Final Research Presentation (exp 1 additions & exp 2 content) S23

Course: BS171 Cell and Molecular Biology Lab Spring 2023

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Presentation 1 score	Leve 10 p	I 4 oints	Level 3 8 points		Level 2 6 points		Level 1 4 points	Criterion Score	
Revised presentation 1	grace prose fina prese uplo rese assi, rese	re input from re- led revised research sentation 1. For gressive grading, the lentation was baded to the original sarch presentation 1 gnment dropbox and barch presentation 1 aded based on sions.	graded rev presentati progressiv final resea presentati uploaded research p assignmen	ve grading, the arch ion was to the original presentation 1 or the original or	Score input from graded revised in presentation 1. progressive grad final research presentation was uploaded to the research presentation assignment drop research presentegraded based revisions.	research For ding, the as eoriginal station 1 pbox and station 1	Score input from regraded revised research presentation 1. For progressive grading, the final research presentation was uploaded to the originaresearch presentation assignment dropbox are research presentation regraded based on revisions.	ne nal 1 nd	
Experiment 1 sub-commu	unity	Level 3		Level 2		Level 1		Critorian Scaro	

comparisons	Level 3 0.5 points	Level 2 0.25 points	Level 1 0 points	Criterion Score
Comparison to E. coli sub- community	Accurately state the findings of at least one team focusing on this sub-community in your section, state the team ID, and compare the team's results to yours (in agreement or conflict with yours).	1 - 2 components are incomplete, vague, missing or contains errors.	> 2 components are incomplete, vague, missing or contains errors.	/ 0.5
Comparison to streptomycin- resistant sub-community	Accurately state the findings of at least one team focusing on this sub-community in your section, state the team ID, and compare the team's results to yours (in agreement or conflict with yours)	1 - 2 components are incomplete, vague, missing or contains errors.	> 2 components are incomplete, vague, missing or contains errors.	/ 0.5
Comparison to tetracycline- resistant sub-community	Accurately state the findings of at least one team focusing on this sub-community in your section, state the team ID, and compare the team's results to yours (in agreement or conflict with yours	1 - 2 components are incomplete, vague, missing or contains errors.	> 2 components are incomplete, vague, missing or contains errors.	/ 0.5

Experiment 2 Objective	Level 2 0.25 points	Level 1 0 points	Criterion Score
Team's experiment 2 Objective	Team's Experiment 2 objective is accurate and written as a question	Absent or incorrect or has serious errors.	/ 0.25

Approach	Level 3 0.5 points	Level 2 0.25 points	Level 1 O points	Criterion Score

Approach		Level 3 0.5 points	5		Level 2 0.25 points			Level 1 0 points				Criterion Score			
Experimental Design : table	gene	genes/tr amplicor the four screenin sequence	ade the table with the es/trait, gene function, and licon size with content for four genes your team is ening for. Primer names , pences, annealing peratures not required.		ble or	/ 0.5									
			Level 2				Level 1								
Approach			0.25 points				0 points					Criterio	n Score	!	
Experimental Design : formatting	gene tabl	e	Appropriate provided abo				> 1 compo incorrect.	onent	missing, inc	complete	, or	/ 0.25			
Approach		Level 3 0.5 points	5		Leve 0.25	el 2 points			Level 1 0 points				Criter	ion S	Score
Protocol Flow Chart - Experiment 2		achieve objective commun	s (techniques) Experiment 2 es are effectiv licated with a and captions	ely	methods, captions, or images. methods, captions, or images.		,	/ 0.5							
Manipulated and Resp Variables - Experiment	nipulated and Response iables - Experiment 2 wariables are effe communicated with captions		s are effective icated with a	ely		nriable missir ncorrect.	ng, incomple	te,	Both varia		-		/ 0.5		
D. H	Level 5		Level 4			Level 3		Leve	el 2		Level	1			0.11.1.0
Results	1 point		0.75 poi	nts		0.5 points		0.25	points		0 poin	ts			Criterion Score
Data Gel A	formatte	ly labeled	formatt	with ing or labeli	ing.	2 issues wit formatting of			sues with natting or la	beling	forma	sues with atting or ntent mis	labeling		/1
Data Gel B	formatte effective	Gel B data properly 1 issue		1 issue with formatting or labelin					3 issues with formatting or labeling		> 3 issues wi ling formatting o or content m		labeling		/1
	Leve	14		Level 3			Level 2			Level 1					
Results		points		0.5 points			0.25 points			0 points	5			Crit	erion Score
Figure #, Title, Legend	Single figure number, title, legend based on instructions provided in lab and from Appendix F, placed correctly		1 - 2 issue	25		2 - 3 issues	5		Missing	g or > 3	3 issues		/ 0.	.75	
Results	Level 4 1 point		Level 4 0.75 poi	nts		Level 3 0.5 points		Leve 0.25	el 2 5 points		Level :				Criterion Score

