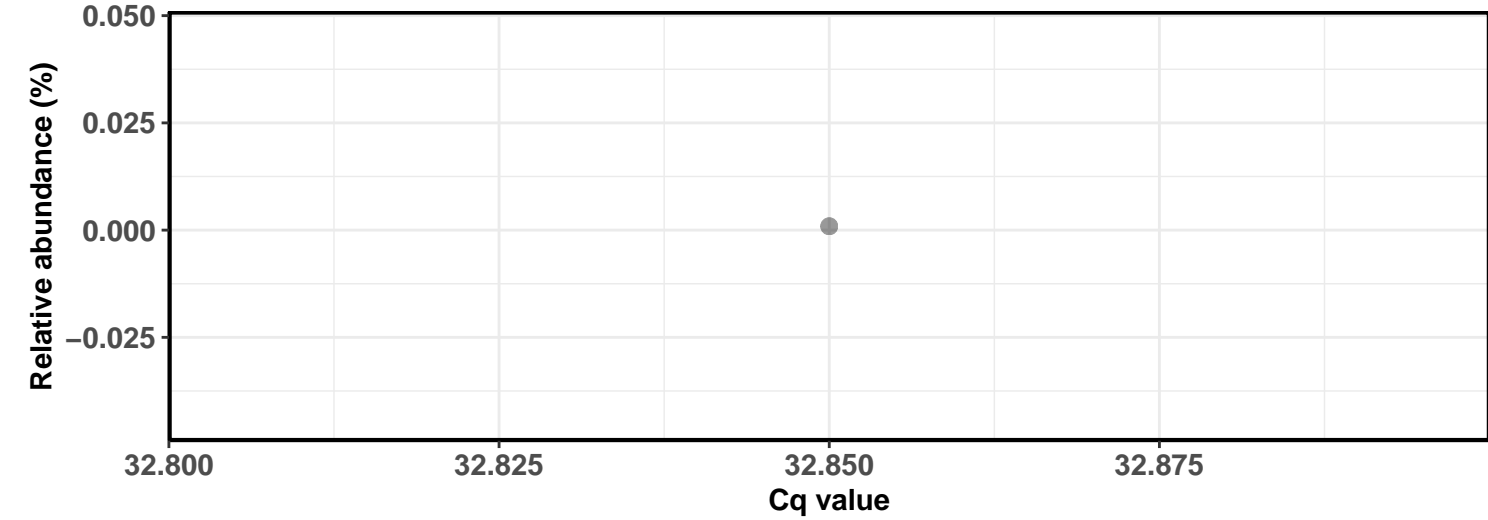
Correlation with all samples



Correlation within the sample type: REF-DIC

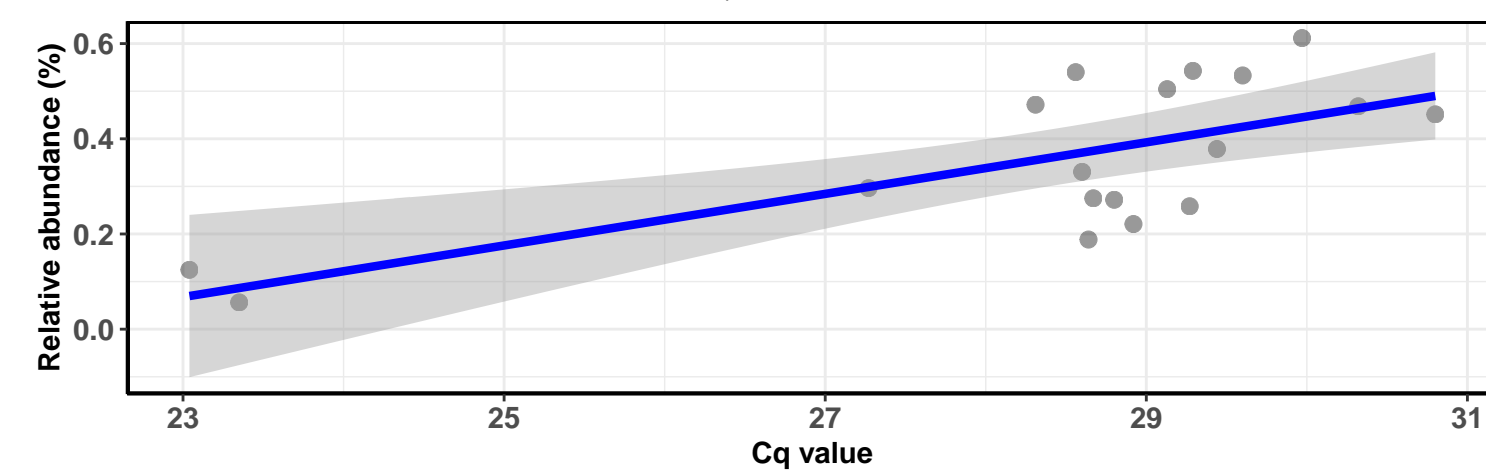


Correlation within the sample type: REF-DIM

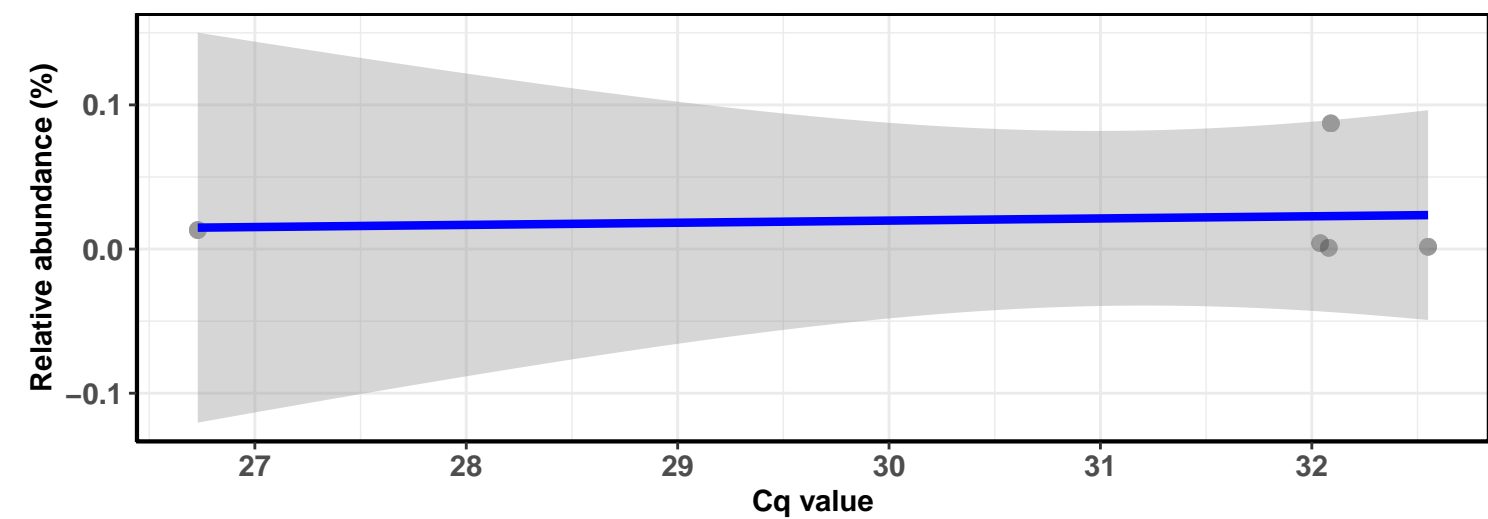


Correlation within the sample type: IM-DIC

$\log_e(S) = 6.148$ ,  $p = 0.028$ ,  $\rho_{\text{Spearman}} = 0.517$ ,  $CI_{95\%} [0.066, 0.793]$ ,  $n = 18$

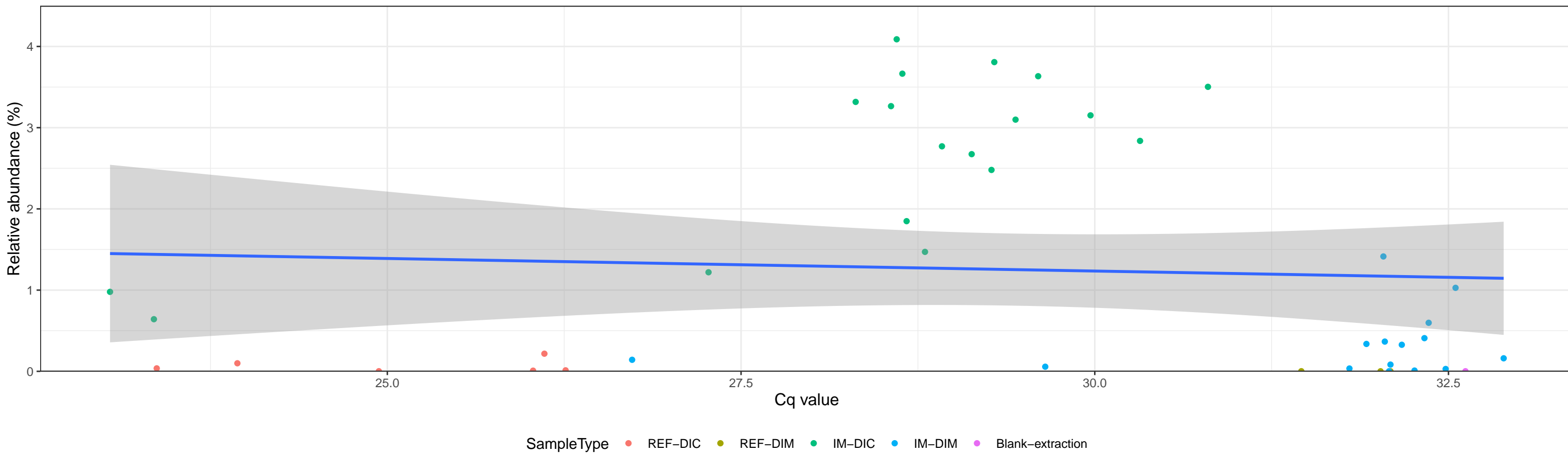


Correlation within the sample type: IM-DIM



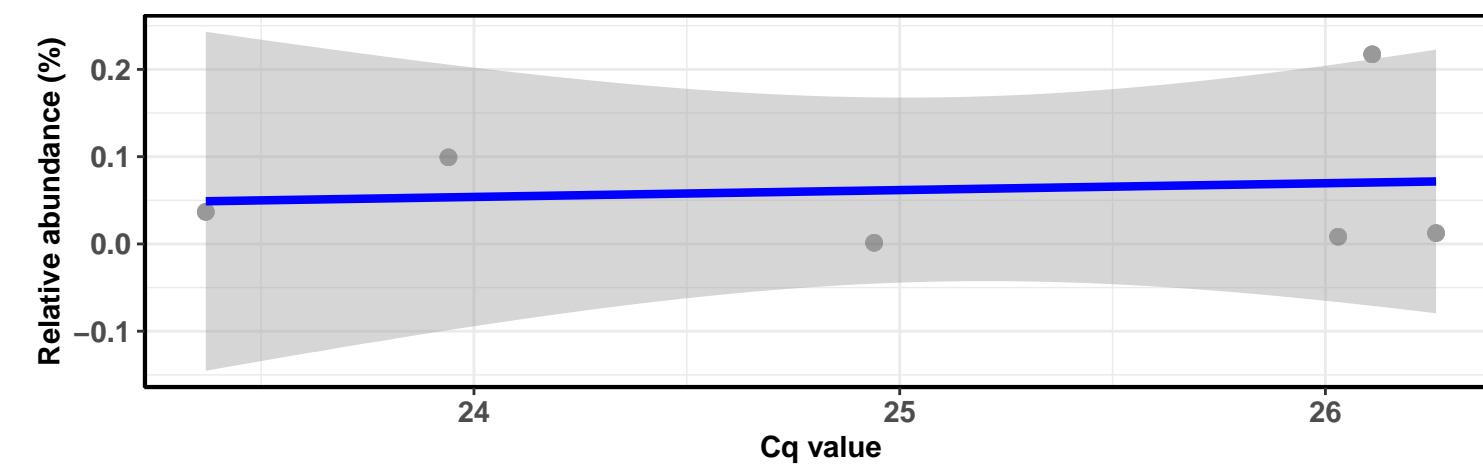
acteria; D\_1\_\_Actinobacteria; D\_2\_\_Actinobacteria; D\_3\_\_Corynebacteriales; D\_4\_\_Corynebacteriaceae; D\_5\_\_Corynebacterium 1; D\_6\_\_Corynebacterium aurimucosum ATC

Correlation with all samples

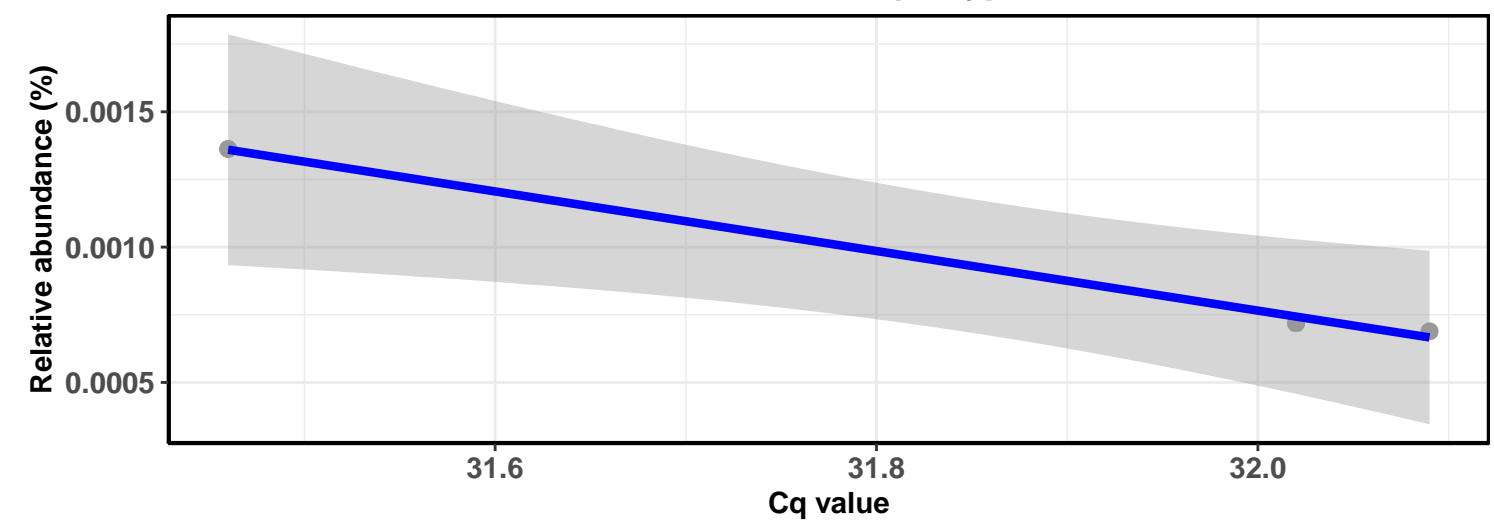


Correlation within the sample type: REF-DIC

$\log_e(S) = 3.584$ ,  $p = 0.957$ ,  $\rho_{\text{Spearman}} = -0.029$ ,  $\text{CI}_{95\%} [-0.821, 0.802]$ ,  $n = 6$

