CONSTRUCTION OF UNREPLICATED, SPATIAL AND CROSSOVER DESIGNS USING CYCDESIGN

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Unreplicated designs are often used in early stages of selection in plant breeding trials; the unreplicated varieties can be compared using replicated check varieties. Spatial designs are used in field and glasshouse trials where plot-to-plot variation is assumed to vary with distance. Crossover designs are common in clinical trials where different treatments are tested on subjects and the existence of carry-over effects is possible. All of these design types are important in practice and can conveniently be generated for a wide range of parameters in the latest version of CycDesigN. In this talk the properties of these design types and their construction will be discussed.