Custom Lab Report Outline

"Slime Mold" Lab Report

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Abstract

The *Dictyostelium purpureum* was plated on different media containing (1) *Escherichia coli* (2) bread (3) potato (4) banana (5) sugar and glucose and (6)water. Fruiting body formation was observed or all colonies with die-off at water alone. There was observable migration or selective chemotaxis for diet preferences for E. coli and simpler sugars.

I. Introduction.

The *Dictyostelium purpureum* (Domain: Eukarya; Phylum: Amoebozoa; Class Mycetozoa, Order Dictysliida) belongs to a group of dictyostelids which is known as cellular slime moulds. Their life consists of two stages — the amoeba and slug phase. […]
The lab exercises on *Dictyostelium purpureum* which is plated on different meadia bearing different "food". The response of *Dictyostelium* sp. and the life cycle was observed on the different nutrient media.

II.Methods:

Using aseptic techniques, same amount of fresh, young culture of *Dictyostelium purpureum* was plated on different media containing the subsequent nutrition: Petri plate (1) *Escherichia coli* (2) bread (3) potato (4) banana (5) sugar and glucose and (6) water […]
All observations to be recorded on Table "Number of Fruiting Bodies and Observation of *Dictyostelium purpureu".*

III. Results and Discussion:

The life cycle of *Dictyostelium purpureum* and its influence and response to different nutrient media – results are recorded in the Table "Number of Fruiting Bodies and Observation of *Dictyostelium purpureu"* and analyzed in details.

IV. Conclusion

Dictyostelium purpureum exhibit fruiting formation during asexual stage as response to food scarcity. Migration at different parts of the plate are indicative of chemotactic response and the organism is partial to *E. coli* and simpler sugars […]

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