

生物统计学与试验设计课程介绍

一、中文简介：

主要介绍生物统计的基本原理，试验设计方法，常用试验设计资料的 SAS 程序分析与 R 语言分析。主要包括，概率分布及统计推断，试验误差控制及简单数据分析，矩阵论及简单回归分析原理，多元回归分析，其它多元回归模型及非线性回归，方差分析与随机区组设计，析因设计，巢式设计，协方差分析，混合线性模型分析。

二、英文简介：

This course mainly introduces basic principles of biostatistics, methods of experimental designs, SAS and R language programming for analyzing experimental data of common design. The main content include probability distribution and statistical inference, experiment error control and simple data analysis, matrix theory and principle of simple regression analysis, multivariate regression analysis, other multivariate regression and nonlinear regression, variance and randomized block design, nested design analysis, covariance analysis, mixed linear models.