Table 1: Descriptive

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Characteristics | Mean | SD | Min | Max |
| pH | 7.12 | 0.72 | 6.30 | 12.50 |
| Temperature | 28.68 | 2.15 | 22.10 | 32.60 |
| Cy5 (1) | 35.97 | 2.78 | 25.45 | 39.48 |
| FAM (1) | 35.92 | 2.55 | 26.14 | 39.37 |
| Rox (1) | 35.74 | 2.54 | 26.28 | 40.85 |
| Cy5 (2) | 36.83 | 1.66 | 31.53 | 39.70 |
| FAM (2) | 36.32 | 1.93 | 32.11 | 39.73 |
| Rox (2) | 36.04 | 2.12 | 31.00 | 39.65 |

Table 2: Correlation (1)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | pH | Temperature | Cy5 (1) | FAM (1) | Rox (1) |
| pH | 1 | **0.221\*** | 0.151 | **0.272\*** | 0.165 |
| Temperature | **0.221\*** | 1 | **0.367\*** | **0.746\*** | **0.379\*** |
| Cy5 (1) | 0.151 | **0.367\*** | 1 | 0.237 | 0.189 |
| FAM (1) | **0.272\*** | **0.746\*** | 0.237 | 1 | **0.489\*** |
| Rox (1) | 0.165 | **0.379\*** | 0.189 | **0.489\*** | 1 |

*\*Statistically significant*

|  |
| --- |
|  |
| *pH & Temp* |

|  |
| --- |
|  |
| *Cy5 (1) & Temp* |

|  |
| --- |
|  |
| *FAM (1) & Temp* |

|  |
| --- |
|  |
| *Rox (1) & Temp* |

Table 2: Correlation (2)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | pH | Temperature | Cy5 (2) | FAM (2) | Rox (2) |
| pH | 1 | **0.221\*** | 0.051 | **0.233\*** | **0.258\*** |
| Temperature | **0.221\*** | 1 | -0.112 | **0.205\*** | 0.009 |
| Cy5 (2) | 0.051 | -0.112 | 1 | 0.194 | **0.407\*** |
| FAM (2) | **0.233\*** | **0.205\*** | 0.194 | 1 | **0.492\*** |
| Rox (2) | **0.258\*** | 0.009 | **0.407\*** | **0.493\*** | 1 |

*\*Statistically significant*

Table 3: Paired t-test

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Mean | Mean difference | t-statistics | p-value |
| Cy5 (1) | 35.97 | -0.55 | -1.347 | 0.184 |
| Cy5 (2) | 36.83 |
| FAM (1) | 35.92 | -0.56 | -1.330 | 0.189 |
| FAM (2) | 36.32 |
| Rox (1) | 35.74 | 0.06 | 0.125 | 0.901 |
| Rox (2) | 36.04 |

|  |
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|  |
| Fig 1: Division wise (1) |

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| --- |
|  |
| Fig 2: Division wise (2) |

|  |
| --- |
|  |
| Fig 3: Division wise (pH) |