

ABSTRACTS GUIDELINES

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A sample abstract:

In recent years, development of combination therapy has been in the forefront of drug research and development. Researchers have increasingly become interested in identifying agents that act synergistically when combined. Such synergy is usually characterized through either Bliss independence or Loewe additivity. As previously discussed, various statistical methods have been developed to assess drug synergy. The methods in general estimate synergistic effect, using pooled data from compounds administered individually and in combination. Although pooling data may, in many situations, lend one the ability to more accurately estimate model parameters, it has diminished return in drug synergy assessment when monotherapy and combination data are pooled.

This chapter discusses an emerging two-stage response surface method to maximize the use of information from data collected from both monotherapy and combination studies and provides more accurate estimation of drug synergy. The theoretical development of the method is elucidated in detail and further illustrated through a numerical example. Several nonlinear model fitting methods are also explained.