## Horvath Model 1

|  | Estimate | Standard Error | t value | Pr(>|t|) |  |
| --- | --- | --- | --- | --- | --- |
| (Intercept) | -0.565 | 0.734 | -0.770 | 0.4435 |  |
| group\_factorDouble Exposed | -0.003 | 0.902 | -0.004 | 0.9970 |  |
| group\_factorSingle Exposed | 0.165 | 0.894 | 0.184 | 0.8542 |  |
| bio\_sexMale | 1.032 | 0.732 | 1.409 | 0.1624 |  |
| PC1 | -0.013 | 0.036 | -0.367 | 0.7143 |  |
| *Signif. codes: 0 <= '\*\*\*' < 0.001 < '\*\*' < 0.01 < '\*' < 0.05* | | | | | |
|  | | | | | |
| Residual standard error: 3.487 on 86 degrees of freedom | | | | | |
| Multiple R-squared: 0.02376, Adjusted R-squared: -0.02164 | | | | | |
| F-statistic: 0.5233 on 86 and 4 DF, p-value: 0.7188 | | | | | |

## Horvath Model 2

|  | Estimate | Standard Error | t value | Pr(>|t|) |  |
| --- | --- | --- | --- | --- | --- |
| (Intercept) | -0.916 | 0.977 | -0.937 | 0.3513 |  |
| ace\_total | 0.089 | 0.163 | 0.547 | 0.5861 |  |
| group\_factorDouble Exposed | -0.300 | 1.055 | -0.284 | 0.7771 |  |
| group\_factorSingle Exposed | -0.003 | 0.949 | -0.003 | 0.9977 |  |
| bio\_sexMale | 1.044 | 0.736 | 1.418 | 0.1597 |  |
| PC1 | -0.013 | 0.036 | -0.350 | 0.7272 |  |
| *Signif. codes: 0 <= '\*\*\*' < 0.001 < '\*\*' < 0.01 < '\*' < 0.05* | | | | | |
|  | | | | | |
| Residual standard error: 3.501 on 85 degrees of freedom | | | | | |
| Multiple R-squared: 0.02718, Adjusted R-squared: -0.03004 | | | | | |
| F-statistic: 0.475 on 85 and 5 DF, p-value: 0.7939 | | | | | |

## Hannum Model 1

|  | Estimate | Standard Error | t value | Pr(>|t|) |  |
| --- | --- | --- | --- | --- | --- |
| (Intercept) | 0.774 | 0.936 | 0.827 | 0.4103 |  |
| group\_factorDouble Exposed | -1.500 | 1.150 | -1.305 | 0.1954 |  |
| group\_factorSingle Exposed | -1.056 | 1.140 | -0.926 | 0.3568 |  |
| bio\_sexMale | 0.161 | 0.934 | 0.173 | 0.8633 |  |
| PC1 | 0.090 | 0.045 | 1.992 | 0.0496 | \* |
| *Signif. codes: 0 <= '\*\*\*' < 0.001 < '\*\*' < 0.01 < '\*' < 0.05* | | | | | |
|  | | | | | |
| Residual standard error: 4.445 on 86 degrees of freedom | | | | | |
| Multiple R-squared: 0.06622, Adjusted R-squared: 0.02278 | | | | | |
| F-statistic: 1.525 on 86 and 4 DF, p-value: 0.2022 | | | | | |

## Hannum Model 2

|  | Estimate | Standard Error | t value | Pr(>|t|) |  |
| --- | --- | --- | --- | --- | --- |
| (Intercept) | 0.560 | 1.247 | 0.449 | 0.6548 |  |
| ace\_total | 0.055 | 0.208 | 0.263 | 0.7934 |  |
| group\_factorDouble Exposed | -1.682 | 1.347 | -1.249 | 0.2152 |  |
| group\_factorSingle Exposed | -1.159 | 1.211 | -0.957 | 0.3414 |  |
| bio\_sexMale | 0.168 | 0.939 | 0.179 | 0.8581 |  |
| PC1 | 0.091 | 0.046 | 1.988 | 0.0501 | . |
| *Signif. codes: 0 <= '\*\*\*' < 0.001 < '\*\*' < 0.01 < '\*' < 0.05* | | | | | |
|  | | | | | |
| Residual standard error: 4.469 on 85 degrees of freedom | | | | | |
| Multiple R-squared: 0.06697, Adjusted R-squared: 0.01209 | | | | | |
| F-statistic: 1.22 on 85 and 5 DF, p-value: 0.3067 | | | | | |

## PhenoAge Model 1

|  | Estimate | Standard Error | t value | Pr(>|t|) |  |
| --- | --- | --- | --- | --- | --- |
| (Intercept) | -0.086 | 1.063 | -0.081 | 0.9360 |  |
| group\_factorDouble Exposed | 1.045 | 1.306 | 0.801 | 0.4255 |  |
| group\_factorSingle Exposed | -0.856 | 1.294 | -0.661 | 0.5103 |  |
| bio\_sexMale | 0.066 | 1.060 | 0.062 | 0.9508 |  |
| PC1 | 0.244 | 0.052 | 4.733 | 0.0000 | \*\*\* |
| *Signif. codes: 0 <= '\*\*\*' < 0.001 < '\*\*' < 0.01 < '\*' < 0.05* | | | | | |
|  | | | | | |
| Residual standard error: 5.048 on 86 degrees of freedom | | | | | |
| Multiple R-squared: 0.2146, Adjusted R-squared: 0.178 | | | | | |
| F-statistic: 5.873 on 86 and 4 DF, p-value: 0.0003 | | | | | |

## PhenoAge Model 2

|  | Estimate | Standard Error | t value | Pr(>|t|) |  |
| --- | --- | --- | --- | --- | --- |
| (Intercept) | -0.495 | 1.415 | -0.350 | 0.7274 |  |
| ace\_total | 0.104 | 0.236 | 0.441 | 0.6604 |  |
| group\_factorDouble Exposed | 0.699 | 1.529 | 0.458 | 0.6484 |  |
| group\_factorSingle Exposed | -1.051 | 1.374 | -0.765 | 0.4463 |  |
| bio\_sexMale | 0.079 | 1.066 | 0.074 | 0.9410 |  |
| PC1 | 0.245 | 0.052 | 4.722 | 0.0000 | \*\*\* |
| *Signif. codes: 0 <= '\*\*\*' < 0.001 < '\*\*' < 0.01 < '\*' < 0.05* | | | | | |
|  | | | | | |
| Residual standard error: 5.072 on 85 degrees of freedom | | | | | |
| Multiple R-squared: 0.2163, Adjusted R-squared: 0.1703 | | | | | |
| F-statistic: 4.693 on 85 and 5 DF, p-value: 0.0008 | | | | | |