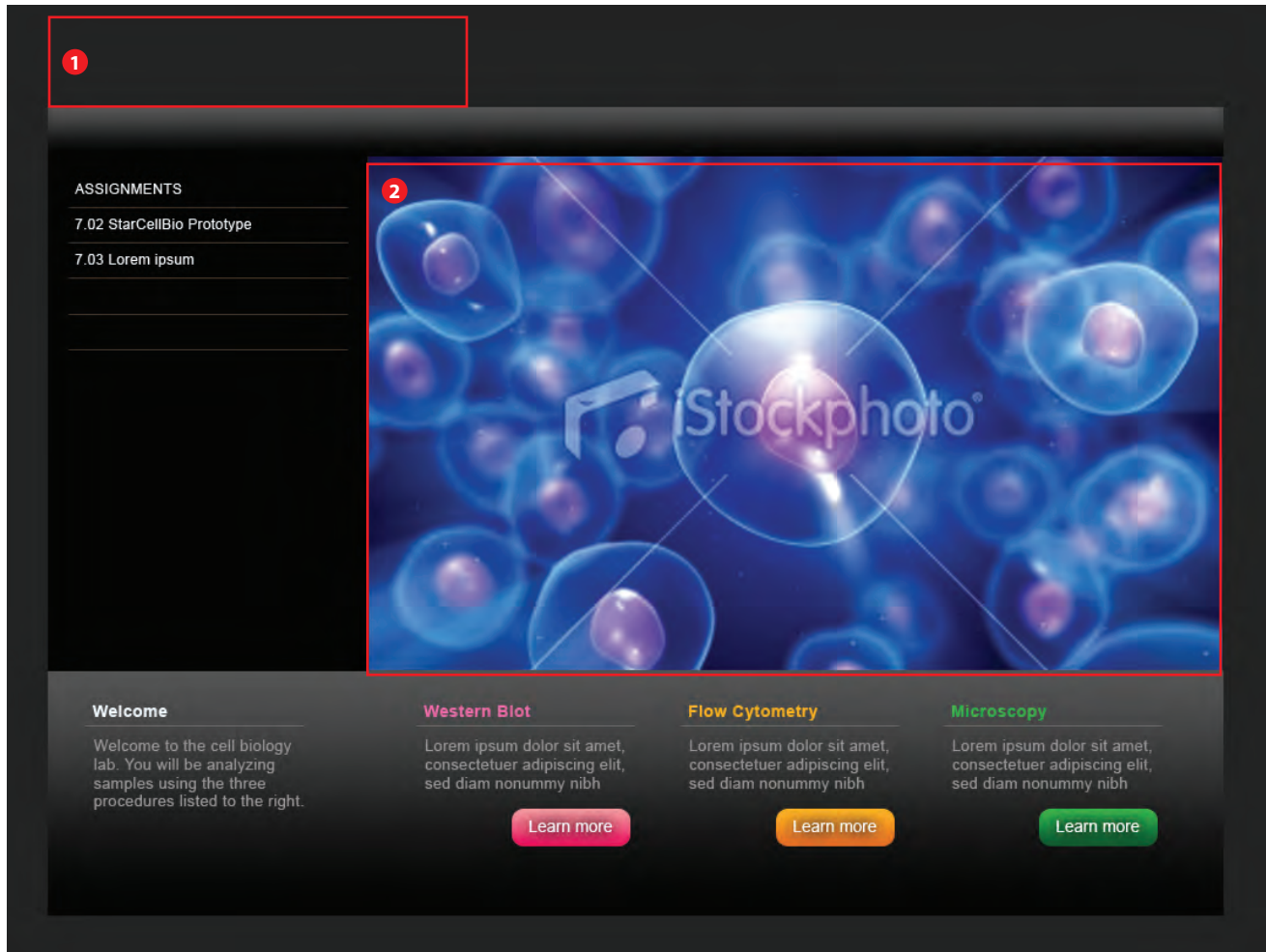


## Home Page



- 1 Star Cell Bio logo (Lourdes, can you please provide what you have and I can add the ball and stick graphic if you want it)
- 2 Home page image (suggest either purchasing the lab photo if cannot get a good picture, or just have cell image)

## Assignment Page

**ASSIGNMENTS**

- 7.02 StarCellBio Prototype
- 7.03 Lorem ipsum

### Assignment: 7.02 StarCellBio Prototype

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

Increasing amounts of Vulvarines 1 and 2 result in a vulvaless phenotype in the wild-type worms whereas treatment of wild-type worms with Vulvarines 3 and 4 results in a multivulva phenotype. Your advisor tells you that some proteins involved in the vulva development pathway are already known and she advises you to do western blots to test if some of these proteins are affected by these treatments.

#### OBJECTIVES

- 1 Use the StarCellBio software to analyze the western blots from worms treated with increasing doses of Vulvarines. Choose the gene products whose expression you would like to check.
- 2 Which proteins are affected by Vulvarine treatment? What is the critical Vulvarine concentration for each treatment?
- 3 Look up the biological function of each protein whose expression is affected by the drug and speculate as to how the change in its levels may have a role in vulva development.

