## A. EXPERIMENTAL SETUP

- (•) Create new experimental setup
- ( ) Copy and edit an existing experimental setup

Notes: The instructor will first choose whether he/she would like to create an entirely new setup or use a pre-existing one (either one from his/her account or a freely available exercise) as a template. If the second choice is selected, then he/she will have  drop down menu of options from which he/she can select the name of an exercise. All of the fields  below will auto-populate, with the option to edit.

1. Which experimental setup variables are in your experimental setup?

- [X] Strains
- [X] Treatments
- [X] Treatment Concentration
- [X] Temperature
- [ ] Treatment Start Time
- [ ] Treatment Duration
- [ ] Collection Time

Notes: The instructor will input the experimental variables that apply to his/her experiment setup

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2. a) How many strains do you have?

3

b) How many different treatments do you have?

2

Notes: text box entry must be a number for  question 2 a-d.

c) How many different treatment concentrations do you have?

1

d) How many different temperatures do you have?

2

Another option is to skip question 2 and go straight to question 3. The default would then be that one row appears after each question and the add row button would be really necessary in that case.

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3. a) Enter the name of each of your strains.

1 [ ] x

2 [ ] x

3 [ ] x

Add Row

b) Enter the name of each of your treatments.

1 [ ] x

2 [ ] x

Add Row

c) Enter each of your treatment concentrations. Don't forget to include the appropriate units.

**Treatment A:** [ ] x

**Treatment B:** [ ] x

Add Row

d) Enter each of your temperatures. Don't forget to include the appropriate units.

1 [ ] x

2 [ ] x

Add Row

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4. Below is your experimental setup so far. Please review the setup and go back to edit the setup if needed.

## ADD SAMPLES

| | Strain | Treatment | Treatment Concentration | Temperature | Delete? |
|---|---|---|---|---|---|
| ☐ | **Strain A** | **Treatment A** | **100 ng/mL** | **30 C** | x |
| ☐ | **Strain A** | **Treatment A** | **100 ng/mL** | **37 C** | x |
| ☐ | **Strain A** | **Treatment B** | **200 ng/mL** | **30 C** | x |
| ☐ | **Strain A** | **Treatment B** | **200 ng/mL** | **37 C** | x |
| ☐ | **Strain B** | **Treatment A** | **100 ng/mL** | **30 C** | x |
| ☐ | **Strain B** | **Treatment A** | **100 ng/mL** | **37 C** | x |
| ☐ | **Strain B** | **Treatment B** | **200 ng/mL** | **30 C** | x |
| ☐ | **Strain B** | **Treatment B** | **200 ng/mL** | **37 C** | x |
| ☐ | **Strain C** | **Treatment A** | **100 ng/mL** | **30 C** | x |
| ☐ | **Strain C** | **Treatment A** | **100 ng/mL** | **37 C** | x |
| ☐ | **Strain C** | **Treatment B** | **200 ng/mL** | **30 C** | x |
| ☐ | **Strain C** | **Treatment B** | **200 ng/mL** | **37 C** | x |

Instead of going back to edit the setup, the instructor could do a quick edit of the setup here if it is something easy such as deleting a row.

This information should be displayed as the "Add Samples' window in StarCellBio so the instructor can see what it will look like.

The instructor should also be able to re-arrange the order of the rows and/or columns here into the desired position.

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5. Would you like to group your experimental setup by one of your variables in the “Add Samples” window in StarCellBio?

- [x] Yes
- [ ] No

If yes, which one?

- (•) Strains
- ( ) Treatments
- ( ) Treatment Concentration
- ( ) Temperature

If the instructor selects yes, then the next question appears. Based on the selection, the new edited Add Samples window should appear on the next screen. The instructor will need to “ok” the information before continuing.

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6. Please confirm your experimental setup before continuing:

## ADD SAMPLES

**Strain A:**

| | Treatment | Treatment Concentration | Temperature |
|---|---|---|---|
| ☐ | **Treatment A** | **100 ng/mL** | **30 C** |
| ☐ | **Treatment A** | **100 ng/mL** | **37 C** |
| ☐ | **Treatment B** | **200 ng/mL** | **30 C** |
| ☐ | **Treatment B** | **200 ng/mL** | **37 C** |

**Strain B:**

| | | | |
|---|---|---|---|
| ☐ | **Treatment A** | **100 ng/mL** | **30 C** |
| ☐ | **Treatment A** | **100 ng/mL** | **37 C** |
| ☐ | **Treatment B** | **200 ng/mL** | **30 C** |
| ☐ | **Treatment B** | **200 ng/mL** | **37 C** |

**Strain C:**

| | | | |
|---|---|---|---|
| ☐ | **Treatment A** | **100 ng/mL** | **30 C** |
| ☐ | **Treatment A** | **100 ng/mL** | **37 C** |
| ☐ | **Treatment B** | **200 ng/mL** | **30 C** |
| ☐ | **Treatment B** | **200 ng/mL** | **37 C** |

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**Confirm Experimental Setup**