Pre-assessment Survey for GCAT Synthetic Biology

Thank you for volunteering this information for the meeting report being conducted by the participants of the First Faculty Training in Synthetic Biology supported by GCAT.

Institution Background Information

Institution Name:
Which of the following best describes your institution (circle one): R1, Liberal Arts, Masters, Other
Approximate number of students across the whole institution: Approximate % of undergraduate science/mathematics majors: Approximately what % of your students are undergraduates?:
To what degree do you feel that your institution actively supports its undergraduates undertaking and completing independent research projects?
1 2 3 4 5 no supportoutstanding support
Briefly explain the support your institution provides for these efforts. Include both financial and academic support options:
Personal Background Information
General Area of Expertise (please circle all that apply):
Biology Chemistry Computer Science Physics Engineering Biochemistry Mathematics/Statistics
Specific Area of Expertise:
How many classes do you teach per semester, including lab sections?
What classes do you currently teach?

For each of the following, please give the number of years of experience performing the indicated task and rate your perceived competency level for each:

1 – None, 2 – Beginner, 3 – Intermediate/Average, 4 – Advanced, 5 – Expert.

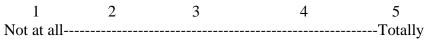
Task	Number of Years	Perceived Competency Level				
	Experience	(please circle one)				
Working (i.e. as a technician) in a		1	2	3	4	5
laboratory environment.						
Using standard laboratory						
equipment (i.e. measuring devices		1	2	3	4	5
(scales, etc.), pipettes, etc.)						
Working with DNA		1	2	3	4	5
Designing an experiment		1	2	3	4	5
Data analysis		1	2	3	4	5
Teaching		1	2	3	4	5
Collaborating out of your field		1	2	3	4	5
Others:		1	2	3	4	5

Briefly describe how you have previously engaged in cross-disciplinary collaboration for your personal research or the research of your undergraduate students. What was the nature of the collaboration and what were the ultimate goals?

Perceptions of Synthetic Biology/Personal Goals

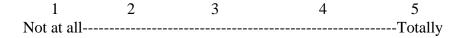
1.) What is your current understanding of synthetic biology?	What, if anything, makes
synthetic biology a unique field?	

2.) How comfortable do you currently fee	l with teaching synthetic biology to
undergraduates?	



Briefly explain:

3.) How comfortable do you currently feel with conducting synthetic biology-based research projects with undergraduates?



Briefly explain:

4.) Do you currently feel your undergraduate students are comfortable with the concepts of synthetic biology?				
1	2	3	4	5
Not at all			[.]	Γotally
Briefly explain:				
5.) Do you think that your undergraduate students will be able to master the concepts of synthetic biology? In your opinion, what would be the best ways for your students to obtain mastery of this subject?				
6.) How comfordiscipline in co.	-	-	th working wit	h individuals outside of your
1	2	3	4	5
Not at all			^r	Гotally
Briefly explain:				
7.) How comfortable do you feel in your ability to establish cross-disciplinary collaborations?				
1	2	3	4	5
Not at all			^r	Γotally
Briefly explain:				
8.) What resources do you feel will be necessary for you to successfully engage in synthetic biology work? Include all possible resources such as financial support, academic support, GCAT support, etc.				
9.) How do you envision utilizing synthetic biology in your student-led research? How will this work ultimately be presented?				

,	terials nec	d effort do you fee essary to successfu	•	-	nto developing the ogy work with your	
1	2	3	4		5	
Very little				as mu	ich as it takes	
11.) Would y load?	ou feel co	mfortable with this	s preparation e	effort given y	our current teaching	
1 Not at all	2	3	4	5 Totally		
Briefly expla	in:					
12.) Briefly describe what you see as the primary benefits of synthetic biology for your undergraduate students.						
13.) What are your personal expectations for this workshop?						
14.) What are	e your rese	rvations about this	s workshop?			
		Th	ank you!			