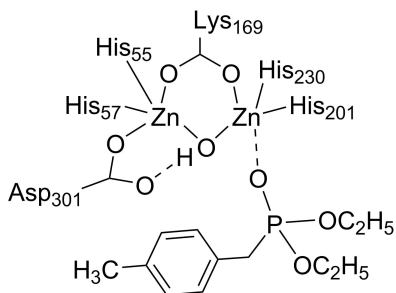
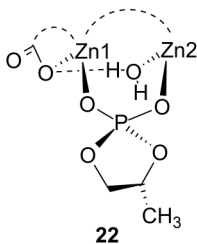


# Errata list

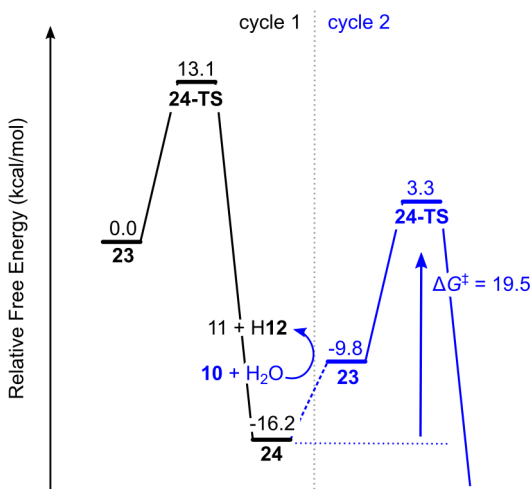
1. List of Publications: Paper IV is now published in *J. Am. Chem. Soc.* **2017**, *139*, 15494-15503. It is available under an ACS AuthorChoice License.
2. Page 15, Figure 6: The correct structure of PTE from reference 96 is:



3. Page 17, second paragraph from the bottom: the first sentence should start:  
“Several binding modes of substrate **10** to the catalysts are evaluated...”
4. Page 22, Scheme 3: In compound **22**, the phosphorus should not be protonated:



5. Page 26, Figure 10b: In the second cycle, “26” and “27-TS” should be replaced with “23” and “24-TS”:



6. Page 53: the following should be added to the Acknowledgements:  
*Jeremy Harvey*, for teaching how to properly convert experimental observations to free energy differences, and for your guidance in the jungle of free energy corrections.
7. Page 58, reference 96 should read:  
 [96] Vanhooke, J. L.; Benning, M. M.; Raushel, F. M.; Holden, H. M. *Biochem.* **1996**, *35*, 6020-6025.