

MODULE 1—THINKING ABOUT THE STUDY

GENE EXPRESSION CHANGED BY COCAINE

D'Scerner and her L'ete group must deal with this preliminary information to help clearly discern the facts of this case.

D'SCERNER, THE LIFE-LONG LEARNER STUDENT GRAPHIC ORGANIZER



General Information:

Name of Study Genetic Analysis Shows Gene Expression is Changed by Cocaine –
Parts I and II

First Author _____

Funders _____

Institution(s) _____

Disclaimers/Disclosures _____

Health Science Content _____

Describe the test subjects of the study _____

Purpose of study _____

Design of Article

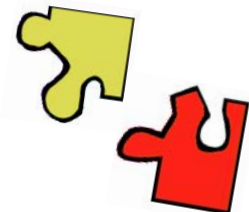
Newspaper

Peer-Reviewed Journal

Interview

Magazine

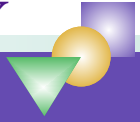
Web Article/Blog



Words to Define _____

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ETHICAL TREATMENT OF TEST SUBJECTS

Why is it important to treat test animals with respect? _____

What type of information should laws guiding treatment of test animals include? _____

STUDY DESIGN

After reading your article, determine if the study was an **observational** or **experimental** study. Then decide which study design was used and check the appropriate box. Explain your choice in the space provided.

OBSERVATIONAL CHECK LIST

- Case Report
- Case Series
- Cross Sectional
- Case-Control Study
- Cohort Study



Observational-Explain Your Choice

Why is this important to know?

EXPERIMENTAL CHECK LIST

- Intervention Study
- Randomized Controlled Trial



Experimental-Explain Your Choice

Why is this important to know?



D'Ziner is a master at identifying the basic design in any study. He hones in on clues and puts them together to reveal the true design of any study.



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D'Riddler takes the lead in identifying the study variables, bringing the group one step closer to the heart of this study.

STUDY DESIGN

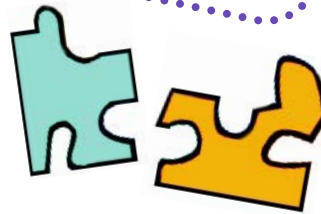
Identify Variables in the Study



Identify Dependent Variable of study

Identify Independent Variable of study

Identify Controlled Variables of study



STUDY DESIGN

Sources of Bias



D'Isabler uses her well-honed super sleuthing skills to detect and disable any sources of bias that might affect the results of this study.

Sponsors, Funders, Target Audience, Predetermined study goals –
How might each of these affect the results of the study?

How did the research team handle any possible impact on the study from factors such as conflict of interest?

