**Ding Dong Cloning Lab**

**Time:**  40 mins ( discussion + lab)

**Objective:**  Students will demonstrate the process of cloning and describe the purpose of cloning.

**Supplies:**

* Ding Dong- 1 per student ( or something with a filling) ***Egg cell***
* Small straws- 1 per student ***small pipette***
* Napkin- 1 per student ***Petri dish***
* One 16 oz tub of Cool Whip + mixed with food coloring ***Donor cell* *nucleus***
* Small Dixie Cup- 1 per student ***Donor cell***
1. Discuss the basics of cloning prior to the lab
2. Then go through and explain the new tools we will be using.

**Directions**

1. Holding the Ding-Dong ( egg) with the blunt pipette ( students hand) pierce the egg with the sharp pipette ( straw) and suck out the nucleus (cream) from the cell.
2. Suck the nucleus out of the donor cell and insert it into the egg cell.
3. “ Don’t break the egg open completely ( damaged cells won’t survive etc)

After students have inserted the donor nucleus into the egg cell, have the students break open the egg cell and look to see if they completely filled the ding-dong.

Ask the following questions of the groups

* **What does the ding dong represent?**
* **What does the cup represent?**
* **Why do we have to take the nucleus out of the ding dong first?**
* **What will the ding dong grow up to be? ( a cup or a ding dong? ) why?**