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Structural characterization of reaction intermediates of the copper-dependent formylglycine-generating enzyme

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O₂ activation is central elementary step in many biological reactions. The formylglycine generating enzyme (FGE) is a mononuclear copper enzyme that appears to follow an unusual strategy for O₂ activation. In this presentation I will summarize our past and present efforts to visualize individual states of the enzyme on its path from the resting state to the reactive Michaelis Menten complex and beyond.

Primary author: SEEBECK, Florian

Presenter: SEEBECK, Florian

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