Problem Set Builder

Your Assignments:

Create A New Course

Course 01.01

Current Assignments

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- Assignment 02

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- Draft 02

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- Archived Assignment 02

Assignment Editor

COURSE SETUP | ASSIGNMENT SETUP | FPO | FPO

Course Setup

1. What is the name of your course?

Course Name

2. What course code would you like to provide to your students?

Course Name

SAVE AND CONTINUE ▸

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COURSE SETUP | ASSIGNMENT SETUP | FPO | FPO

Assignment Setup

- ○ Create new assignment OR
- ◉ Use an existing assignment as a template.

Experiment 1

1. What is the name of the assignment?

Assignment Name

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COURSE SETUP | ASSIGNMENT SETUP | FPO | FPO

Experiment Setup

In this section, you will specify the strains and treatments available for experimentation.

1. Name the strains available for experimentation.

a) Name the strains available for experimentation.

1. *Strain A*

ADD

2. Select Select the experimental variables you wish to define for your treatment protocols. Select all that apply.

- [x] Treatment Concentration
- [x] Temperature
- [ ] Treatment Start Time
- [ ] Treatment Duration
- [x] Collection Time

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COURSE SETUP > ASSIGNMENT SETUP > FPO > FPO

Experiment Setup

In this section, you will specify the strains and treatments available for experimentation.

3. Define the treatment protocols available for experimentation.

a) Name and define your treatment variables.

	Name	Concentration	Concentration Units	
1.	*Treatment 1*	*Concentration*	*Units*	
	Treatment 1	*Concentration*	*Units*	x

ADD

Temperature °C

Temperature °C x

ADD

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COURSE SETUP | ASSIGNMENT SETUP | FPO | FPO

4. Below are all possible combinations of strains and treatment protocols.

- You can delete irrelevant combinations and sort the combinations into the desired order.
- If you would like to edit individual experimental variables, go back to the previous page.

Samples SORT

Strain	Treatment	Treatment Concentration	Temperature	
Strain A	Treatment A	100 ng/mL	30 C	X
Strain A	Treatment A	100 ng/mL	30 C	X
Strain B	Treatment B	100 ng/mL	30 C	X
Strain B	Treatment B	100 ng/mL	37 C	X
Strain B	Treatment B	200 ng/mL	37 C	X

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COURSE SETUP | ASSIGNMENT SETUP | FPO | FPO

4. Below are all possible combinations of strains and treatment protocols.

- You can delete irrelevant combinations and sort the combinations into the desired order.
- If you would … page.

Samples SO…

Strain	
Strain A	x
Strain A	x
Strain B	x
Strain B	x
Strain B	x

Experimental Setup Sorting

Strain	Ascending
Treatment	Ascending
Treatment Concentration	Ascending
Temperature	Ascending

SORT

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COURSE SETUP | ASSIGNMENT SETUP | FPO | FPO

5. Please confirm your experimental setup before continuing:

	Strain	Treatment	Temperature
	Wild Type	Growth Media	30°C
	Wild Type	Growth Media	37°C
	Mutant 1	Growth Media	30°C
	Mutant 1	Growth Media	37°C

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CONFIRM EXPERIMENTAL SETUP ►

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COURSE SETUP › ASSIGNMENT SETUP › SELECT TECHNIQUE › FPO

Select a Technique: Western Blotting | Flow Cytometry | Microscopy

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CONFIRM EXPERIMENTAL SETUP ►

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COURSE SETUP > ASSIGNMENT SETUP > SELECT TECHNIQUE > FPO

6. Define which bands will appear and their relative intensity for each of your samples in your experiment setup.

A. Primary Antibody 1, Secondary Antibody 1

Sample	Size (kDa)	Relative Band Intensity	Lysate Type	Apply to all?
1. Strain A, Treatment A 100 ng/mL, 30 C	13		WCL Nuc Cyto	X
2. Strain A, Treatment A 100 ng/mL, 30 C	45		WCL Nuc Cyto	X
3. Strain A, Treatment A 100 ng/mL, 30 C	13		WCL Nuc Cyto	X
4. Strain A, Treatment A 100 ng/mL, 30 C	45		WCL Nuc Cyto	X
5. Strain A, Treatment A 100 ng/mL, 30 C	13		WCL Nuc Cyto	X
6. Strain A, Treatment A 100 ng/mL, 30 C	45		WCL Nuc Cyto	X

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COURSE SETUP > ASSIGNMENT SETUP > SELECT TECHNIQUE > FPO

6. Define which bands will appear and their relative intensity for each of your samples in your experiment setup.

Preview Film

Which percentage of acrylamide would you like to use for your gel?

○ 10% ○ 12% ○ 15%

Samples

1. Wild Type, Growth Media, 30°C - Whole Cell
2. Wild Type, Growth Media, 37°C - Whole Cell
3. Mutant 2, Growth Media, 30°C - Whole Cell
4. Mutant 2, Growth Media, 37°C - Whole Cell

Samples 1-15 | Samples 16-30

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

kDa
~250
~150
~100
~75
~50
~37
~25
~20
~15
~10

Blotting Conditions

Primary antibody:
mouse anti-cyclin E

Secondary antibody:
rabbit anti-mouse

Analysis Tools

Exposure time:
1 min

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