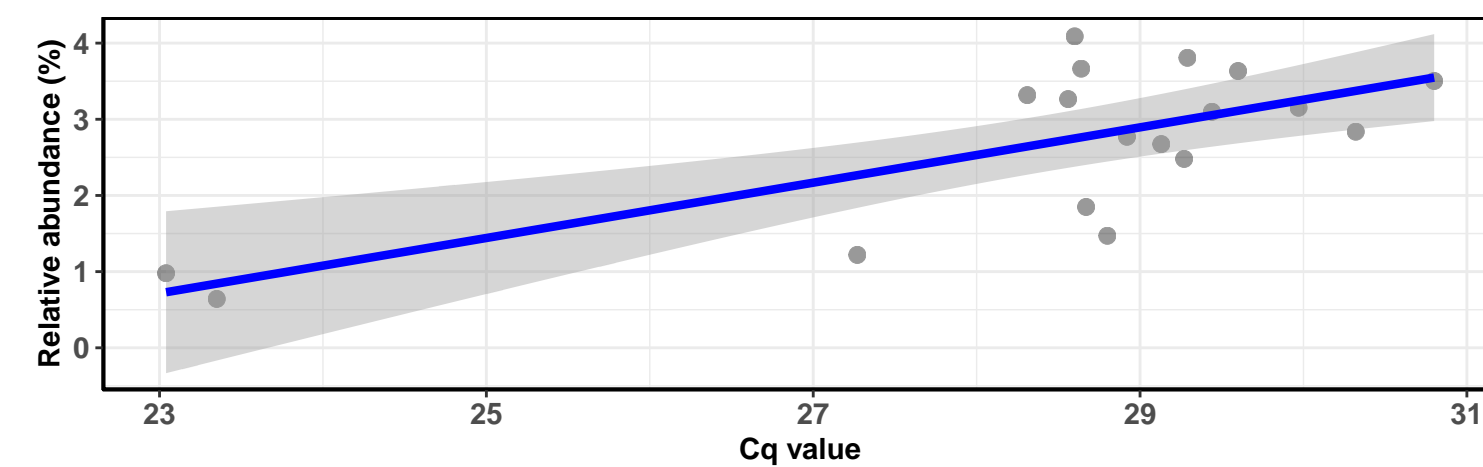


Correlation within the sample type: REF-DIM



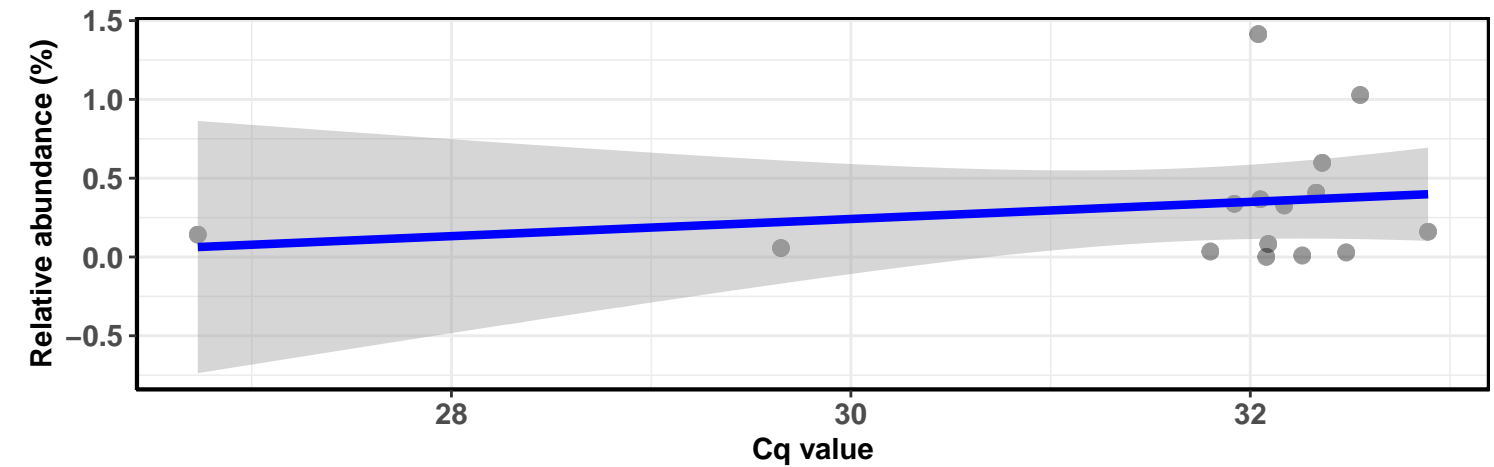
Correlation within the sample type: IM-DIC

$\log_e(S) = 6.370$ ,  $p = 0.103$ ,  $\rho_{\text{Spearman}} = 0.397$ ,  $\text{CI}_{95\%} [-0.085, 0.729]$ ,  $n = 18$

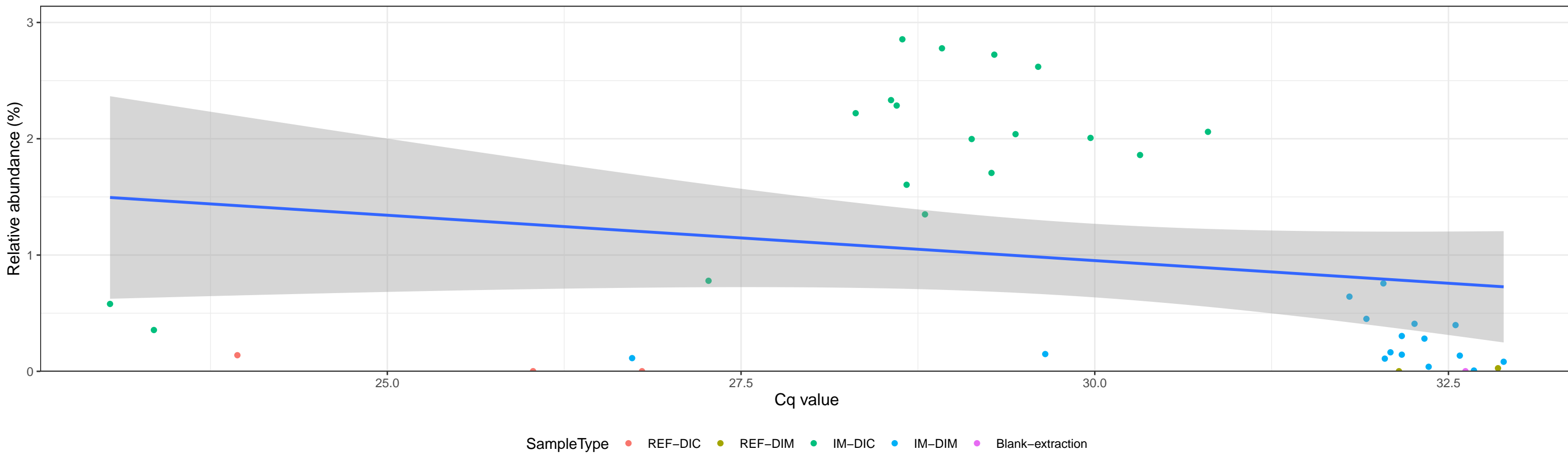


Correlation within the sample type: IM-DIM

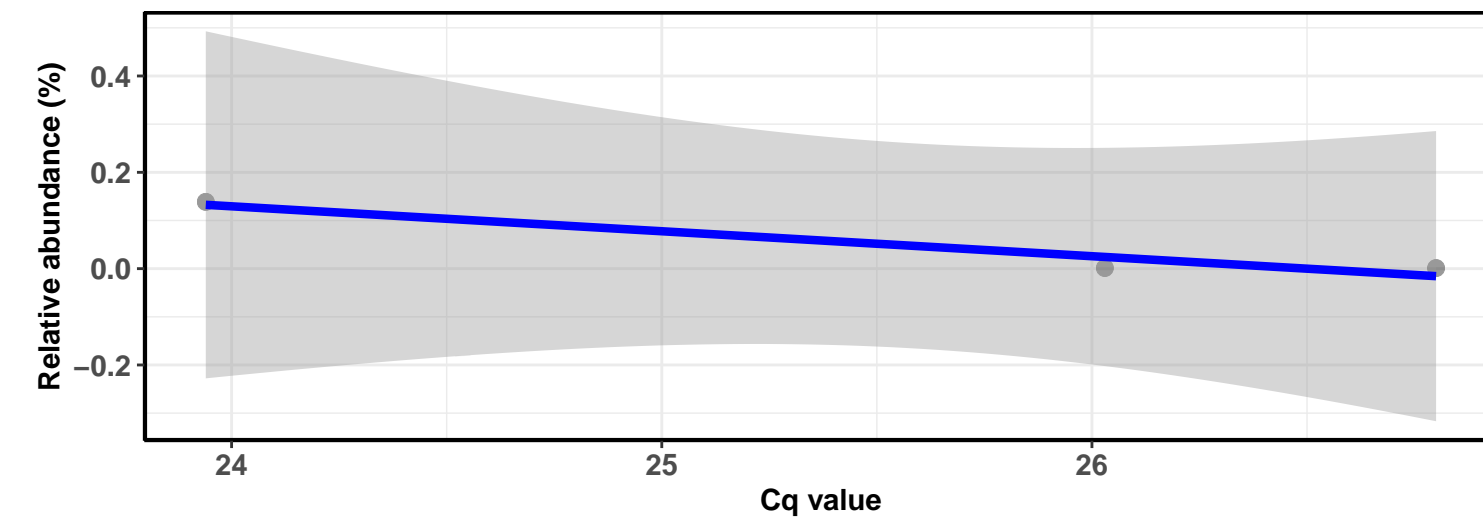
$\log_e(S) = 6.136$ ,  $p = 0.533$ ,  $\rho_{\text{Spearman}} = 0.175$ ,  $\text{CI}_{95\%} [-0.370, 0.631]$ ,  $n = 15$



