

Supplemental Material

CBE—Life Sciences Education

Song *et al.*

Supplemental Materials

Measurement items for each construct employed in the research model

Perceived Usefulness-Teaching

- (PU1_T) Using Cell Collective in my teaching enables me to accomplish tasks more quickly.
- (PU2_T) Using Cell Collective improves my teaching performance.
- (PU3_T) Using Cell Collective in my teaching increases my productivity.
- (PU4_T) Using Cell Collective enhances my effectiveness in teaching.
- (PU5_T) Using Cell Collective makes it easier to do my teaching.

Perceived Usefulness-Learning

- (PU1_L) Using Cell Collective improves my students' learning performance.
- (PU2_L) Using Cell Collective enhances my students' understanding of biological processes.
- (PU3_L) Using Cell Collective increases my students' productivity in learning biological processes.
- (PU4_L) Using Cell Collective makes it easier for my students to learn biological processes.

Perceived Ease of Use-Teaching

- (PE1_T) Learning to use Cell Collective is easy for me.
- (PE2_T) I find it easy to get Cell Collective to do what I want it to do.
- (PE3_T) I find Cell Collective to be flexible to interact with.
- (PE4_T) It is easy for me to become skillful at using Cell Collective.
- (PE5_T) My interaction with Cell Collective is clear and understandable.

Perceived Ease of Use - Student

- (PE1_L) Learning to use Cell Collective is easy for my students.
- (PE2_L) My students find it easy to get Cell Collective to do what they want it to do.
- (PE3_L) My students find Cell Collective to be flexible to interact with.
- (PE4_L) It is easy for my students to become skillful at using Cell Collective.
- (PE5_L) My students' interaction with Cell Collective is clear and understandable.

Attitude toward Behavior

- (ATT1) It is a good idea to use Cell Collective in teaching biological processes.
- (ATT2) It is a wise idea to use Cell Collective in teaching biological processes.
- (ATT3) It is pleasant to use Cell Collective in teaching biological processes.

- (ATT4) I like the idea of using Cell Collective in teaching biological processes.

Behavioral Intention to Continue to Use or Use More

- (BI1) I intend to use Cell Collective more intensively for my teaching of biological processes.
- (BI2) I intend to explore more Cell Collective features/functions for my teaching of biological processes.
- (BI3) I intend to use Cell Collective to do my teaching of biological processes whenever it has a feature to help me perform it.
- (BI4) I intend to use Cell Collective in as many cases/occasions as possible.

