



## CIIMAR Internal Presentations

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**June Stojan**

Methods and data analysis in enzyme kinetics

### **ABSTRACT**

#### **METHODS AND DATA ANALYSIS IN ENZYME KINETICS**

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Enzyme kinetics interprets the rates of reactions in terms of reaction mechanisms. Classical and rapid kinetic methods provide data that are used in mathematical modeling to obtain equations and their corresponding parameters which satisfy them all simultaneously. An approach to reveal complex multi intermediate reaction patterns is to analyze the same initial rate data by different types of equations in order to find common solutions and discriminate among them. To include all available kinetic data rather than just the initial rates, the analysis of progress curves by numerical integration appears to be the method of choice. Further step in the study of enzyme mechanisms is the kinetic analysis supported by structural information or vice versa.