



Contribution ID: 218

Type: **Talk**

The crystal structure of AMP deaminase as starting point for the design of new herbicides

Tuesday, 15 March 2022 15:00 (20 minutes)

The crystal structures of adenosine monophosphate deaminase (AMPD) from *Arabidopsis thaliana* were determined in an unligated form and in complex with the herbicidally active natural compound conformycin phosphate. Comparison of the structures revealed large conformational changes upon ligand binding and allowed a detailed view into the enzyme's mechanism. The results were used for the mechanism and structure based design of new AMPD inhibitors.

Primary author: FREIGANG, Jörg

Presenter: FREIGANG, Jörg

Session Classification: Biocrystallography: Drug Design