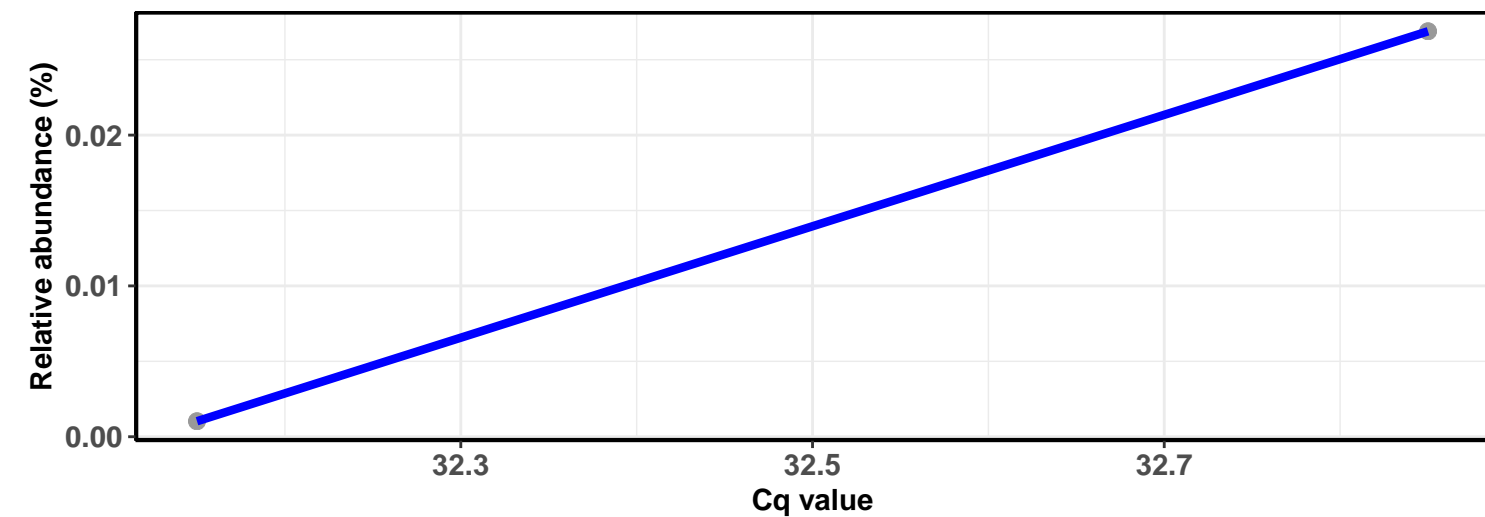
Correlation with all samples



Correlation within the sample type: REF-DIC

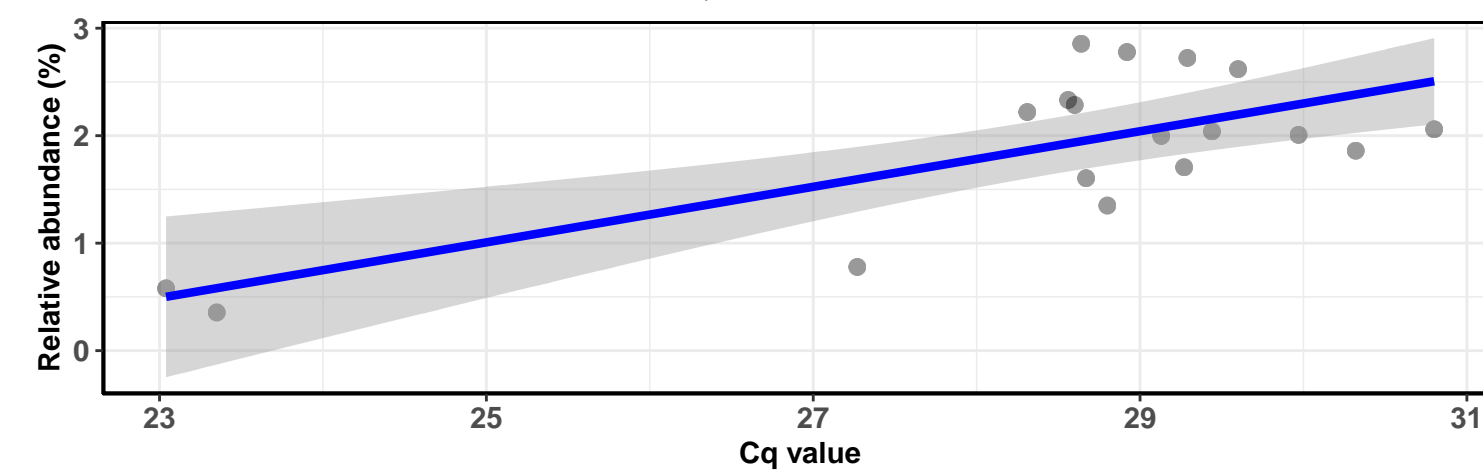


Correlation within the sample type: REF-DIM



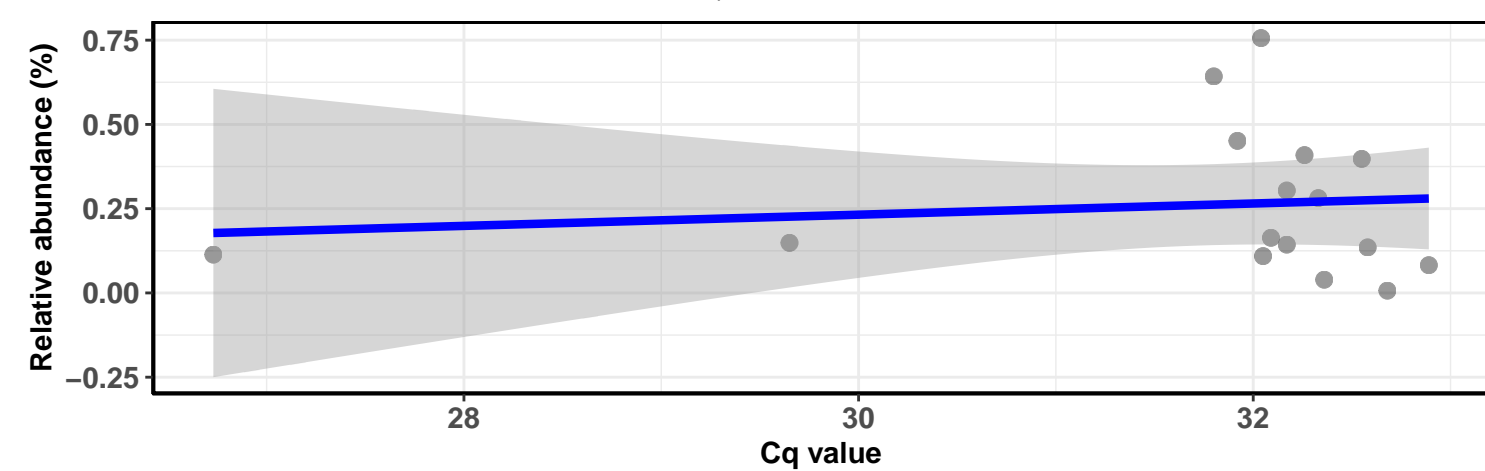
Correlation within the sample type: IM-DIC

$\log_e(S) = 6.504$ ,  $p = 0.210$ ,  $\rho_{\text{Spearman}} = 0.311$ ,  $CI_{95\%} [-0.183, 0.679]$ ,  $n = 18$



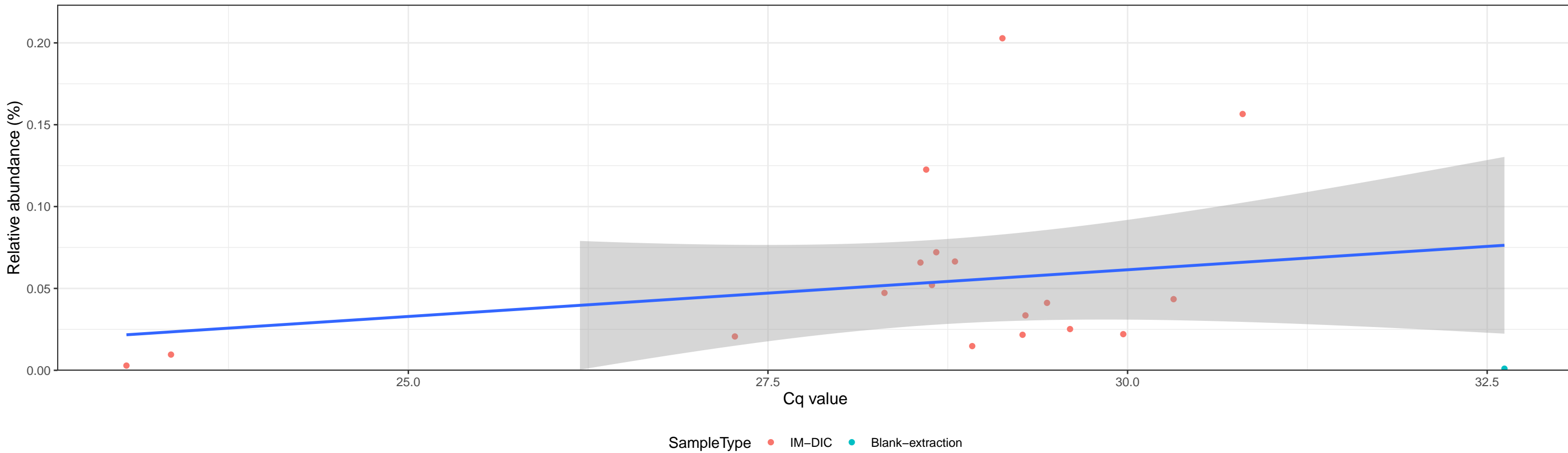
Correlation within the sample type: IM-DIM

$\log_e(S) = 6.882$ ,  $p = 0.094$ ,  $\rho_{\text{Spearman}} = -0.433$ ,  $CI_{95\%} [-0.764, 0.080]$ ,  $n = 16$



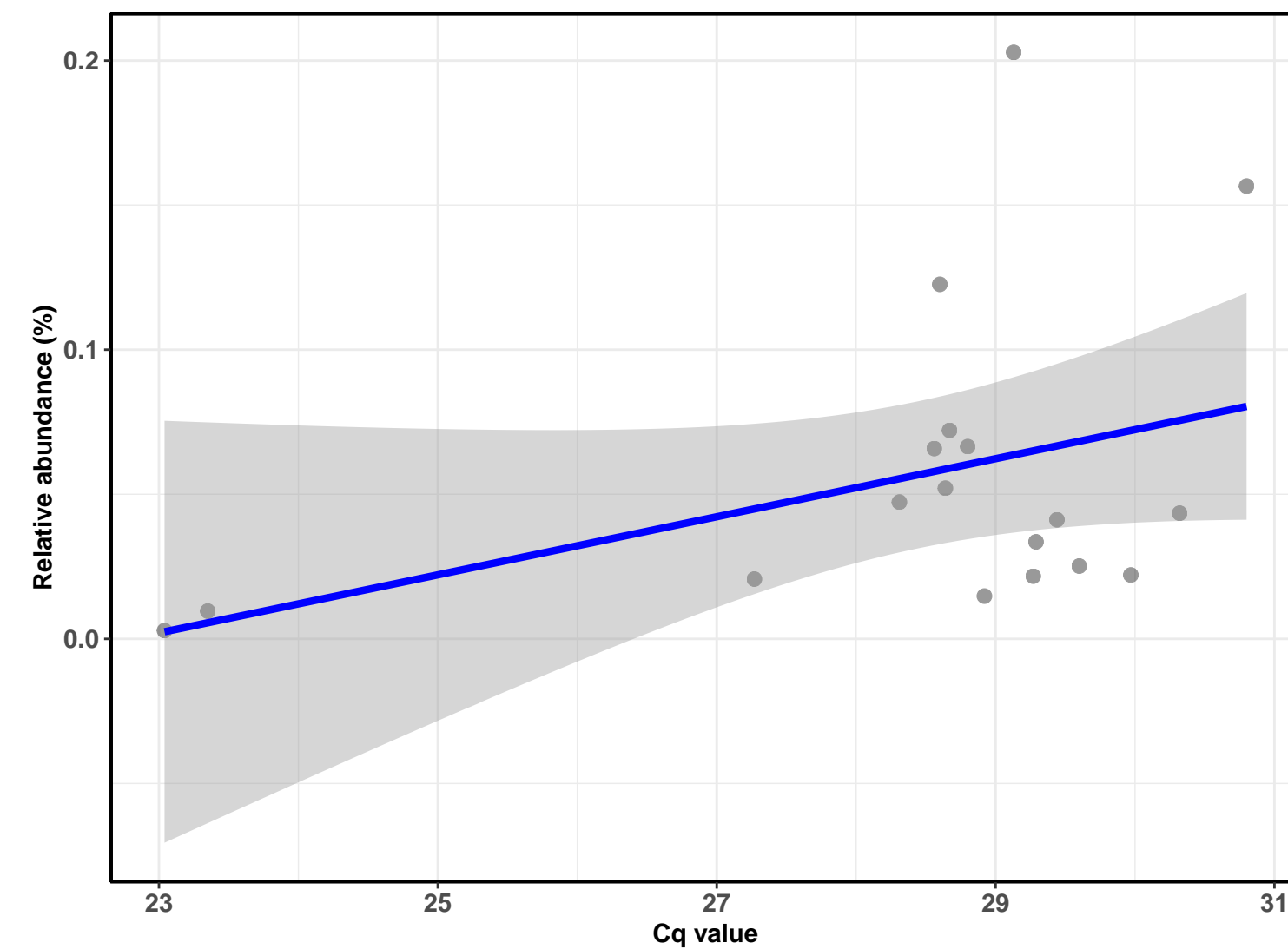
D\_0\_\_Bacteria; D\_1\_\_Firmicutes; D\_2\_\_Bacilli; D\_3\_\_Lactobacillales; D\_4\_\_Lactobacillaceae; D\_5\_\_Lactobacillus; Ambiguous\_taxa

### Correlation with all samples



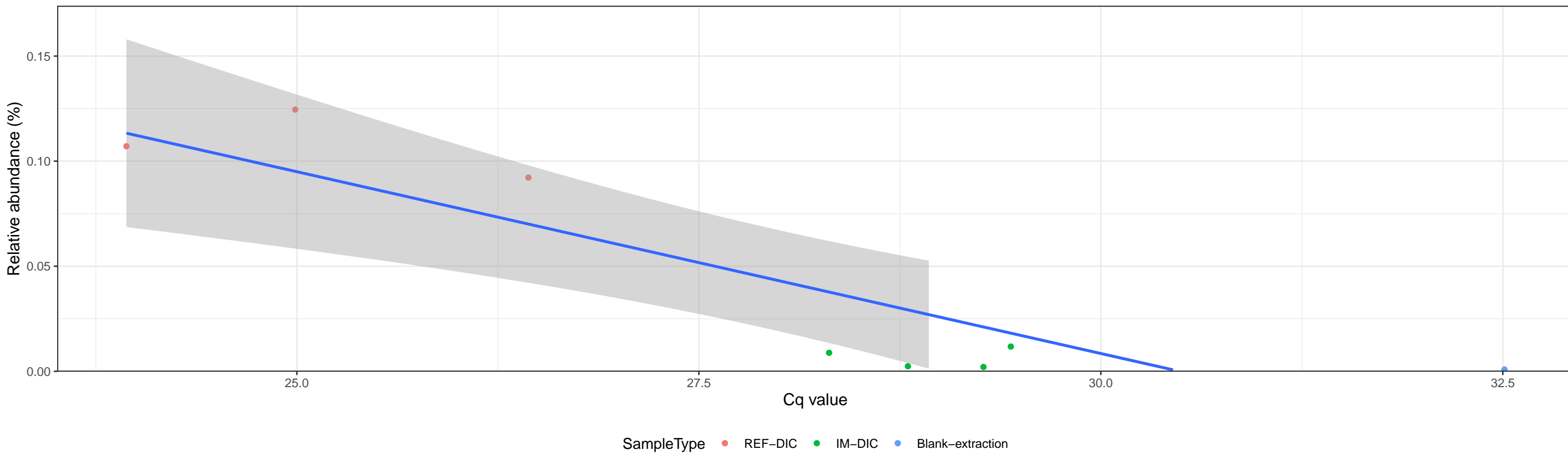
### Correlation within the sample type: IM-DIC

$\log_e(S) = 6.585$ ,  $p = 0.311$ ,  $\rho_{\text{Spearman}} = 0.253$ ,  $CI_{95\%} [-0.243, 0.644]$ ,  $n = 18$

