## Eukaryota - Correlation of amino acid frequency and proteome factors for genetic code: Echinoderm-flatworm mitochondrial

|                   | Pearson correlation coefficient |            |            |                 |               | Spearman correlation coefficient |        |            |                 |  | <b>-</b> 1.00 |
|-------------------|---------------------------------|------------|------------|-----------------|---------------|----------------------------------|--------|------------|-----------------|--|---------------|
| ∑ -               | -0.1                            | -0.18      | 0.18       | 0.18            | Σ-            | -0.26                            | -0.13  | 0.13       | 0.13            |  | - 1.00        |
| ≥ -               | 0.08                            | 0.2        | 0.17       | 0.13            | ≥ -           | 0.15                             | 0.21   | 0.17       | 0.11            |  |               |
| <b>U</b> -        | -0.08                           | 0.013      | 0.086      | 0.088           | <b>U</b> -    | -0.076                           | -0.057 | 0.17       | 0.21            |  | - 0.75        |
| Δ-                | 0.17                            | 0.067      | 0.0041     | -0.015          | Δ-            | 0.43                             | 0.056  | -0.02      | -0.071          |  |               |
| ш -               | 0.08                            | 0.001      | 0.008      | 0.0085          | ш -           | 0.15                             | -0.059 | -0.024     | -0.017          |  | 0.50          |
| ш-                | -0.13                           | -0.33      | 0.33       | 0.33            | ц-            | -0.12                            | -0.38  | 0.38       | 0.38            |  | - 0.50        |
| Ι-                | 0.08                            | 0.13       | 0.23       | 0.21            | ェ -           | 0.16                             | 0.17   | 0.24       | 0.19            |  |               |
| ⊻ -               | -0.17                           | -0.41      | 0.37       | 0.38            | ⊻ -           | -0.19                            | -0.37  | 0.37       | 0.37            |  | - 0.25        |
| z -               | -0.063                          | -0.59      | 0.61       | 0.61            | <b>z</b> -    | 0.039                            | -0.57  | 0.57       | 0.57            |  |               |
| acid<br>Q         | 0.12                            | 0.27       | 0.091      | 0.027           | σ-            | 0.17                             | 0.28   | 0.097      | -0.0051         |  | 0.00          |
| Amino acid<br>Y Q | -0.095                          | -0.28      | 0.28       | 0.28            | <b>&gt;</b> - | -0.037                           | -0.31  | 0.31       | 0.31            |  | - 0.00        |
|                   | -0.028                          | -0.62      | 0.63       | 0.63            | <b>-</b> -    | 0.0056                           | -0.61  | 0.61       | 0.61            |  |               |
| ∢ -               | 0.087                           | 0.64       | 0.64       | 0.64            | ∢ -           | 0.13                             | 0.62   | 0.62       | 0.62            |  | 0.25          |
| <b>ს</b> -        | -0.029                          | 0.28       | 0.28       | 0.28            | <b>ს</b> -    | 0.099                            | 0.33   | 0.33       | 0.33            |  |               |
| ۵ -               | 0.1                             | 0.34       | 0.34       | 0.34            | - ۵           | 0.26                             | 0.36   | 0.36       | 0.36            |  | 0.50          |
| ⊢ -               | 0.046                           | 0.17       | 0.067      | 0.027           | <b>-</b> -    | 0.06                             | 0.16   | 0.071      | 0.015           |  | 0.50          |
| > -               | 0.025                           | 0.2        | 0.11       | 0.066           | > -           | -0.041                           | 0.2    | 0.017      | 0.011           |  |               |
|                   | 0.012                           | -0.14      | 0.14       | 0.14            |               | -0.1                             | -0.096 | 0.096      | 0.096           |  | 0.75          |
| ∝ -               | 0.15                            | 0.31       | 0.29       | 0.29            | ∝ -           | 0.19                             | 0.33   | 0.33       | 0.33            |  |               |
| <b>ν</b> -        | 0.053                           | 0.071      | 0.048      | 0.031           | ა -           | 0.14                             | 0.032  | 0.1        | 0.065           |  | 1.00          |
|                   | Length -                        | - <u>9</u> | - Codon+GC | Codon+GC+Cost - |               | Length -                         | - O9   | Codon+GC - | Codon+GC+Cost - |  | 1.00          |

Factor

Factor