

AQA Biology A-level

RP10 - Investigating Simple Animal Responses

Flashcards

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How can a choice chamber be used to measure the favourable environment of a small organism?



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By setting up chambers in different quadrants with different environmental conditions: dark + dry, dark + damp, light + dry, light + damp

Organisms will move to the quadrant they find favourable



What factors must be controlled when repeating the experiment?



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Number of animals

Environmental conditions

Time allowed for animals to choose



Which statistical test is used to analyse the results of this practical and why?



Which statistical test is used to analyse the results of this practical and why?

Chi squared test.

It compares the expected and observed values, and tests if there is a significant difference.



What is the conclusion drawn if the calculated value is greater than the critical value?



What is the conclusion drawn if the calculated value is greater than the critical value?

Null hypothesis is rejected.

Less than 5% probability that the difference is due to chance alone.

There is a statistically significant difference between the expected and observed values.



What do animals do when they are in unfavourable environments?



What do animals do when they are in unfavourable environments?

They move faster and change direction more frequently to increase their chances of survival.



State the hazard and precaution involved in this practical.



State the hazard and precaution involved in this practical.

The live organisms used are a biohazard. Wash hands after handling.