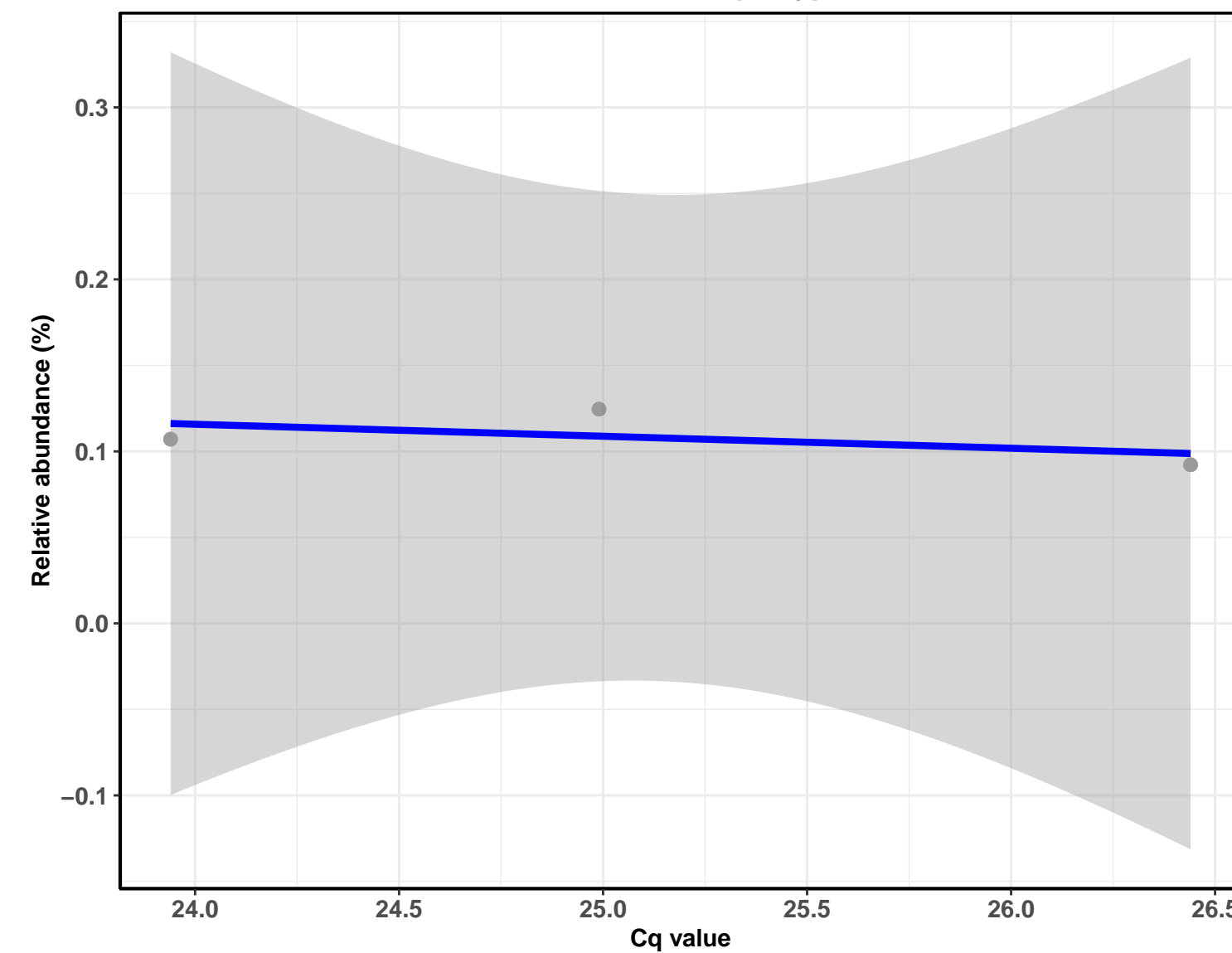




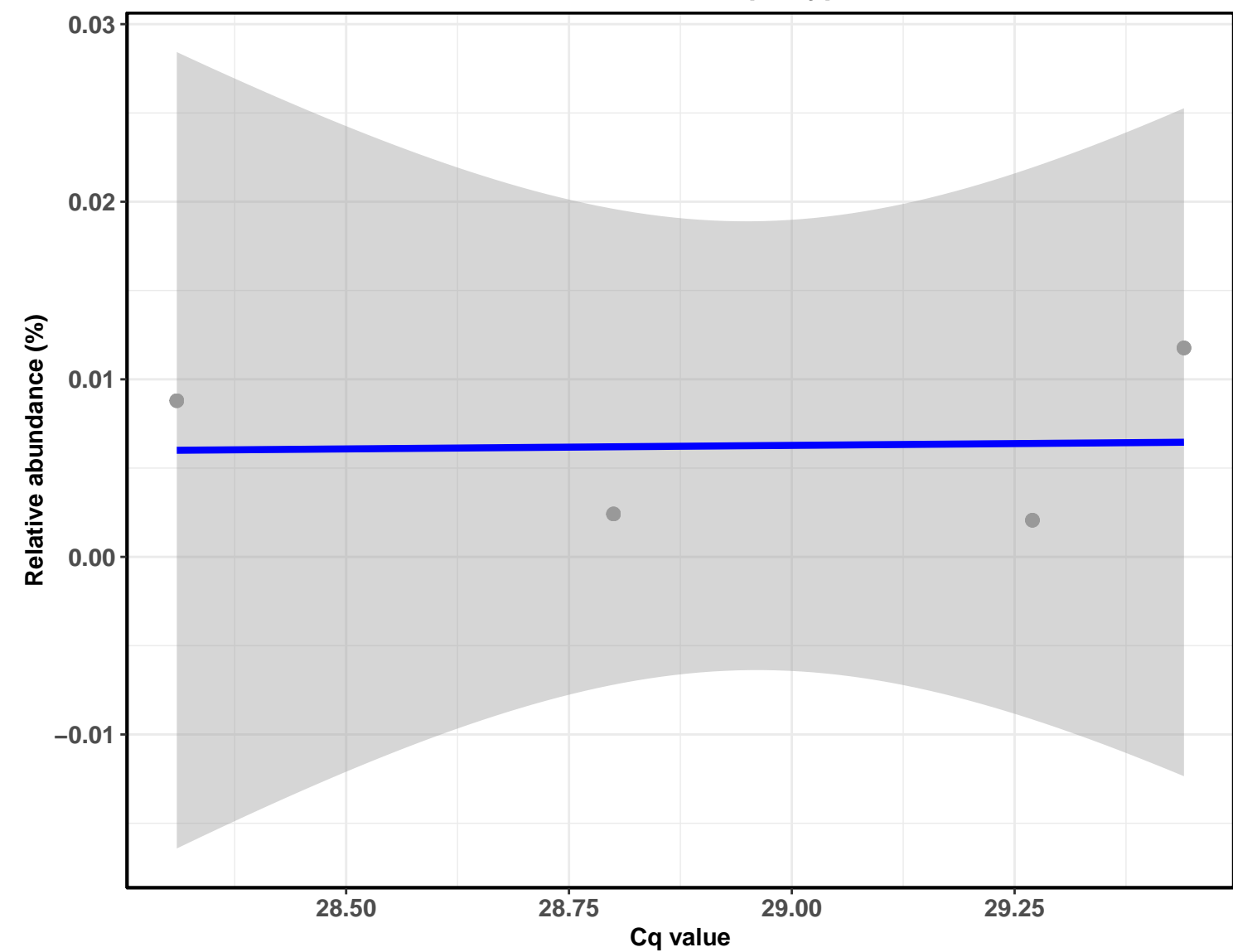
Correlation with all samples



Correlation within the sample type: REF-DIC

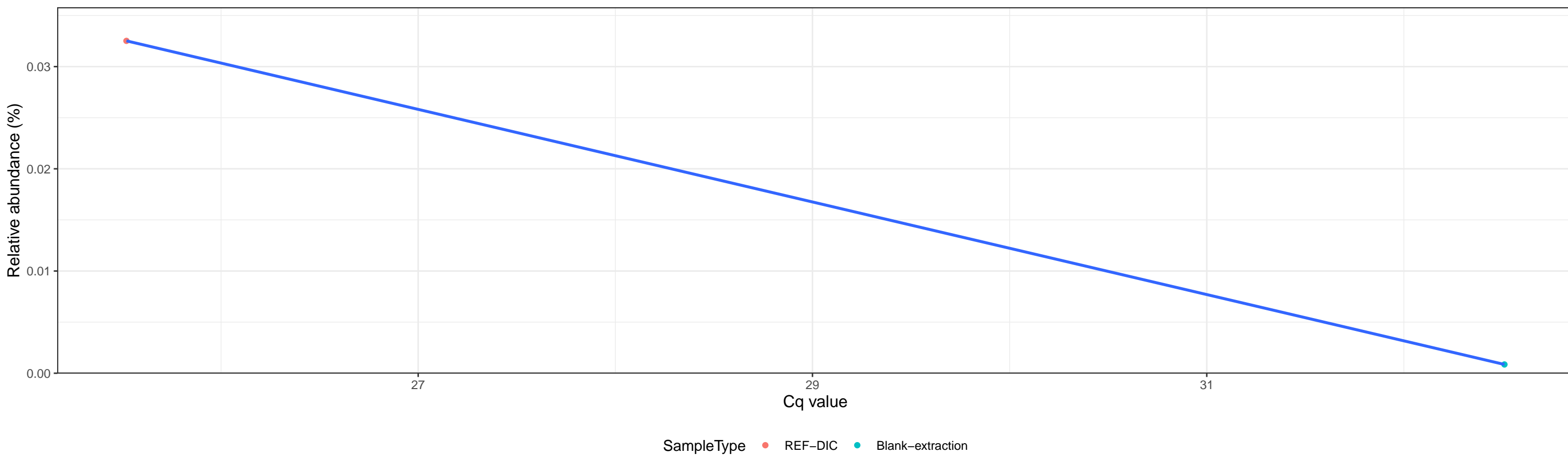


Correlation within the sample type: IM-DIC

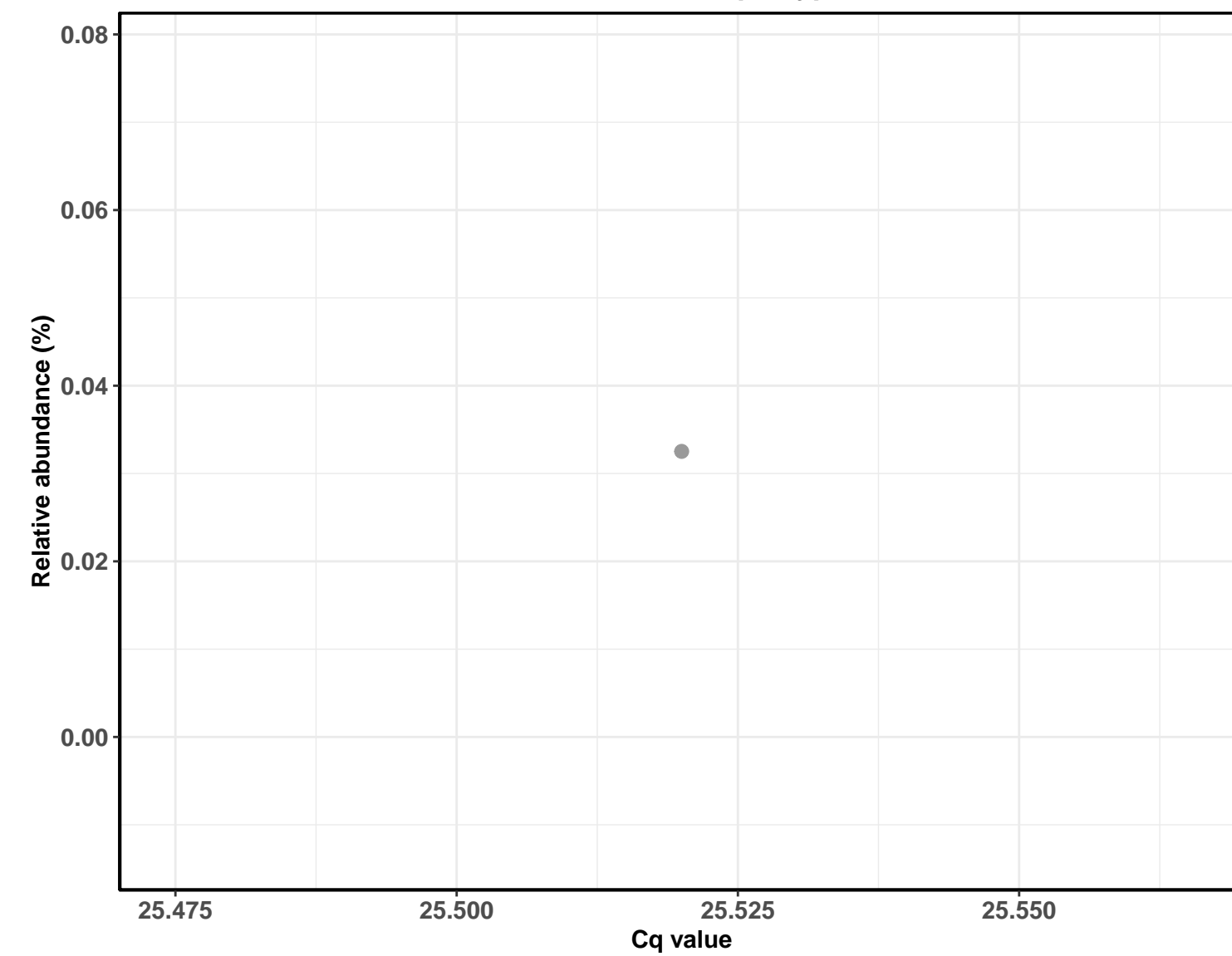


D\_0\_\_Bacteria; D\_1\_\_Actinobacteria; D\_2\_\_Actinobacteria; D\_3\_\_Corynebacteriales; D\_4\_\_Corynebacteriaceae; D\_5\_\_Corynebacterium 1; D\_6\_\_uncultured bacterium

