StarCellBio

Welcome to StarCellBio, a virtual experiment simulation tool...

SEE MORE

TRY AN EXPERIMENT >>

CREATE INSTRUCTOR ACCOUNT >>

CREATE STUDENT ACCOUNT >>

INSTRUCTOR RESOURCES

EXPERIMENTAL DESIGN

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1. Design
2. Set Up
3. Run Experiment
4. Select Technique(s)
5. Run Technique(s)
6. Analyze
7. Conclude

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TECHNIQUES

Western Blot

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Flow Cytometry

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Microscopy

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7.03 StarCellBio Assignment 3

- Experiment 1
- Experiment 2
- Experiment 3

+ New Experiment

7.03 STARCELLBIO ASSIGNMENT 3

Your new lab is studying vulva development in C elegans. Your screen a chemical library and identify new drugs, which affect vulva development and you name them Vulvarine 1, 2, 3 and 4.

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WHAT IS YOUR NOTEBOOK?

The StarCellBio tool includes a notebook feature. Your instructor has started your notebook by including your assignment and related background reference materials. As you perform your experiments, all of your results will automatically be entered in your lab notebook. Users can refer back to previous experimental outcomes when designing a new experiment. View your notebook by clicking on the notebook icon (shown above), located in the lower right corner of each window.

OBJECTIVES

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3. Veniam, quis nostrud exerci tation ullamcorper suscipit lobortis. Duis autem vel eum iriure dolor in hendrerit in vulputate velit esse. Nulla facilisis at vero eros

DESIGN EXPERIMENT

StarCellBio

CONTACT | REFERENCE LIBRARY | USER GUIDE | SIGN OUT

EXPERIMENT 1

ASSIGNMENTS > ASSIGNMENT 3 > DESIGN > SET UP

1 DESIGN — 2 SET UP — 3 RUN — 4 SELECT TECHNIQUE — 5 PERFORM TECHNIQUE >>>

On this page, set up your experiment to treat the wild-type worms with the four new drugs, Vulvarines 1-4, identified in your chemical screen.

- To get started, click **Create new set-up** or **Select pre-existing set-up as a template**
- For each treatment protocol, select the strain, treatment(s), and treatment dose.
- For all of your treatments, select start, duratiion and collection time..
- Once you finish setting up your experiment, select **Run Experiment**. After you run your experiment, you will be unable to change your treatment protocols.

IN THE LAB

Create new set-up

Select pre-existing set-up as template: Experiment 1 Set-Up

	Strain	Treatment	Concentration	Start	Duration	Temp	Collection Time	
	Wild Type	Buffer	10 mm	Immediately	3 d	65	3 d	positive control
	Wild Type	Vulvarine 1	10 mm	Immediately	3 d	65	3 d	negative control
	Wild Type	Buffer	20 mm	Immediately	4 d	65	3 d	
	Wild Type	Buffer	0 mm	Immediately	3 d	65	3 d	
	Wild Type	Buffer	20 mm	Immediately	4 d	65	3 d	

DESIGN EXPERIMENT | + MULTIPLE | RUN EXPERIMENT

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NOTEBOOK

StarCellBio

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EXPERIMENT 1

ASSIGNMENTS > ASSIGNMENT 3 > DESIGN > SET UP > TECHNIQUES > WESTERN BLOT

WESTERN BLOT 1 x | WESTERN BLOT 2 x | WESTERN BLOT 3 x | ADD +

<<< 5

PERFORM WESTERN BLOT

1. Sample Prep | 2. Prepare Gel | 3. Load Gel | 4. Run | 5. Transfer | 6. Blot | 7. Develop

Samples

1. Sample Name + Lysate Type
2. Sample Name + Lysate Type
3. Sample Name + Lysate Type
4. Sample Name + Lysate Type
5. Sample Name + Lysate Type
6. Sample Name + Lysate Type
7. Sample Name + Lysate Type
8. Sample Name + Lysate Type
9. Sample Name + Lysate Type
10. Sample Name + Lysate Type
11. Sample Name + Lysate Type
12. Sample Name + Lysate Type
13. Sample Name + Lysate Type
14. Sample Name + Lysate Type
15. Protein Ladder

PROTEIN X x | BLOT x

BLOT & DEVELOP >>

<< SAMPLE PREP