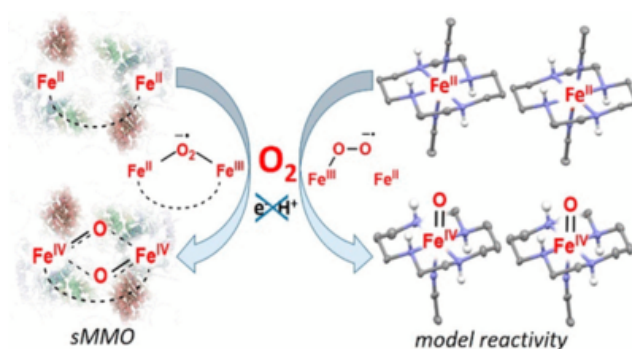


# Soluble Methane Monooxygenase Type Oxygen Activation at an Iron(II)-Cyclam Center

Start Time: Sunday, September 13, 2020

End Time:



In an interdisciplinary approach, the three UniSysCat research groups of Holger Dau, Peter Hildebrandt and Kallol Ray studied the reaction of a non-heme iron(II) complex with dioxygen to form an oxoiron(IV) complex via an unprecedented mechanism. This work sheds light on the chemistry of dinuclear non-heme iron enzymes like Soluble Methane Monooxygenase, catalyzing the conversion of  $\text{CH}_4$  to  $\text{CH}_3\text{OH}$ , one of the most difficult chemical oxidations.

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