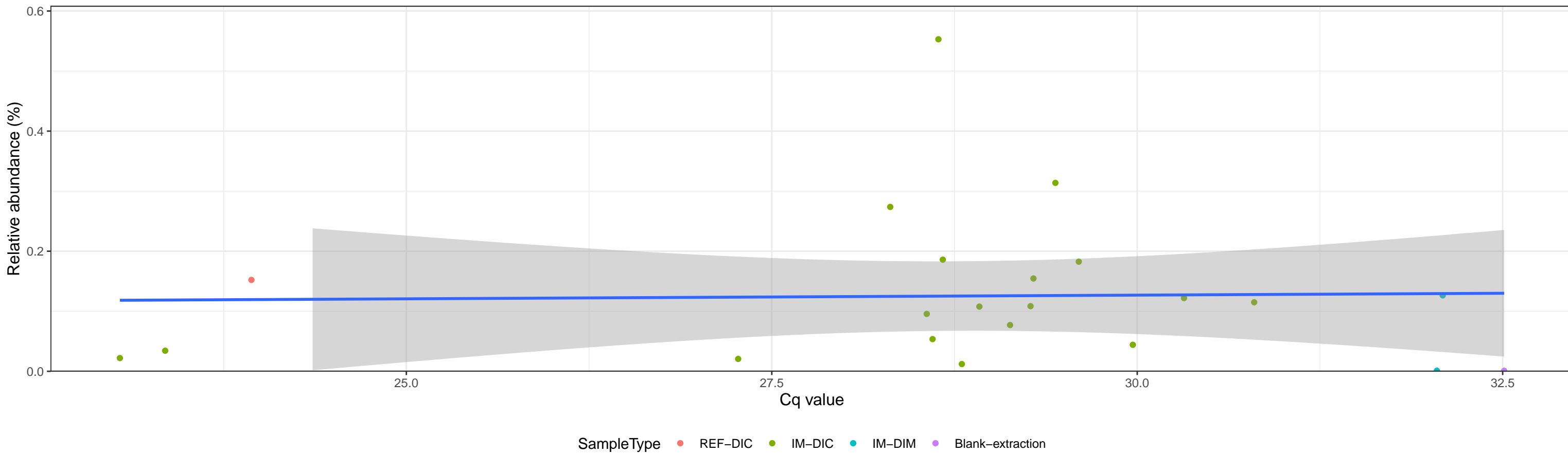
Correlation with all samples



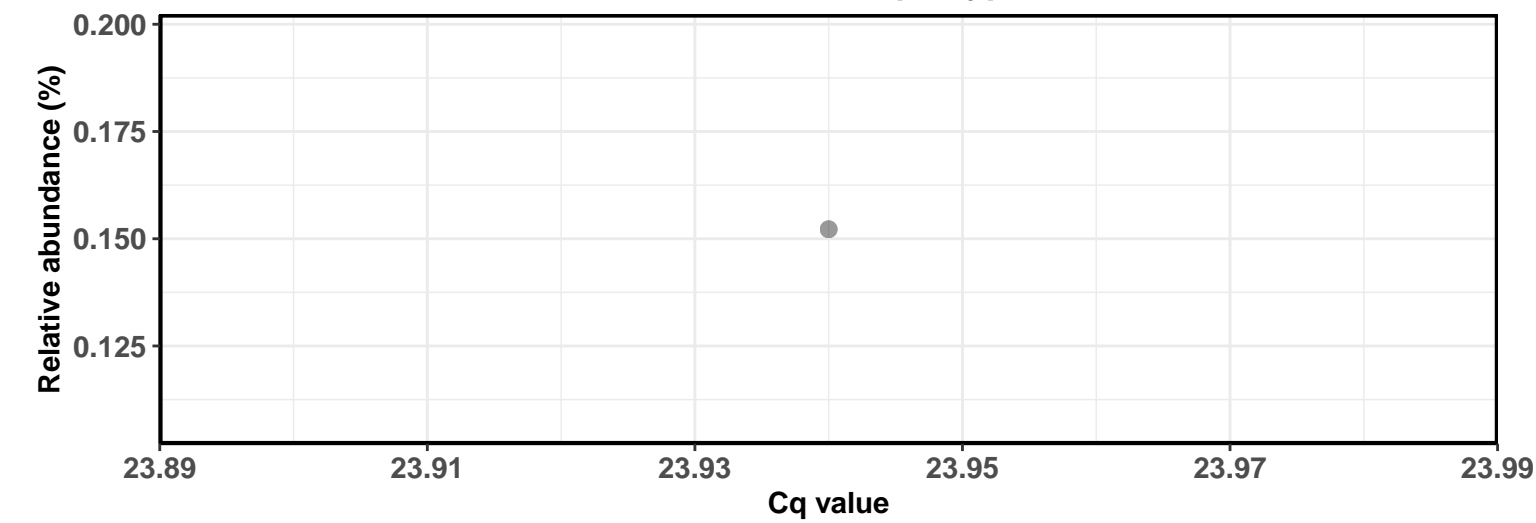
Correlation within the sample type: REF-DIC



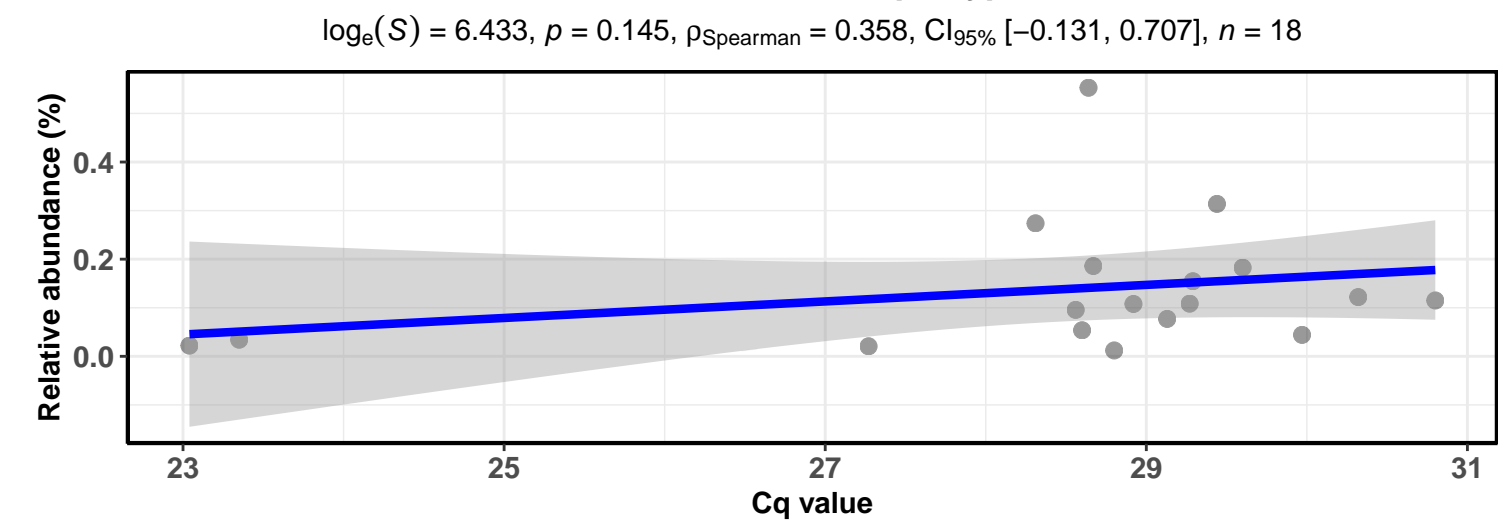
Correlation with all samples



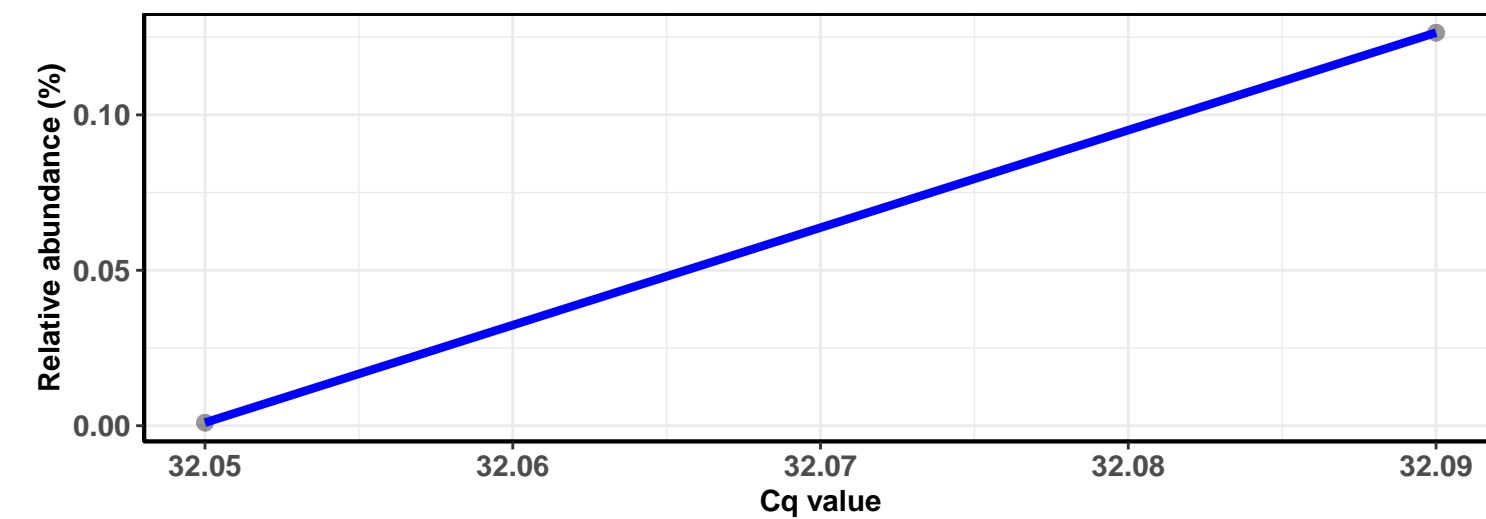
Correlation within the sample type: REF-DIC



Correlation within the sample type: IM-DIC

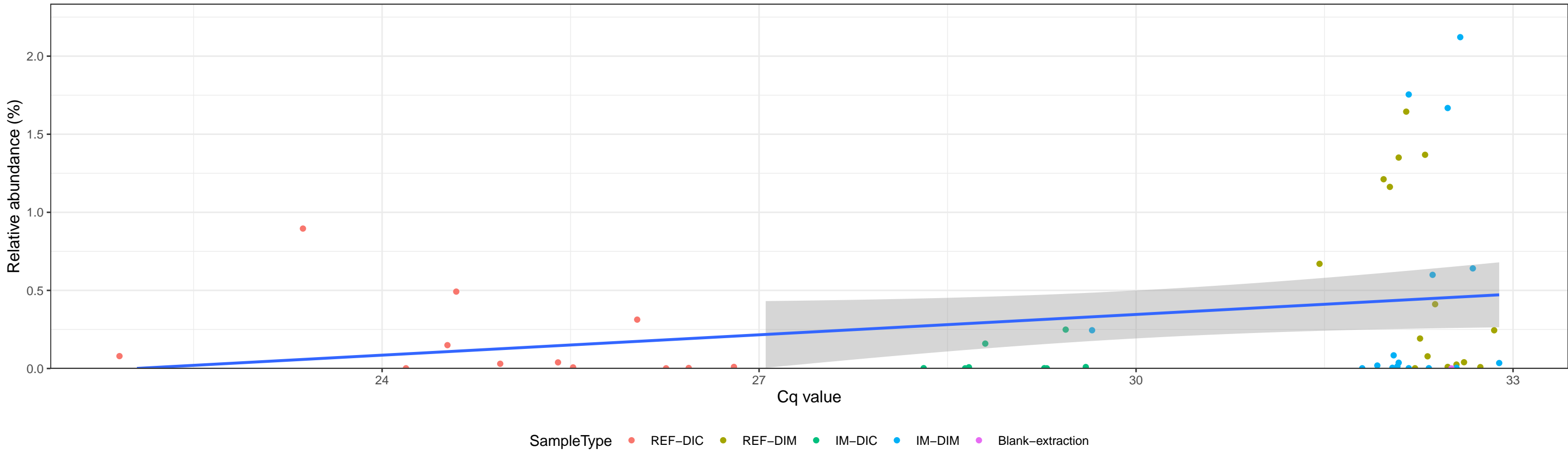


Correlation within the sample type: IM-DIM



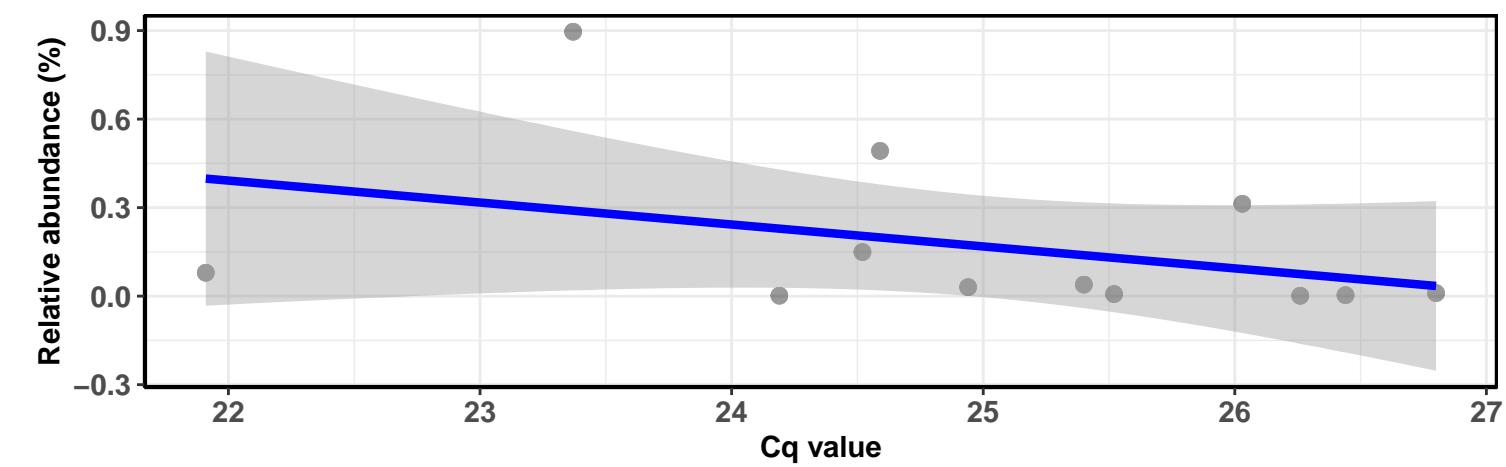
D\_0\_\_Bacteria; D\_1\_\_Spirochaetes; D\_2\_\_Spirochaetia; D\_3\_\_Brevinematales; D\_4\_\_Brevinemataceae; D\_5\_\_Brevinema; D\_6\_\_Brevinema andersonii

