1. Difference in correlation

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| t1 to t2 | Between ß at t1 and ß at t2 | Between ß at t1 and Gmax at t1 | Between ß at t1 and Gmax at t2 | winner |
| NKBS to NKLS |  |  | 0.023 | Gmax at t1 |
| NKLS to Tewkesbury |  |  | 0.120 | Gmax at t1 |
| Tewkesbury to Upper Kai-Iwi |  |  | -0.162 | Gmax at t1 |
| Upper Kai-Iwi to Tainui |  |  | -0.110 | Gmax at t1 |
| Tainui to SHCSBSB |  |  | 0.145 | Gmax at t1 |
| SHCSBSB to modern |  |  | -0.200 | Gmax at t1 |

Closer to 1, more correlated

ANGLES:

|  |  |  |  |
| --- | --- | --- | --- |
| t1 to t2 | Between Gmax at t1 and Gmax at t2 | Between ß at t1 and Gmax at t2 | winner |
| NKBS to NKLS | 7.41 | 88.71 | Gmax at t1 |
| NKLS to Tewkesbury | 6.85 | 83.13 | Gmax at t1 |
| Tewkesbury to Upper Kai-Iwi | 21.42 | 99.35 | Gmax at t1 |
| Upper Kai-Iwi to Tainui | 33.89 | 83.71 | Gmax at t1 |
| Tainui to SHCSBSB | 28.06 | 81.66 | Gmax at t1 |
| SHCSBSB to modern | 61.58 | 78.5 | Gmax at t1 |

1. Gmax and magnitude ß

Linear model results for magnitude ß to reduction in correlation between Gmax and ß:

Intercept: 0.83

Slope: 0.00

p-value: 0.70

r2: 0.00

Linear model results for magnitude ß to reduction in correlation between Gmax and ß using the ANGLE:

Intercept: -34.34

Slope: 0.56

p-value: 0.09

r2: 0.45

1. Distance between g matrices and magnitude ß:

Intercept: 1.9

Slope: 0.00

p-value: 0.60

r2: 0.00