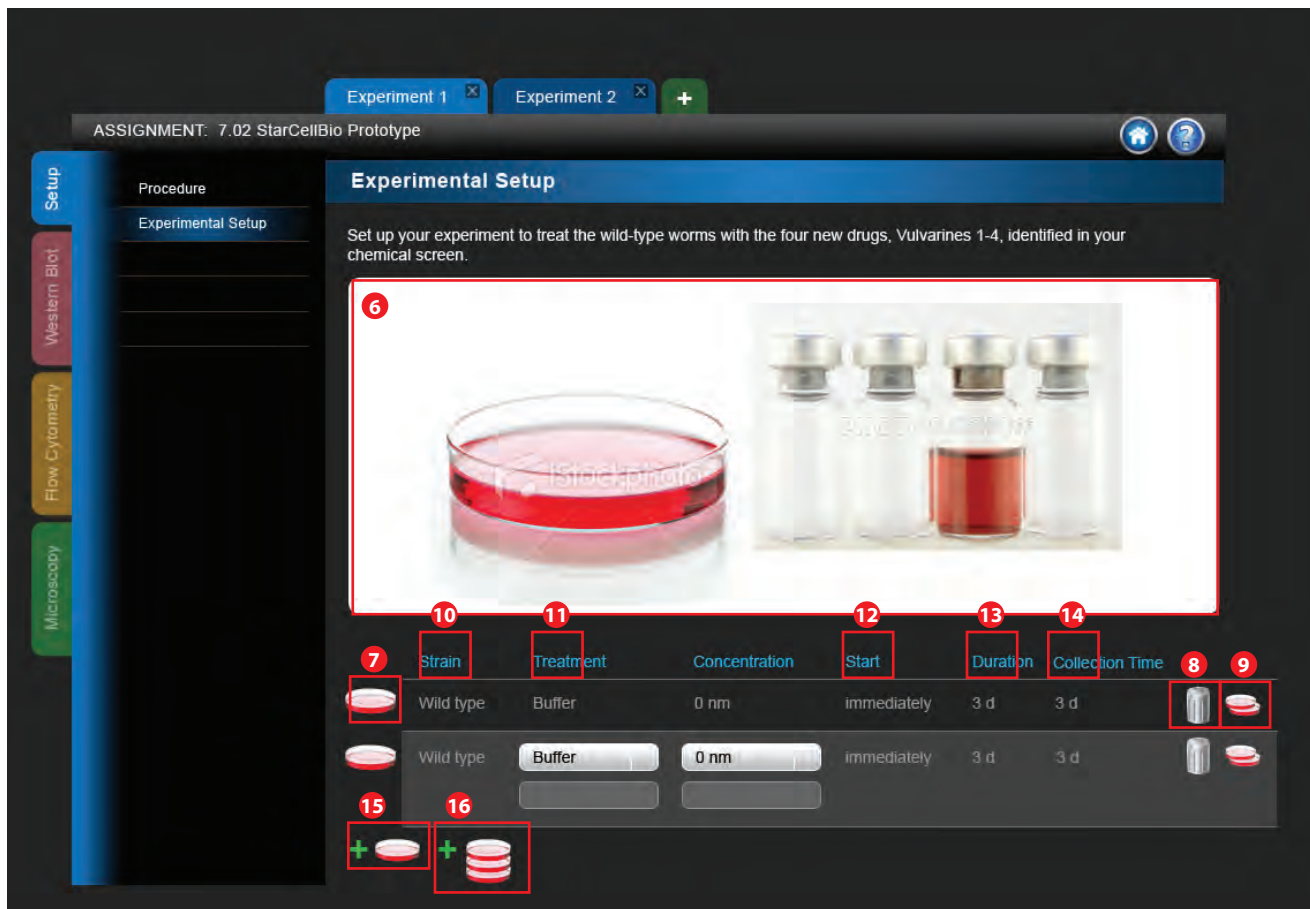
Go to experiment

- 3 Home button
- 4 Help button
- 5 4 vials graphic

Suggest not creating the Notebook or Ask a Post Doc buttons until those features are ready to be made--the icons should look like the features, so creating icons now could be time wasted.

Suggest having banners be color gradients rather than graphics. This will allow more time to be spent on other aspects.

## Setup Page



- 6 Image representing what you are doing (this is my suggestion to give the learner a frame of reference)
- 7 Petri dish icon
- 8 Trash button
- 9 Copy button
- 10 Strain icon
- 11 Treatment icon (vial)
- 12 Start icon (clock)
- 13 Duration icon (clock with time shaded)
- 14 Collection Time Icon (clock with tube)
- 15 Add Treatment button
- 16 Add Multiple Treatments button

# Add Treatment Protocol(s) Popups