Correlation with all samples



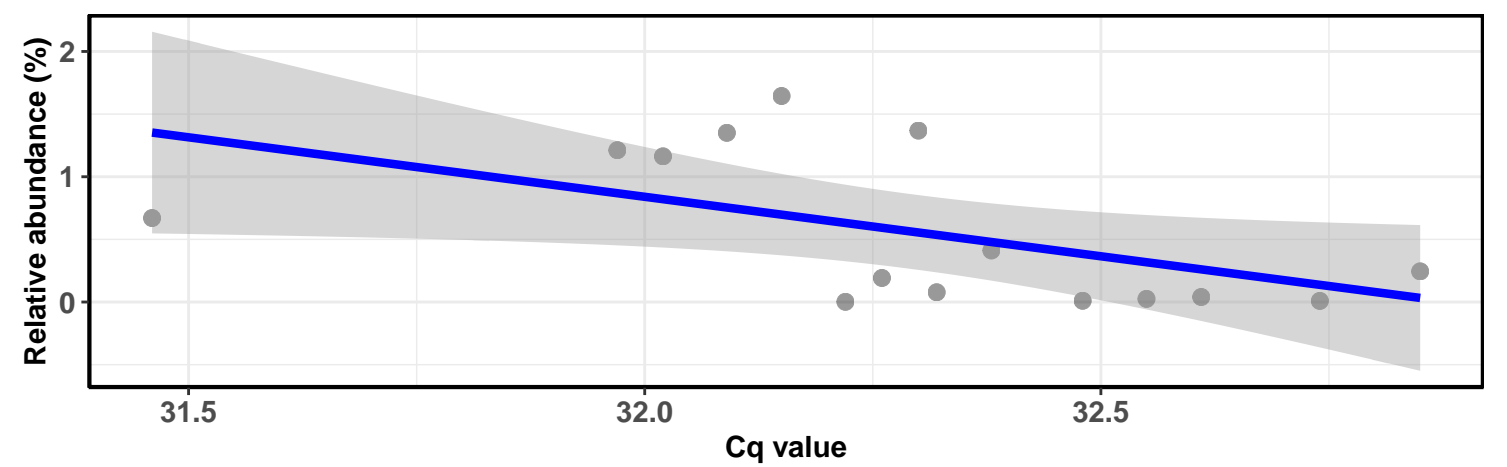
Correlation within the sample type: REF-DIC

$\log_e(S) = 6.045$ ,  $p = 0.118$ ,  $\rho_{\text{Spearman}} = -0.476$ ,  $CI_{95\%} [-0.824, 0.135]$ ,  $n = 12$



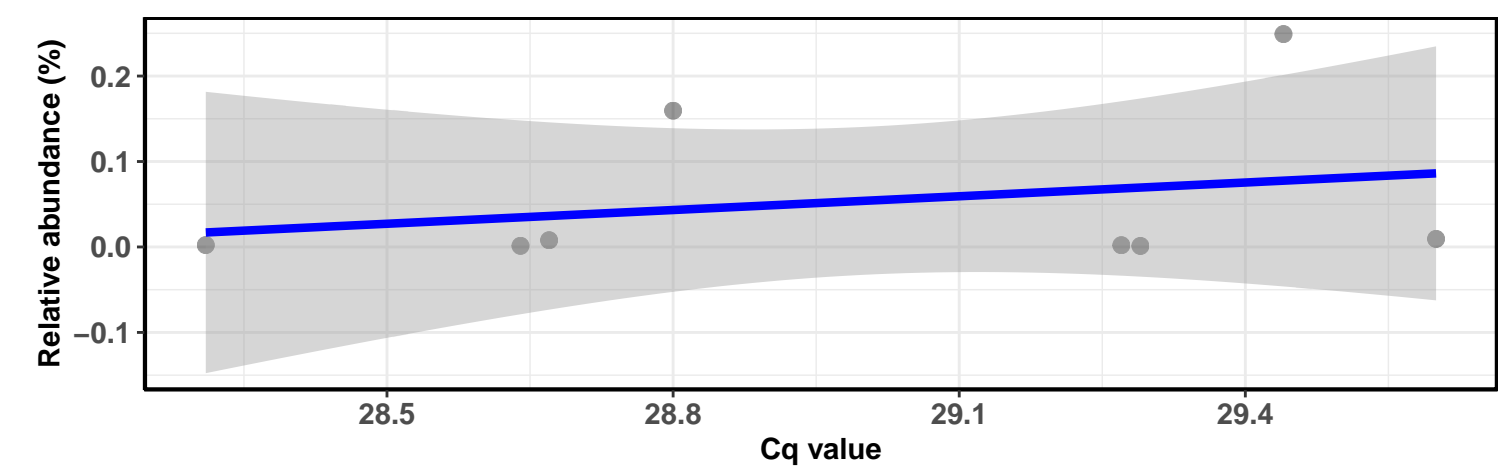
Correlation within the sample type: REF-DIM

$\log_e(S) = 6.782$ ,  $p = 0.025$ ,  $\rho_{\text{Spearman}} = -0.575$ ,  $CI_{95\%} [-0.840, -0.089]$ ,  $n = 15$



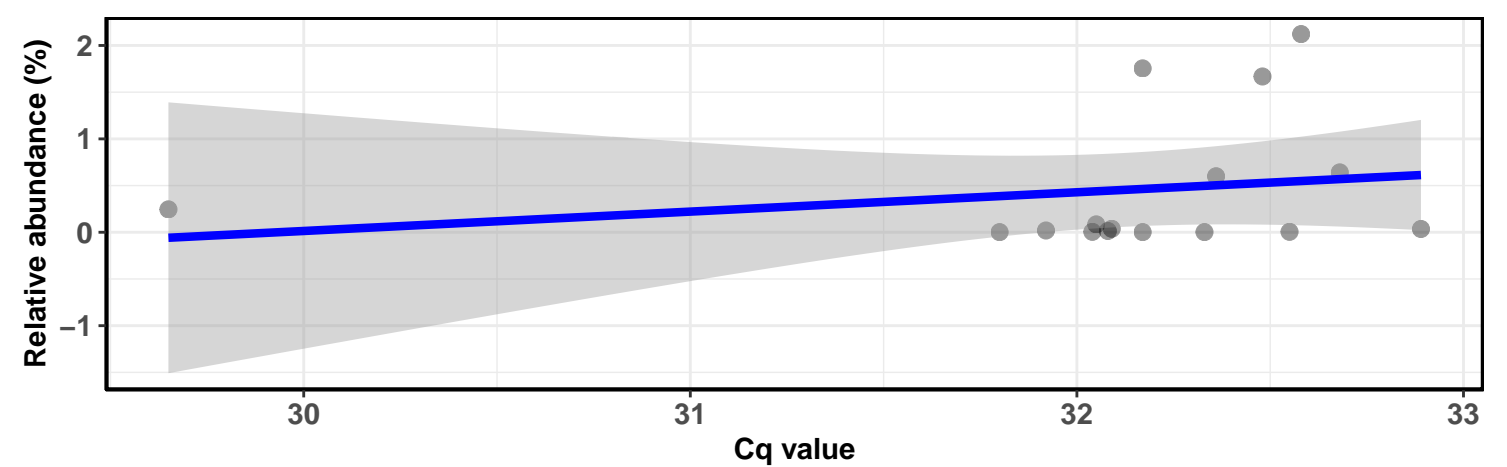
Correlation within the sample type: IM-DIC

$\log_e(S) = 4.025$ ,  $p = 0.420$ ,  $\rho_{\text{Spearman}} = 0.333$ ,  $CI_{95\%} [-0.485, 0.841]$ ,  $n = 8$



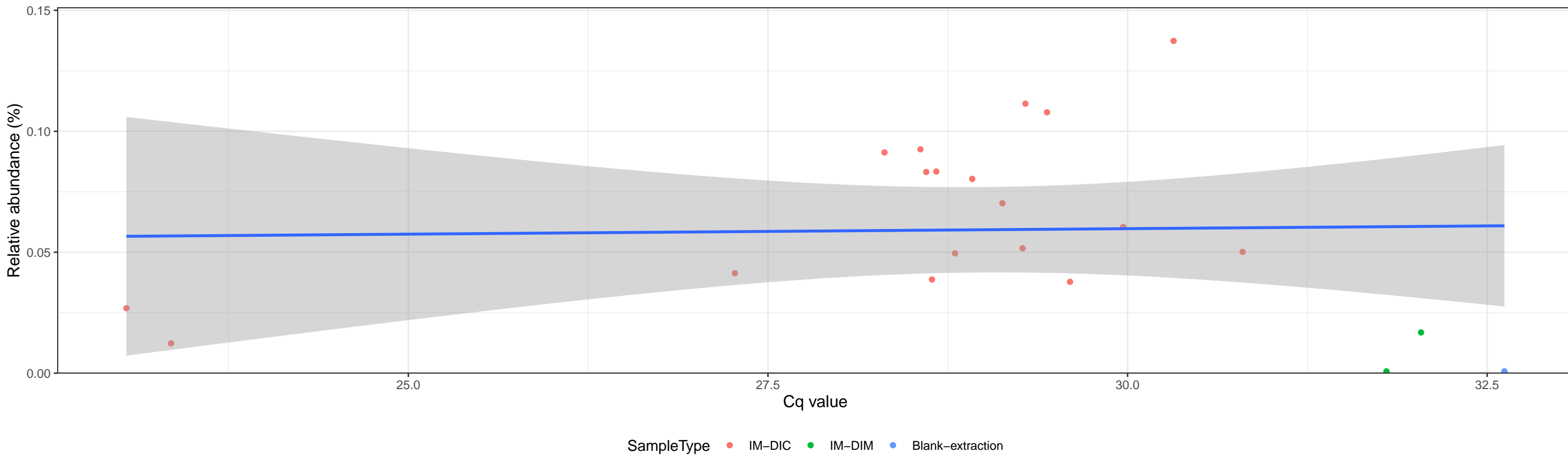
Correlation within the sample type: IM-DIM

$\log_e(S) = 6.042$ ,  $p = 0.145$ ,  $\rho_{\text{Spearman}} = 0.381$ ,  $CI_{95\%} [-0.141, 0.738]$ ,  $n = 16$



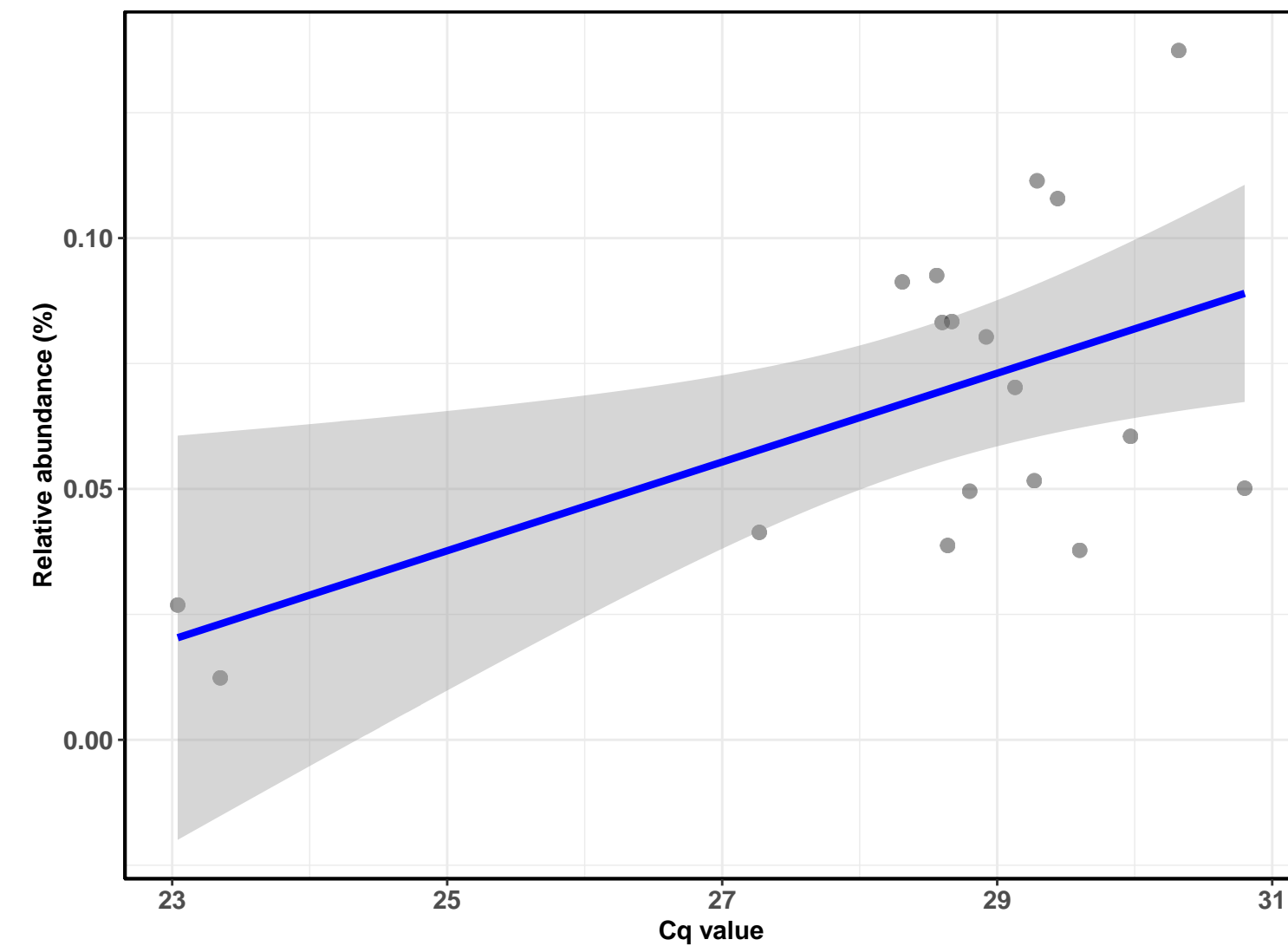
D\_0\_\_Bacteria; D\_1\_\_Firmicutes; D\_2\_\_Bacilli; D\_3\_\_Bacillales; D\_4\_\_Bacillaceae; D\_5\_\_Gracilibacillus; Ambiguous\_taxa

