**Name** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **Date**\_\_\_\_\_\_\_\_\_\_\_\_\_ **Period**\_\_\_\_\_\_\_\_\_\_\_ **Lab Binder #**\_\_\_\_\_\_\_

**LAB TITLE: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Question/Prompt**

Plants have chemical (medicinal) properties that can have an effect on cell regeneration in animals.

**Hypothesis:** *(Write a hypothesis that shows you agree or disagree with this statement)*

**If\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Then\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Because\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Experiment**

**Variables:**

**Controlled:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Independent:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Dependent:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Materials:**

3 Petri Dishes 3 Planaria 1 Plant Extract 3 Medicine cups 1 Pipette

Paint Brush 10 mL Graduated Cylinder 1 Beaker of 150 mL Conditioned H2O Straight Razor Blade Goggles Sharpie/Label tape

**Procedures: See Lab Binder**

**Assigned Jobs:** *(Circle the one assigned by your teacher)*

**#1 Recorder #2 Observer #3 Surgeon #4 Solutions Manager**

***Recorder:*** *In charge of**steps #2-#3, #12, properly setting up station for next class, & recording data during incubation period*

***Observer:*** *Make sure everyone is wearing goggles, Step #11, properly disposing of non-reusable items, & collecting plates on incubation days*

***Surgeon:*** *In charge of steps #6-#10, & putting petri dishes away during incubation days*

***Solutions Manager:*** *In charge of preparing solutions (Step #5), putting petri dishes away & making sure everyone does their job correctly*

**Results**

**Data Table:**

**Chemical Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Circle one: Infusion OR Decoction**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Concentration of liquid**  (Manipulated Variable) | **Day 1**  **Signs of growth**  **Yes or No**  (Circle One) | **Day 2**  **Signs of growth**  **Yes or No**  (Circle One) | **Day 3**  **Signs of growth**  **Yes or No**  (Circle one) | **Average**  **Signs of growth**  (Calculate the Average of Yes marks) |
| **10 % Solution** | **Y or N** | **Y or N** | **Y or N** | **\_\_\_/3 Yes answers** |
| Qualitative Notes |  |  |  |  |
| **5% Solution** | **Y or N** | **Y or N** | **Y or N** | **\_\_\_/3 Yes answers** |
| Qualitative Notes |  |  |  |  |
| **1% Solution** | **Y or N** | **Y or N** | **Y or N** | **\_\_\_/3 Yes answers** |
| Qualitative Notes |  |  |  |  |
| **Water Control** | **Y or N** | **Y or N** | **Y or N** | **\_\_\_/3 Yes answers** |
| Qualitative Notes |  |  |  |  |

**Observations:**

**\_\_\_\_\_ % of \_\_\_\_\_ % of \_\_\_\_\_ % of \_\_\_\_\_ % of**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**DAY # \_\_\_/DATE\_\_\_\_\_\_ DAY # \_\_\_/DATE\_\_\_\_\_\_ DAY # \_\_\_/DATE\_\_\_\_\_\_ DAY # \_\_\_/DATE\_\_\_\_\_\_**

**DAY # \_\_\_/DATE\_\_\_\_\_\_ DAY # \_\_\_/DATE\_\_\_\_\_\_ DAY # \_\_\_/DATE\_\_\_\_\_\_ DAY # \_\_\_/DATE\_\_\_\_\_\_**

**DAY # \_\_\_/DATE\_\_\_\_\_\_ DAY # \_\_\_/DATE\_\_\_\_\_\_ DAY # \_\_\_/DATE\_\_\_\_\_\_ DAY # \_\_\_/DATE\_\_\_\_\_\_**