Raw Data

PU1 _T	PU2 _T	PU3 _T	PU4 _T	PU5 _T	PU1 _L	PU2 _L	PU3 _L	PU4 _L	PE1 _T	PE2 _T	PE3 _T	PE4 _T	PE5 _T	PE1 _L	PE2 _L	PE3 _L	PE4 _L	PE5 _L	ATT1	ATT2	ATT3	ATT4	BI1	BI2	BI3	BI4	
4	4	5	5	5	7	7	7	7	6	5	6	6	6	5	5	5	5	5	6	4	4	5	4	5	6	2	
7	7	7	7	7	7	6	6	7	7	7	7	7	7	6	6	7	7	7	7	7	7	7	6	6	6	6	
5	6	5	6	6	6	6	6	6	5	5	4	6	6	5	5	5	5	6	6	6	5	6	6	6	6	6	
4	5	5	6	6	5	6	6	5	4	4	4	4	4	4	4	5	4	5	5	5	5	6	5	5	5	3	
					7	7	7	7	7	7	7	7	7						7	7	7	7	7	7	7	7	
5	6	6	7	5	6	7	7	7	6	5	6	6	5						7	7	7	7	5	5	5	5	
6	6	6	7	7	6	7	6	7	3	3	4	3	4	5	3	4	3	5	7	7	5	7	3	5	5	5	
6	6	6	6	6	6	6	6	6	5	5	5	4	5	3	3	3	4	3	6	6	6	6	4	6	6	5	
6	6	6	6	6	7	7	7	7	7	7	7	7		7	7	7	7	7	7	7	7	7	7	7	7	7	
2	4	4	3	4				3	5	4	4	4	3	1	1	1	1	1	5	4	4	5	1	1	1	1	
4	4	3	6	5	5	6		5	5	5				5	4				6		4	6	4	4	2	3	
6	6	5	7	6	6	7	6	7	7	6	6	6	6	6	5	6	6	6	6	6	6	6	6	6	6	6	
4	6	5	6	4	6	6	5	5	5	5	5	5	5	5	5	5	4	5	6	6	6	7	6	6	5	5	
5	4	4	6	6	6	6	3	3	5	3	5	5	4	3	3	3	3	4	7	6	3	6	6	6	6	6	
3	6	4	7	3	6	6	6	6	5	5	5	5	5	5		5		5	7	7	6	7	4	5	6	5	
7	7	7	7	7	7	7	7	7	3	6	7	6	7	6	6	2	2	6	7	7	7	7	4	5	7	7	
					6	7	6	6	6	6	5	6	6						6	6	5	6	6	7	6	6	
2	4	3	6	3	7	7		5	5	6	5	6	6	5	5	4	5	5	7	7	5	7	3	6	4	2	
4	5	4	5	5	6	6	4	6	6	4	5	6	6	5	5	4	5	4	6	5	5	6	5	5	5	5	
					4	5	5	4	5	3	6	5	4	4	4	4	5	4	4	4	4	4	5	4	5	5	4
3	5	4	6	5	6	6	6	6	5	3	5	3	4	5					6	6	5	6	4	5	6	3	
5	5	5	5	5	5	5	5	5	6	6	6	6	6	5	5	4	4	3	6	6	4	6	5	6	5	4	
5	5	5	6	6	7	7	7	7	7	7	5	6	7	5	5	5	5	5	6	4	4	6	5	5	6	4	
4	5	4	5	5	5	6	4	5	5	5	5	3	2	3	3	4	3	4	6	6	5	6	5	5	5	5	
3	3	2	2	2	3	2	2	4	6	5	5	6	5	2	2	2	2	2	4	4	4	5	3	3	3	3	
3	4	4	5	4	6	6	4	3	3	5	5	5	4	3				3	7	4	5	7	5	5	5	4	
1	1	1	6	1	6	7		1	6	6	2	4	6	2	2	2	2	2	5	6	1	4	1	1	1	1	

5	6	5	6	5	7	6	4	6	7	6	6	6	6	5	3	5	6	5	7	6	5	6	5	6	6	3	
6	5	5	6	6	6	6	5	6	7	6	5	6	6	6	5	5	6	6	7	7	6	7	3	5	5	3	
5	5	5	5	5	6	6	6	6	4	5	5	4	4	4	4	5	4	4	6	7	5	6	4	5	4	3	
6	6	4	7	6	7	7	6	6	7	6	5	5	6	6	6	6	5	6	7	7	6	6	4	4	3	3	
3	5	4	4	5	5	5	4	5	6	3	6	4	6						6	6	5	7	6	6	6	5	
2	6	3	6	5	7	7	7	7	7	7	7	7	7	3	7	7	7	7	7	7	7	7					
1	2	1	1	1	3	3	4	4	3	3	5	5	3	3	3	3	3	3	4	4	3	5	3	5	5	2	
5	4	4	6	6		5		6	5	5	6	5	5	5	5	5	6	6	7	6	6	6	6	6	6	6	
					6	6	6	6	6	6	5	6	5						6	6	5	6	6	6	6	6	
5	7	7	7	5				6	6	5	4	5	5	6	6		6	6	7	7	6	7	7	7	6	6	
3	4	4	5	3	5	5	5	5	5	3	1	3	3	5	3	3	2	2	6	6	2	7	4	5	5	4	
3	4	3	5	3	5	5	4	3	3	3	3	4	3	3	3	3	3	3	5	5	4	6	4	5	5	4	
									6	5	4	4	5						6	6	4	6	5	7	4	4	
7	5	5	6	7	6	7	4	6	6	5	6	4	6	6	5	5			5	5	4	6	6	6	6	2	
7	7	7	7	7	6	6	6	6	5	5	6	5	6	4	4	4	4	4	4	4	4	4	4	3	3	3	3