Correlation with all samples

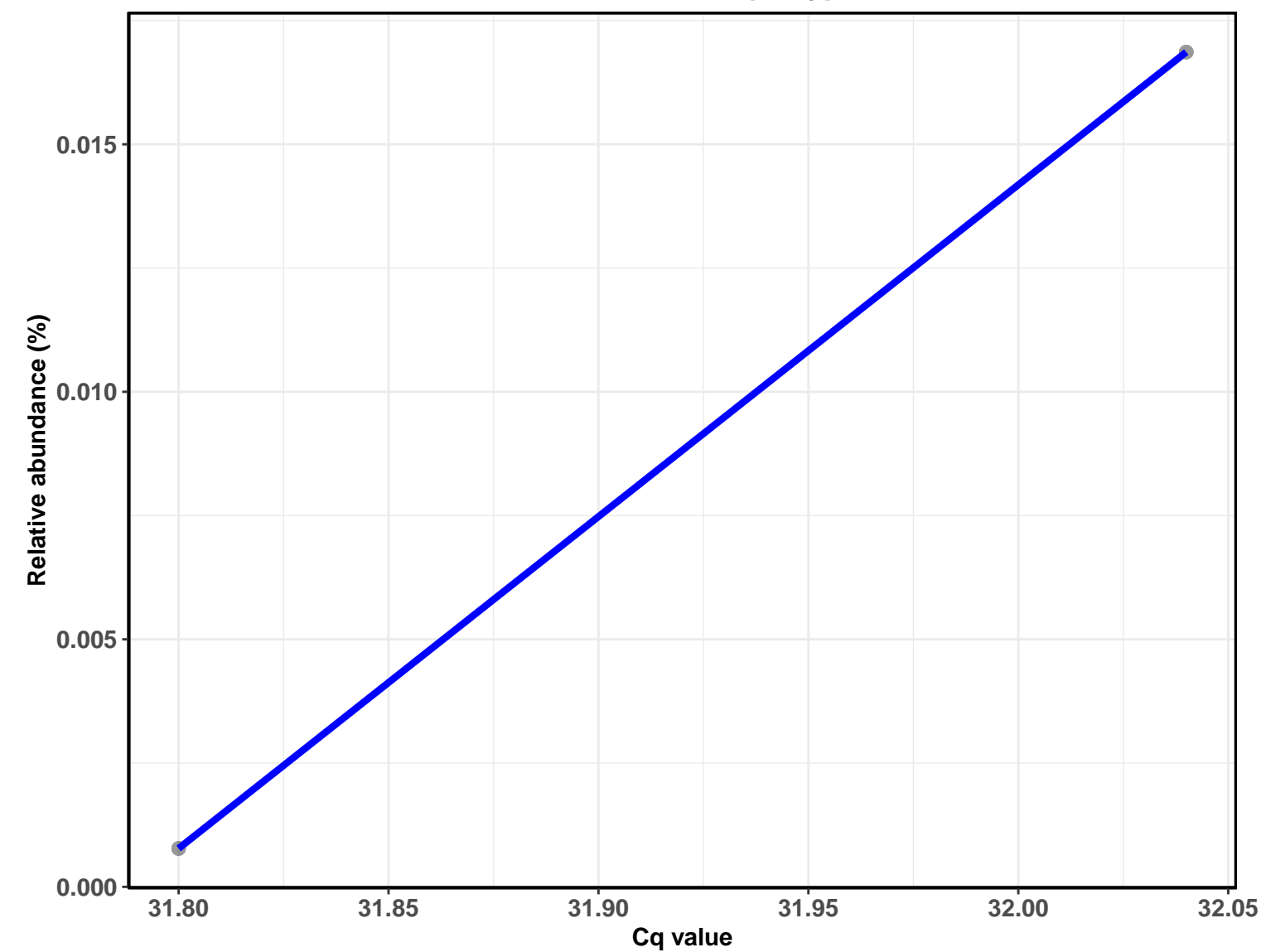


Correlation within the sample type: IM-DIC

$\log_e(S) = 6.458$ ,  $p = 0.165$ ,  $\rho_{\text{Spearman}} = 0.342$ ,  $CI_{95\%} [-0.149, 0.697]$ ,  $n = 18$

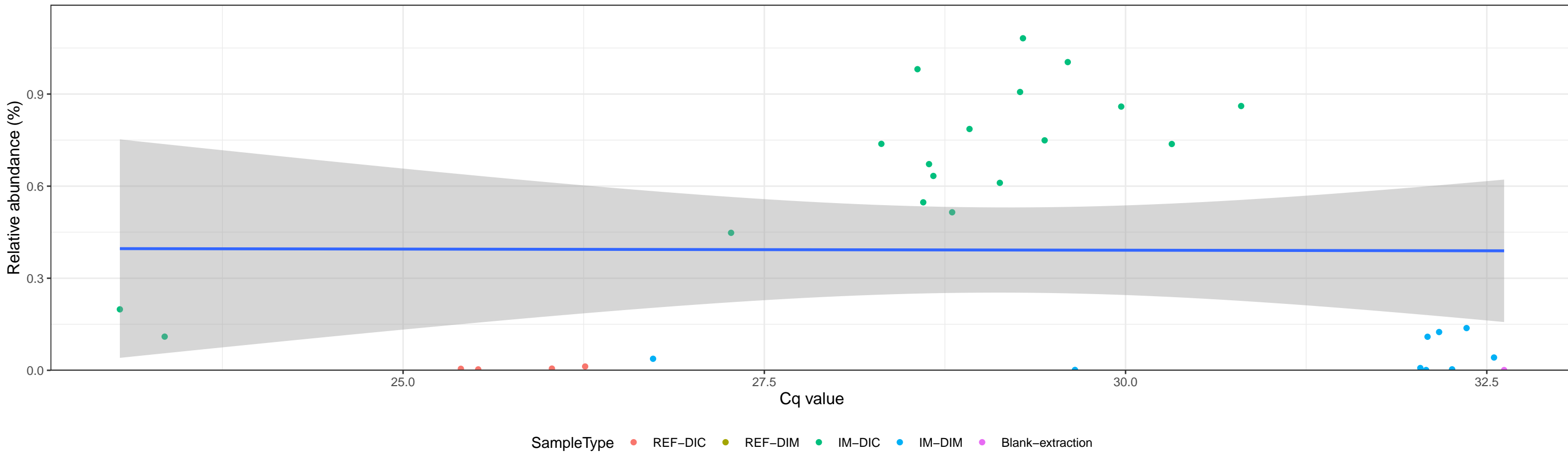


Correlation within the sample type: IM-DIM

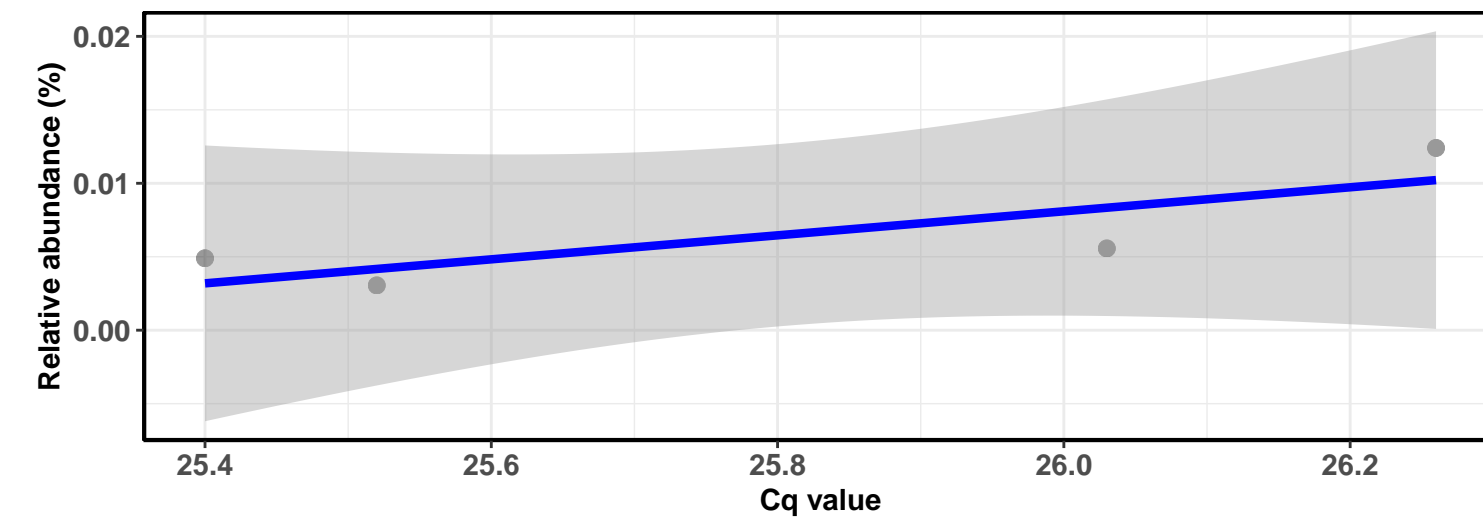


D\_0\_\_Bacteria; D\_1\_\_Firmicutes; D\_2\_\_Bacilli; D\_3\_\_Bacillales; D\_4\_\_Bacillaceae; D\_5\_\_Oceanobacillus; D\_6\_\_Oceanobacillus caeni

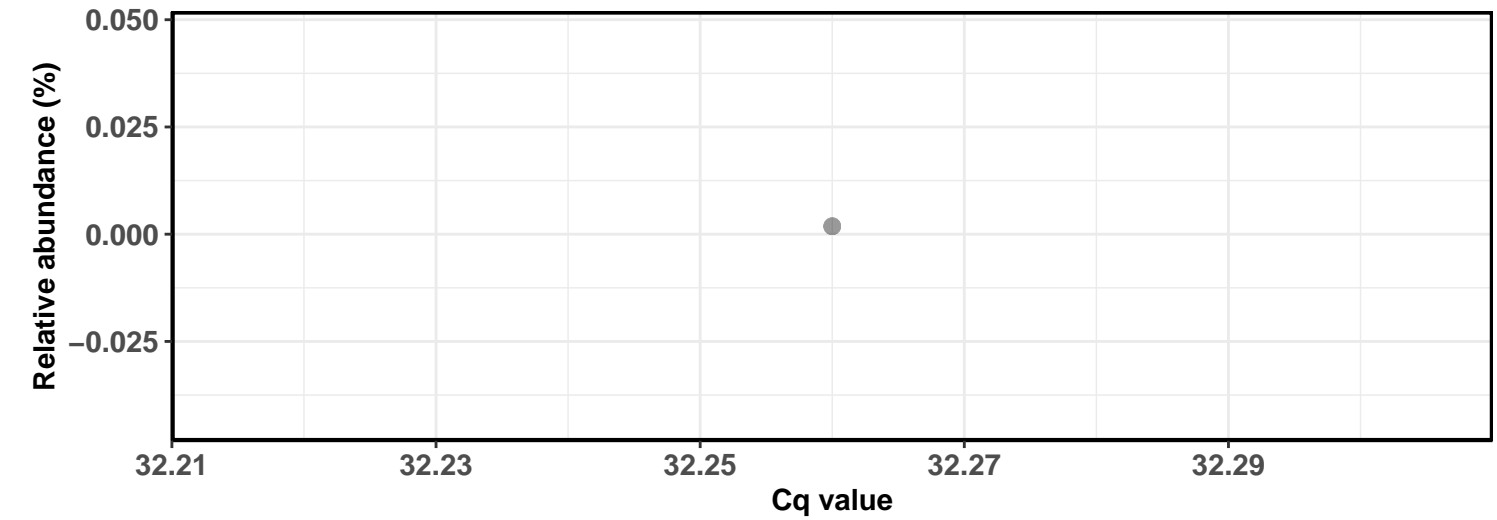
Correlation with all samples



Correlation within the sample type: REF-DIC

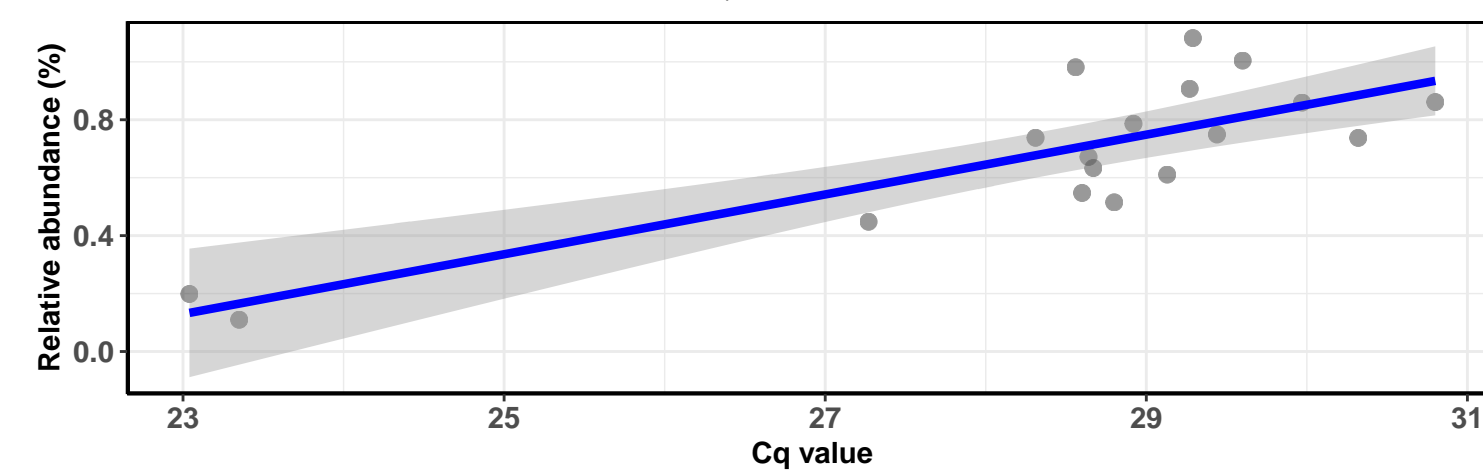


Correlation within the sample type: REF-DIM



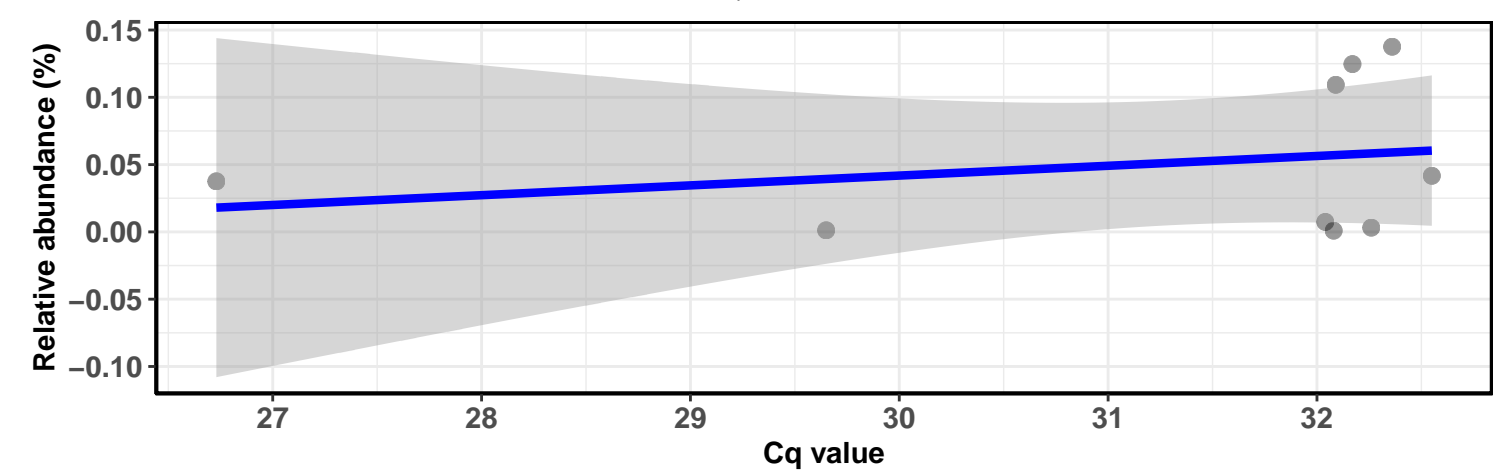
Correlation within the sample type: IM-DIC

