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ES/RP 531 Fundamentals of Environmental Toxicology

Lecture 6 Dose-Response Relationships





Probit Transformation-Linearization of the Dose-Response Curve





Important Information Contained in the Slope of the Dose-Response Curve



Importance of Slope

- Represents variability in population response
- Characterizes margin of safety
- Response of different species exhibiting same median response to same chemical



Importance of Slope

- Variation in response of two different species reacting to the same chemical
- Variation in response of single species reacting to two different chemicals







Azinphos-methyl Dose-Response

Methoxyfenozide Dose-Response