

# Supplemental Material

*CBE—Life Sciences Education*

Zhao and Schuchardt

Table A

*The distribution by question context of coded topic phrases, and the treatment of mutation*

<u>Context</u>	<u>Coded topic phrase</u>			<u>Treatment of mutation</u>		
	<u>Cause</u>	<u>Description</u>	<u>Propagation</u>	<u>Process- focused only</u>	<u>Entity- focused only</u>	<u>Dual- focused</u>
Lizard(N=30)	23	16	18	2	23	5
Bacteria(N=34)	25	16	15	0	32	2
Total	48	32	33	2	55	7

*Note.* There was no significant difference between lizards and bacteria for coded topic phrases ( $\chi^2=0.35$ ,  $p = .84$ ), or treatment of mutation (Fisher exact test,  $p = .10$ ).