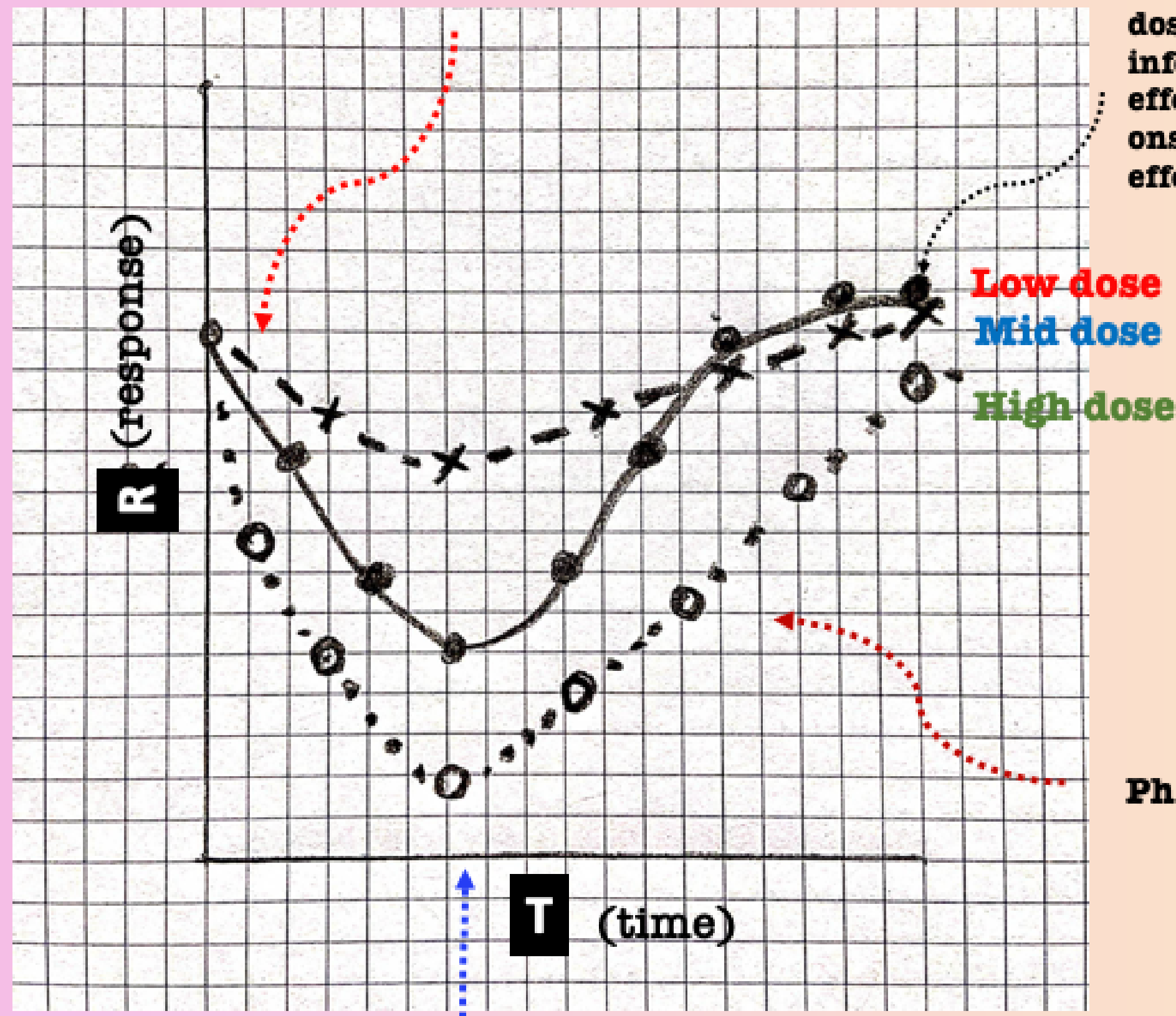


Single Dose-Time-Response Studies

Evaluation of PK/PD relationships for rapid and delayed effects

Building PK/PD models

Onset of pharmacodynamic Response



Endpoint observations post dose yield incomplete information on time course of effect. Important effects like onset, intensity, duration of effect missed.

Helps identify dose, regimen, duration of treatment

Duration of Pharmacodynamic Response

Intensity of pharmacodynamic effect (Peak effect) - Missed in endpoint assay

Reference: Gabrielsson J, Green AR. 2009. Quantitative pharmacology or pharmacokinetic pharmacodynamic integration should be a vital component in integrative pharmacology. J Pharmacol Exp Ther. 331(3):767-74.