Results	Level 4 1 point		Level 4 0.75 po	ints	Level 3 0.5 points		Leve 0.25	el 2 5 points		Level 1 0 points			Criterion Score
Evidence statements - Controls	and conc described properly each gen and nega (instruction	d and formatted e's positive tive contro ons provid d in App. F	concise contair for or include is mission statem led	with accuraceness, format as minor error ades claims or ang an evidencent.	r accuracy, conciseness, format and/or contains minor errors		accuracy, conciseness, acformat and/or for contains minor errors and/or includes claims and/or is missing an		> 3 issues with accuracy, concisent format and/or contains minor erro and/or includes cla and/or is missing a evidence statement		errors claims ig an	/1	
Evidence statements - samples	Results a and conc described upstream downstre results, a formatted gene/trai guideline Appendix combine for genes results. (provided	d, comparion and sam sample am sample and properling for each at using	ely concise contair or incluis missi e statem y n ts lar in	with accurac eness, format as minor error ides claims or ing an evidend ent.	c or accuracy, conciseness, rs format and/or r contains minor errors		format and/or contains minor errors		errors claims ng an	format and/or contains minor erro		errors claims g an	/1
Experiment 2 Claims Claims	Level	l 4 points		Level 3 0.5 points		Level 2 0.25 points			Level 1 0 points			Cı	riterion Score
Experiment 2 Claims			s specific rait in Do not	pecific clearly stated, i t in or includes evid not reasoning		not clearly incomplete	ponents missing, > 2 components missing, not clear incomple includes reasoning		arly stat lete, an s evide	ed, d/or	5,	0.75	
Claim for section's research question based on Experiment 2 data Level 3 0.5 points		5			e vel 2 25 points		Level 1 0 points			Criterio		n Score	
question based on that address research que updated bas 2 results. Do		resses the se question and based on ex	ses the section's cle estion and is inc sed on experiment o not include		- 2 components missing, no early stated, incomplete, or cludes reasoning or eviden		r clearly stated, incomp		mplete,	or	/ 0.5		
Discussion			Level 2 0.25 points			Level 1 0 points					Criterion	Score	
Impact on Human Health Sta		Statements effectively c	are provided i liscuss <u>the im</u> ent 2 findings	plications of		incomplete, or missing			/ 0.25				

