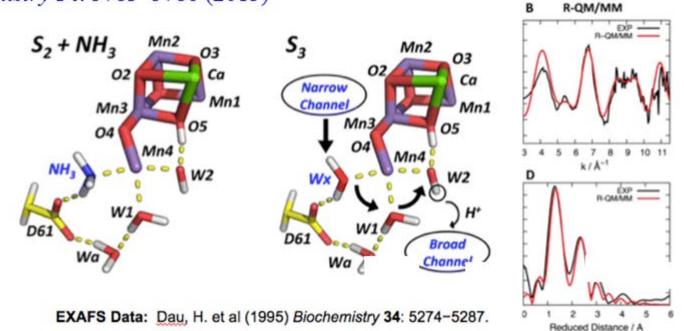
NH_3 Binding to the S_2 State of the O_2 -Evolving Complex of Photosystem II: Analogue to H_2O Binding during the $S_2 \rightarrow S_3$ Transition

Mikhail Askerka, David J. Vinyard, Gary W. Brudvig, and Victor S. Batista*

Department of Chemistry, Yale University, New Haven, Connecticut 06520-8107, United States

Biochemistry **54**: 5783–5786 (2015)



NH₃ binds as an additional terminal ligand to the dangling Mn4, instead of exchanging with terminal water. These results suggest that water binds analogously during the S2 → S3 transition, leading to rearrangement of ligands in a carrousel around Mn4.