

# MODULE 2—THE RESULTS

## GENE EXPRESSION CHANGED BY COCAINE

### Data Presentation

Using Figure 4, determine fold change (gene activities).

	Salt Water	Cocaine
SIRT 1		
SIRT 2		

How does gene activity compare between salt water and cocaine for SIRT 1?

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Why did scientists use rats to test the effect of SIRT on the amount of cocaine rats took?

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In Figure 5, how did SIRT blockers compare to SIRT boosters?

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Why is it important to know that SIRT blockers lower the amount of cocaine used?

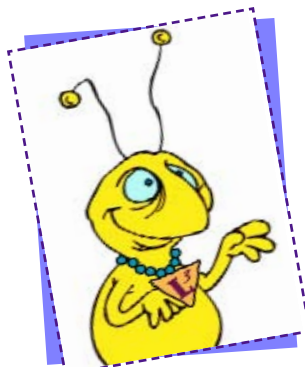
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**D'Cypher** is the real master when it comes to the data. There's no one better to have on the team when it comes to sorting out the numbers.



### Nature of Data Collection

- Self Reported
- Clinical Setting
- Interview in Person
- Phone Interview
- Questionnaires
- Lab Procedures

Check all that apply and explain how each might affect the results?

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### Graphs

Use data from the Figure 5 Graph to create a data table on the following page.

Is the graph or data table better to display the data? Explain.

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Use **Figure 5 Effects of SIRT on Cocaine Self-Administration in Rats** to create a data table below. Be sure to include a complete title and column headers.



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