

Appendix 5: Rubric used by graduate TAs to evaluate quality of biological rationale, relevant PE imagery usage, and logical conclusions of discussion section in the final enzyme catalysis research papers.

<p>Student name</p>	<p>Biological Rationale: Did student discuss <i>how</i> their treatment might affect AP structure such that its ability to bind substrate/ its reaction velocity were changed?</p> <p>If yes, how well was this done? 1 (poorly; barely mentioned it) 2 (o.k.; explained it somewhat but missing several key details) 3 (well; explanation is only missing a few details) 4 (excellently; clear, logical & complete explanation)</p>	<p>Did student present any Protein Explorer-type images in their paper? (y/n)</p> <p>If yes, were images used to support biological rationale/conclusions? (<i>i.e.</i>, demonstrated where/how AP structure is affected by their experimental treatment)? (y/n)</p>	<p>In “Discussion”: Were the conclusions about AP activity based on links between results and the biological rationale from the Intro? (y/n)</p> <p>If yes, how well was this done? 1 (poorly; conclusions barely made a link between results & biological rationale) 2 (o.k.; link was made but missing several key details) 3 (well; link was made & is only missing a few minor details) 4 (excellently; link was thorough, appropriate and logical)</p>
	<p>(y/n)</p> <p>1 2 3 4</p>	<p>(y/n)</p> <p>(y/n)</p>	<p>(y/n)</p> <p>1 2 3 4</p>