

7.02 StarCellBio Prototype

7.03 Lorem ipsum



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Notebook



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ASSIGNMENTS

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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.





NOTEBOOK

Look up the proteins involved in the vulva development pathway and record which proteins you will use in your experiment.

OBJECTIVES

- 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.
- 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