$\log_e(S) = 5.864$ ,  $p = 0.004$ ,  $\rho_{\text{Spearman}} = 0.637$ ,  $CI_{95\%} [0.242, 0.851]$ ,  $n = 18$



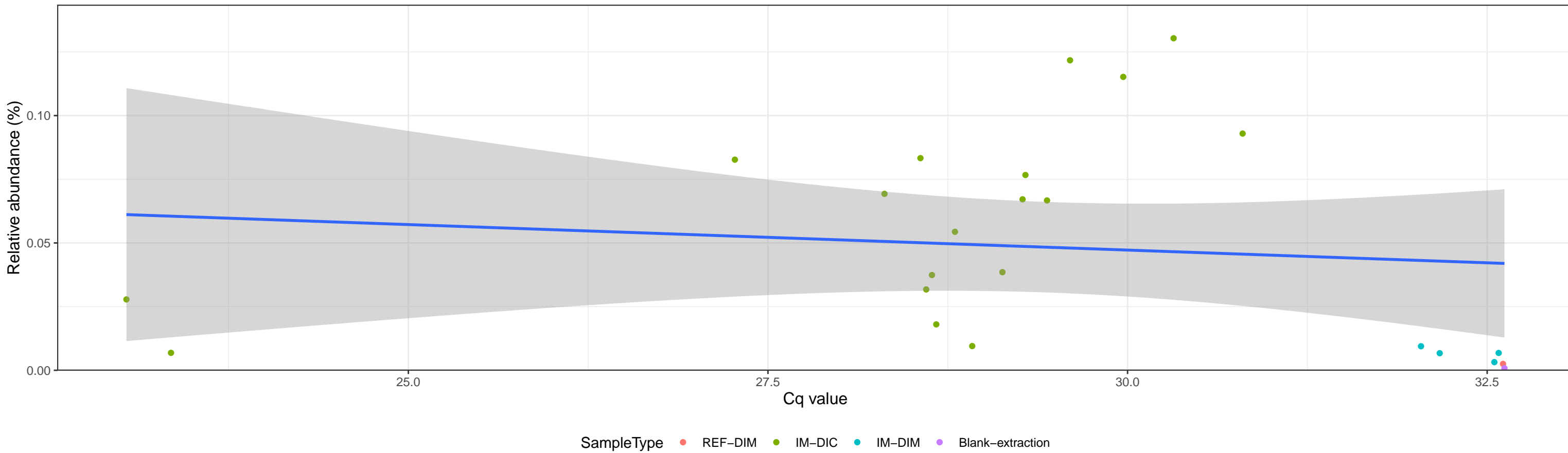
Correlation within the sample type: IM-DIM

$\log_e(S) = 4.094$ ,  $p = 0.170$ ,  $\rho_{\text{Spearman}} = 0.500$ ,  $CI_{95\%} [-0.246, 0.874]$ ,  $n = 9$

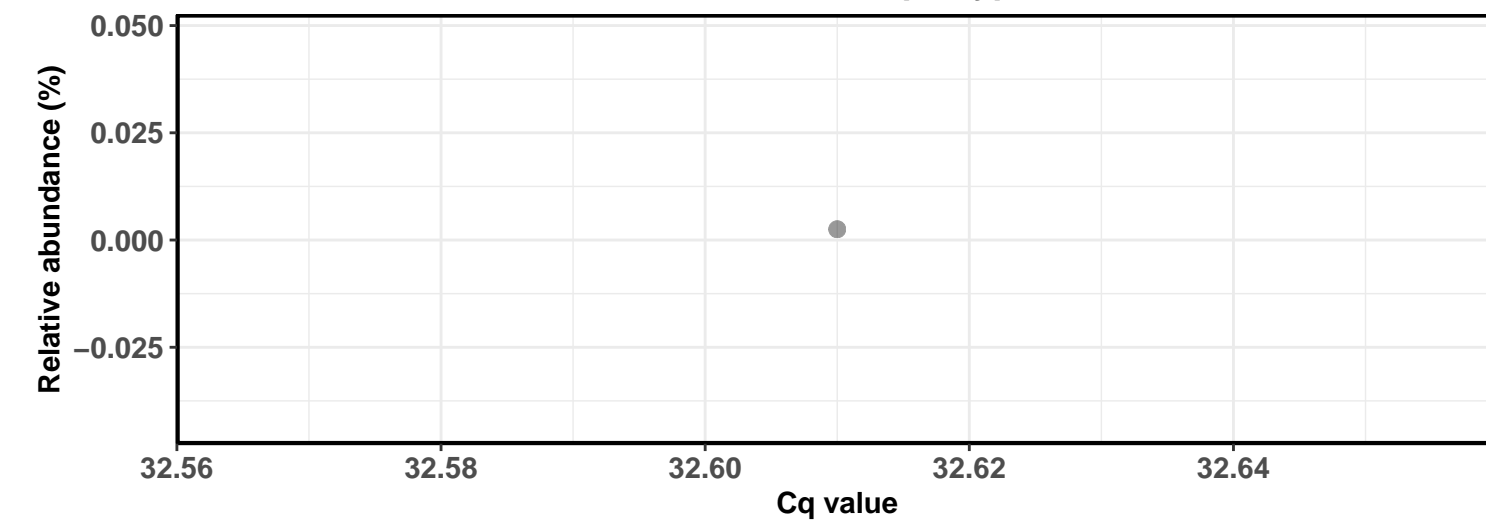


D\_0\_\_Bacteria; D\_1\_\_Firmicutes; D\_2\_\_Bacilli; D\_3\_\_Bacillales; D\_4\_\_Bacillaceae; D\_5\_\_Oceanobacillus; Ambiguous\_taxa

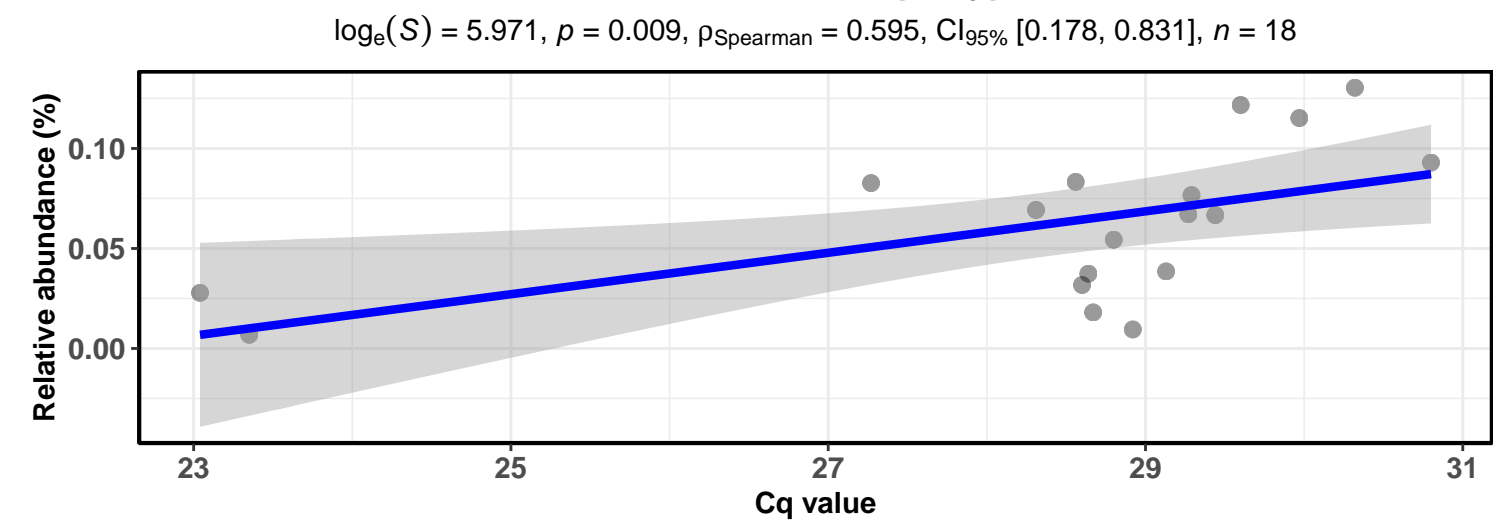
Correlation with all samples



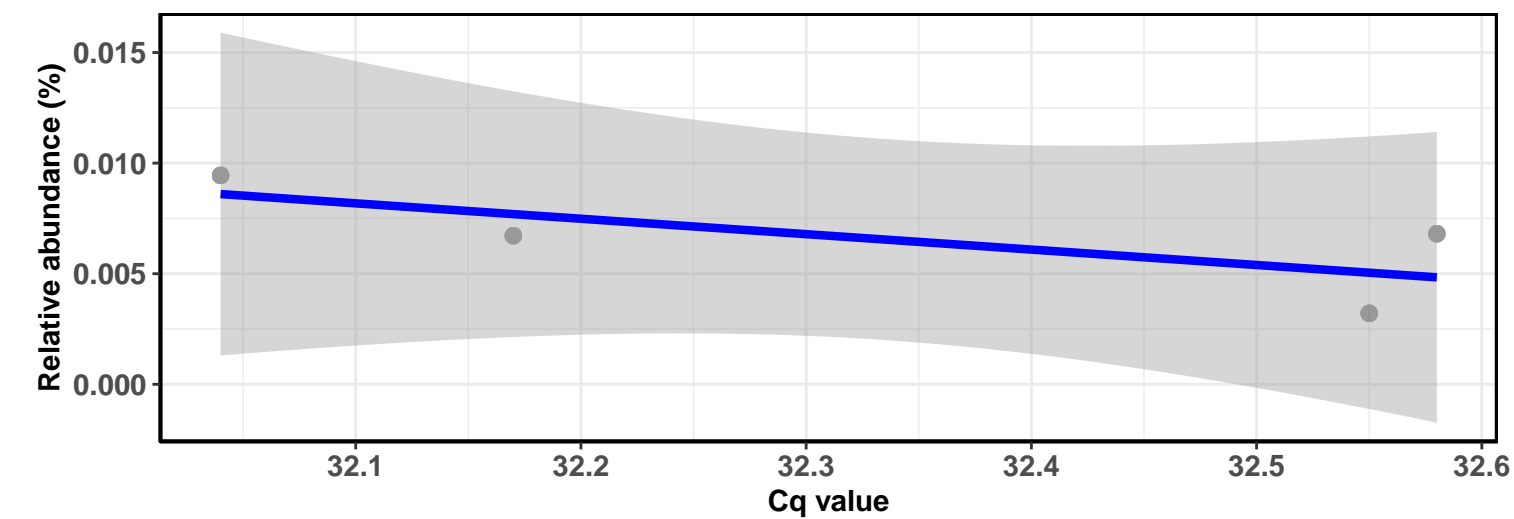
Correlation within the sample type: REF-DIM



Correlation within the sample type: IM-DIC

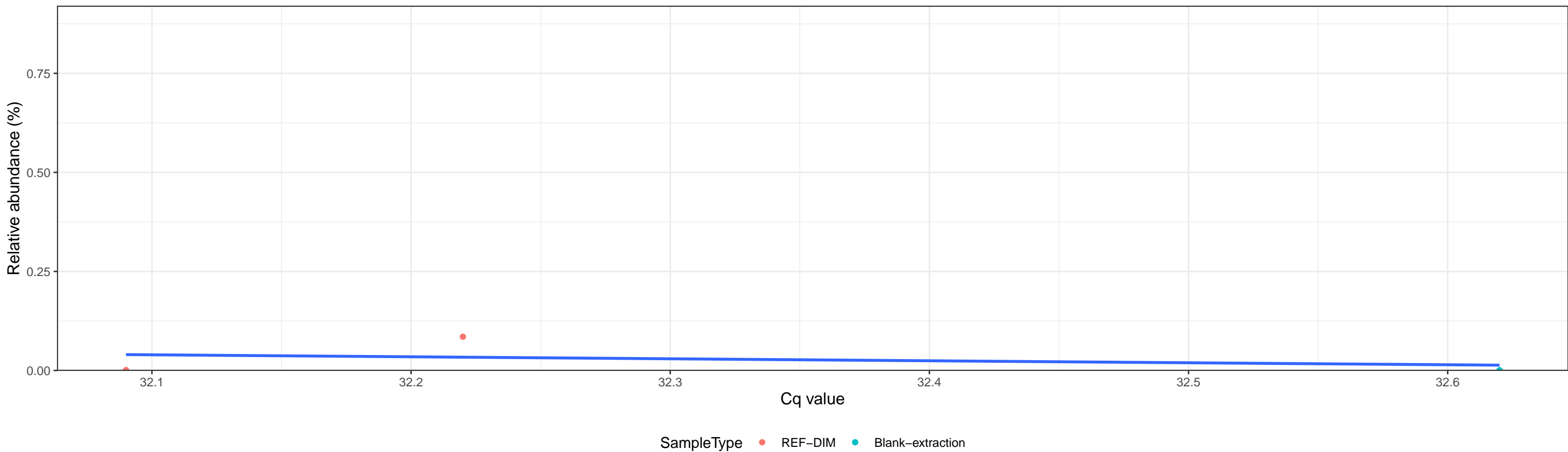


Correlation within the sample type: IM-DIM



D\_0\_\_Bacteria; D\_1\_\_Actinobacteria; D\_2\_\_Actinobacteria; D\_3\_\_Propionibacteriales; D\_4\_\_Propionibacteriaceae; D\_5\_\_Cutibacterium

Correlation with all samples



Correlation within the sample type: REF-DIM