<u>health</u>

						1			
Discussion		Level 2 0.25 points	Level 1 0 points			Criterion Score			
Connection to Relevance		Statements are provided that accurately and effectively discusses how the findings address the issue of broad significance presented in the Relevance section.		Incorrect, incomplete, or missing			/ 0.25		
Discussion	Level 3 0.5 poin	ts	Level 2 0.25 points		Level 1 0 points		Criterion Score		
Experiment 2 comparison to at least one other E. coli & virulent bacteria team	Accurately state the findings of at least one team focusing on this community in your section, state the team ID, compare the team's results to yours (in agreement or conflict with yours)		1 - 2 components missing, incomplete, or incorrect		> 2 components missing, incomplete, or incorrect		/ 0.5		
Experiment 2 comparison to at least one other antibiotic resistant bacteria team	Accurately state the findings of at least one team focusing on this community in your section, state the team ID, compare the team's results to yours (in agreement or conflict with yours)		1 - 2 components missing, incomplete, or incorrect		> 2 components missing, incomplete, or incorrect		/ 0.5		
Reliability of experiment 1 and 2 claims	Provide statements about the reliability of your team's experiment 1 and experiment 2 claims (based on comparisons to other teams, control results, etc)		1 - 2 componen incomplete, or in		> 2 components missing, incomplete, or incorrect		/ 0.5		
Final Claim	Level 3 0.5 poin	ts	Level 2 0.25 points	Level 1 0 points			Criterion Score		
For Section's Research Question	that adresses incorpo	e a final, accurate claim dresses your section's h question orating findings from eperiments 1 and 2	1 -2 issues, or m from 1 experime			or	/ 0.5		
In-text citations		Level 2		Level 1		Criterio	on Score		
Appropriate citations for Experiment 2 discussion have been provided for all statements of fact (information 2.25 points Appropriate citations for Experiment discussion have statements of fact (information 2.25 points		Appropriate citations for discussion have been prostatements of fact (inforgenerated by this study)	ovided for all mation not	0 points Missing > 2 app	propriate citations	/ 0.25			
In-text citations for Experiment 2 are properly formatted based on guidelines from App. H In-text citations for Experiment 2 properly formatted based on from App. H. No more the first citations for Experiment 2 are properly formatted based on from App. H. No more the first citations for Experiment 2 are properly formatted based on from App. H. No more the first citations for Experiment 2 are properly formatted based on from App. H. No more the first citations for Experiment 2 are properly formatted based on from App. H. No more the first citations for Experiment 2 are properly formatted based on from App. H.		d on guidelines	> 2 issues		/ 0.25	/ 0.25			
References Level 2 0.25 points			Level 1 0 points		Criterio	Criterion Score			

References		Level 2 0.25 points		Level 1 0 points		Criterion Score		
Full, properly formatted references for combined for both Experiment 1 & 2		Full, properly formatted provided so all Experime are cited and integrated Experiment 1 references been updated based on provided). Whole list is i order based on guideline Appendix H. ALL source have full references provided are No more than 2 issues	ent 2 sources into s (which have feedback in alphabetic es from s cited in-text vided AND all	>2 issues		/ 0.25		
References	Level 3 0.5 poir	its	Level 2 0.25 points		Level 1 O points		Criterion Score	
A minimum of 4 or more appropriate primary/secondary references are included in the presentation	appropriate primary/secondary references are included in the		1 - 2 issues		>2 issues		/ 0.5	
Design	Level 3 0.5 poir	Level 2 Level 1 0.25 points 0 points				Criterion Score		
Appeal & Organization	Appeal & Organization – Presentation is attractive and design elements enhance the message. Message is well organized to maximize clarity and flow.		1 - 2 issues		> 2 issues		/ 0.5	
Spelling & grammar		Level 2 0.25 points		Level 1 0 points		Criterio	on Score	
Spelling and grammar	Spelling and grammar		No more than two spelling or grammar issues; all gene and species names are <i>italicized</i> and properly capitalized as appropriate in the final research presentation.		> 2 issues with spelling or grammar		/ 0.25	
Team contributions	Team contributions Level 2 0.25 points			Level 1 0 points		Criterio	on Score	
Team Contributions individual student contributions team presentation are refinal slides			Incomplete or n	nissing	/ 0.25			
Delivery		Level 2 0.25 points		Level 1 0 points		Criterio	on Score	
Verbal statements are accurate match the information on each of slides		Verbal statements are as match the information o slides. No more than 2 is	on each of the	> 2 issues		/ 0.25		

Delivery	Level 2 0.25 points	Level 1 0 points	Criterion Score
All pertinent information from each of the slides the slides delivered	All pertinent information from the slides delivered. No more than 2 issues.	> 2 issues	/ 0.25
Verbal cues or animation used to direct audience to what is being talked about on a slide	Verbal cues or animation used to direct audience to what is being talked about on a slide. No more than 2 issues.	> 2 issues	/ 0.25

Total / 25

Overall Score

Level 4 22.5 points minimum

Level 3
17.5 points minimum

Level 2 12.5 points minimum **Level 1**0 points minimum