Ben Weeks

Genetics BIO208 – Pre-Lab Assignment #2

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Due: 2/25/13

1. 1. Effects of the UV light on the yeast are (1) colony death, (2) irregular colony mutation, and (3) colored colony mutation.
   2. UV light can effect the DNA of the cell, or it’s organelles to a point causing apoptosis, causing a multitude of effects.
2. The completed table is as follows:

|  |  |  |
| --- | --- | --- |
| Length of UV Exposure | # of surviving Cells | % of surviving cells |
| 0 | 1540 | 100 |
| 10 | 1386 | 90 |
| 20 | 890 | 58 |
| 30 | 540 | 35 |
| 40 | 139 | 9 |
| 60 | 6 | 0.4 |

* 1. And it’s graph:
  2. Using the trend line, a 25 second exposure rate can be interpolated to have a survival percentage of: -21.829(3.5) + 125.13 = 48.7285 (with 0 being 1, 10 as 2, etc.)