Response and Variance Pattern Functions

Statistical Analysis

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## Response Pattern Equations

The response function is defined differently for each pattern type:

### Decreasing Response

### Non-monotonic Response

### Threshold Response

### Oscillating Response

### No Response

Where:

* is the dose
* is the maximum dose
* is the mean of the dose range
* is the maximum effect
* is the frequency (set to 1)
* is the threshold dose

## Variance Pattern Equations

The variance at dose level is defined as follows:

### Homogeneous Variance

### Increasing Variance

### Decreasing Variance

### V-shaped Variance

Where:

* is the dose level index (1 to n)
* is the number of dose levels
* is the base variance (default = 4)
* represents the ceiling of n/2 (mid-point)