Quantitative decision making in preclinical drug discovery.

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Abstract: Preclinical discovery is an important component in the drug development life cycle. From target identification and validation, high throughout screening, lead optimization to clinical candidate selection, statistician need to integrate in the project team to understand the subject matter thus to utilize the statistics expertise and translational thinking to support quantitative decision making in each step. This talk will give an overview of the preclinical drug discovery. Critical question in each stage will be introduced with some examples of statistics experiment designs and data analysis.