Practical 10 Finding

Result:

|  |  |  |  |
| --- | --- | --- | --- |
| Comparison | Human vs Mouse | Mouse vs Random | Human vs Random |
| BLOSUM score | 1490 | -348 | -702 |
| Percentage identity | 95.2% | 3.1% | 2.7% |

Conclusion:

In the comparison with random sequence, the BLOSUM scores and percentages identity for these two group are very low, so the result of comparison between human and mouse is unlikely to be caused by accident.The BLOSUM scores (1490) were higher and the percenttage identity is high in the comparison between mice and humans, therefore, we concluded that human and mouse genes encoding DLX5 protein were highly similar. In the process of biological evolution, the genes encoding specific proteins will not change greatly.