

| | A | B | C | D | E | F | G | H | |
|----|--|----|---|---|-------------|---------|---|------------------|---|
| 2 | | | | | | | | | |
| 3 | Simulating a comparative experiment. | | | | | | | | |
| 4 | This worksheet allows you to simulate a simple experiment comparing control & treatment groups of animals. | | | | | | | | |
| 5 | You can change what the truth is. The experimental data and t-test will automatically change. You can add more | | | | | | | | |
| 6 | the number of animals. You can do another experiment by pressing the F9 key. | | | | | | | | |
| 7 | | | | | | | | | |
| 8 | | | | | | | | | |
| 9 | Truth | | | | Data | | | | |
| 10 | Control mean | 60 | | | Control | Treated | | | C |
| 11 | Treated mean | 80 | | | | | | Number | |
| 12 | Between animal St.Dev. | 15 | | | 61.13 | 90.90 | | Mean | |
| 13 | | | | | 72.00 | 81.12 | | St. Dev. | |
| 14 | | | | | 67.56 | 75.78 | | Pooled St.Dev. | |
| 15 | To change the number of animals: | | | | 47.09 | 87.29 | | St. Error. Diff. | |
| 16 | Use the mouse to highlight the data in one or both. | | | | 53.40 | 115.18 | | T-value | |
| 17 | columns. Position the mouse over the tiny square at | | | | 54.29 | 99.27 | | p-value | |
| 18 | the bottom right corner of the highlighted area. | | | | | | | | |
| 19 | Press the left mouse button, move the mouse up | | | | | | | St. Error Mean | |
| 20 | or down and release it. | | | | | | | Conf. Int. | |
| 21 | | | | | | | | | |
| 22 | | | | | | | | | |
| 23 | For help or more information, contact | | | | | | | | |
| 24 | Graham Horgan, BioSS | | | | | | | | |
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