

# EXPERIMENTAL DESIGN

Experimental design refers to the systematic approach and structure employed in conducting scientific experiments to investigate cause-and-effect relationships between variables.

## DEFINITION

Experimental design involves the careful manipulation of an independent variable while controlling and measuring other variables to assess their impact on the dependent variable. It is considered better than observational design when it comes to inferring cause-and-effect.

## TYPES

- **Quasi-experimental design** includes some control over variables but falls short of the random assignment of participants to conditions.
- **True experimental design** incorporates random assignment of participants to different conditions, allowing for stronger causal inferences to be made.

# Statistical Design Analysis Experiment

**VM Jensen**



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web questions the main parts the endoplasmic reticulum is a core organelle that plays a role in producing processing and transporting proteins and lipids specialized organelles chloroplasts contain a green pigment called chlorophyll in the first step of photosynthesis the chloroplasts capture sunlight when molecules of chlorophyll absorb energy

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web 1 plasma membrane a selective barrier which encloses a cell plant and bacteria cells also contain a cell wall 2 cytosol located inside the plasma membrane this is a jelly like fluid that supports organelles and other cellular components 3 cytoplasm the cytosol and all the organelles other than the nucleus 4

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web answer key cell city introduction floating around in the cytoplasm are small structures called organelles like the organs in your own body each one carries out a specific function necessary for the cell to survive imagine the cells as a miniature city

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function 1 stores material within the cell 2

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web cells organelles answer key directions match the function cards and memory items by gluing them into the correct locations in the chart below organelle function description how can i remember it cell membrane controls what comes into and out of a cell found in plant and animal cells cell wall ridged outer layer of a plant cell

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web the plant cell has a cell wall instead of a cell membrane the plant cell has chloroplasts while the animal cell does not the plant cell is rigid because of the cell wall 8 multiple choice which is the cell organelle is the storage center for food water and waste none out of them all 9 multiple choice

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web 4 transports materials within the cell vesicles 5 the region inside the cell except for the nucleus cytoplasm 6 organelle that manages or controls all the cell functions in a eukaryotic cell nucleus 7 contains chlorophyll a green pigment that traps energy from sunlight and gives plants their green color chloroplast 8 digests excess or