Statistics and Probabilities and Their Role within Health Sciences

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

Statistics is the branch of mathematics that deals with data collection, analysis, interpretation, and presentation. It plays a crucial role in the health sciences by quantifying and assessing the effectiveness of medical treatments, identifying health trends, and evaluating the risk factors associated with different diseases. On the other hand, probability is the branch of mathematics that studies random events. It plays a critical role in the health sciences by enabling scientists to develop models to predict the likelihood of certain outcomes, such as the probability of a particular disease occurring in a given population. Statistics and probability form the basis of evidence-based medicine, using scientific evidence to guide medical decision making.

- Probability Theory;
- Categorical data analysis,
- Biostatistics;
- Parametric and nonparametric methods;
- Time series and survival data analysis;
- Probabilistic and statistical models;
- Bayesian methods;
- Environmental statistics;
- Epidemiological methods.

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Message from the Editor-in-Chief

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