S1 Table: Eight models fit to the data in Fig. 1A in order to determine which has the lowest AIC for model selection. The first model was selected based on AIC.

|  |  |
| --- | --- |
| **Model** | **AIC** |
| Toxins+log(Spores+1)+Toxins\*log(Spores+1) | 143.2 |
| Toxins+log(Spores+1) | 148.6 |
| Toxin+Spores+Toxins\*Spores | 191.9 |
| Toxins+Spores | 189.9 |
| log(Spores+1) | 171.8 |
| Spores | 211.6 |
| Toxins | 211.1 |
| 1 | 232.7 |

S2 Table: Parameters of the best logistic model fit to data in Fig. 1A (y~Toxins+log(Spores+1)+Toxins\*log(Spores+1)).

|  |  |  |  |
| --- | --- | --- | --- |
| **Parameters** | ***Β*** | **S.E.** | **p-value** |
| Intercept | -1.99 | 0.37 | 8.34e-08 |
| Toxins | 0.013 | 0.0028 | 4.90e-06 |
| Log(Spores+1) | 0.37 | 0.063 | 6.62e-09 |
| Toxins\*Log(Spores+1) | -0.0013 | 0.00047 | 6.75e-03 |