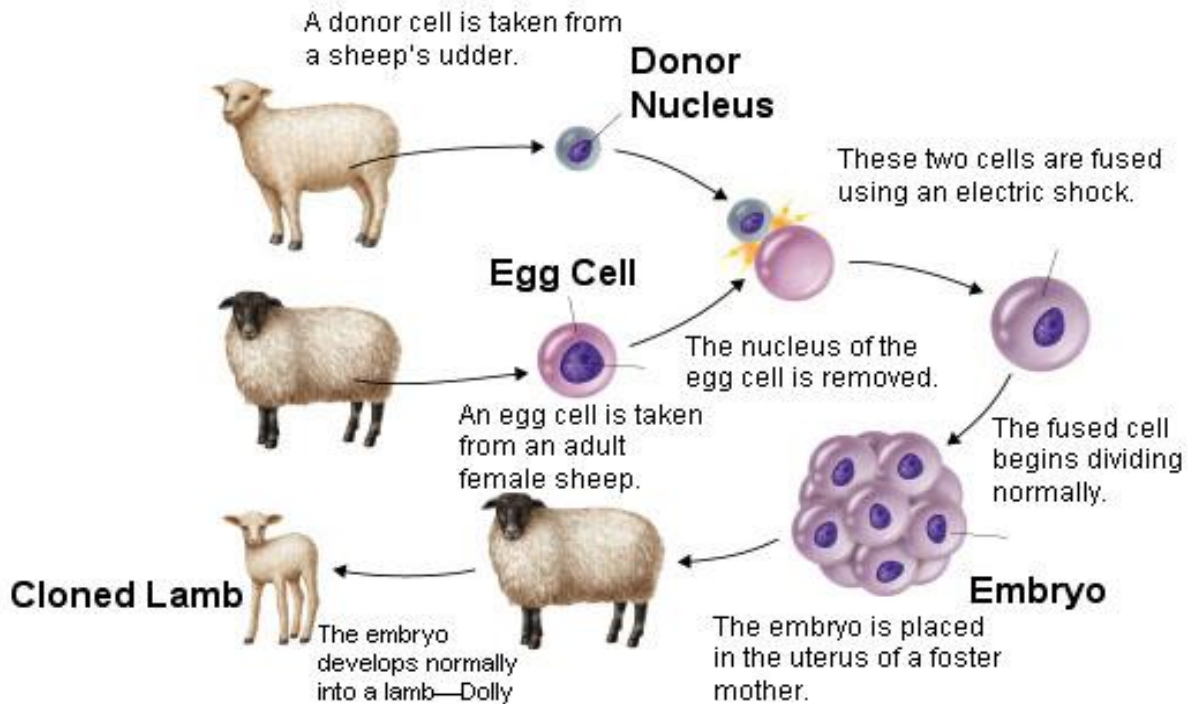


### SBI 3C: REPRODUCTIVE TECHNOLOGIES

#### CLONING:

- Way to produce a \_\_\_\_\_ organism through \_\_\_\_\_ means
- Used to produce \_\_\_\_\_ for many years (using \_\_\_\_\_)
- Public notice: \_\_\_\_\_ with birth of first \_\_\_\_\_
  - ▶ \_\_\_\_\_
    - ▶ First mammal to be \_\_\_\_\_ from a \_\_\_\_\_
  - ▶ Since Dolly, scientists have cloned \_\_\_\_\_
- ▶ Problems:
  - ▶ \_\_\_\_\_
  - ▶ \_\_\_\_\_

#### NUCLEAR TRANSPLANTATION:



#### WHY CLONE?

- ▶ to \_\_\_\_\_ produce organisms with \_\_\_\_\_ qualities
  - ▶ Example: \_\_\_\_\_ have been \_\_\_\_\_ to produce \_\_\_\_\_
- ▶ To replace \_\_\_\_\_ or \_\_\_\_\_ family pets
- ▶ Repopulate \_\_\_\_\_ or even \_\_\_\_\_ species

### CONTROVERSY:

- ▶ After Dolly, controversy arose surrounding \_\_\_\_\_, \_\_\_\_\_ and \_\_\_\_\_ use of cloning
- ▶ People for cloning think it could be used to replace \_\_\_\_\_ relatives or \_\_\_\_\_ from a clone to remove the chance of \_\_\_\_\_

### CONTROVERSY CONTINUED:

- ▶ But not everyone liked the idea of cloning
- ▶ To create Dolly, scientists performed the experiment \_\_\_\_\_ times, which means many \_\_\_\_\_
- ▶ Cloning could be used to \_\_\_\_\_ more people to a certain \_\_\_\_\_, political party, \_\_\_\_\_, background, \_\_\_\_\_, \_\_\_\_\_, special talents
- People could select \_\_\_\_\_ for their \_\_\_\_\_
- To \_\_\_\_\_ organs, would have to \_\_\_\_\_ the clone

### CANADIAN LAWS:

- In \_\_\_\_\_, a bill was passed that states "No person shall \_\_\_\_\_ create a \_\_\_\_\_ clone by using any \_\_\_\_\_," which would include \_\_\_\_\_ cloning, a technology researchers believe could lead to revolutionary \_\_\_\_\_.
- Therapeutic cloning is based on the concept that the best way to get \_\_\_\_\_ cells that are a perfect \_\_\_\_\_ for a patient -- thereby preventing \_\_\_\_\_ -- will be to create a \_\_\_\_\_ of that patient, develop the \_\_\_\_\_ to around \_\_\_\_\_ cells, then \_\_\_\_\_ the stem cells
- Researchers consider the technique promising for treating \_\_\_\_\_

### IN-VITRO FERTILIZATION:

- Approximately \_\_\_\_\_ of couples are affected by \_\_\_\_\_
- More than \_\_\_\_\_ babies have been born as a result of using the \_\_\_\_\_ technique
- \_\_\_\_\_ baby was used to describe babies born by \_\_\_\_\_
- Used for women with \_\_\_\_\_ problems or males with \_\_\_\_\_ problems
- Costs approximately \_\_\_\_\_
- Only covered in Quebec

### IVF PROCESS:

- Women take \_\_\_\_\_ to prepare their \_\_\_\_\_ and \_\_\_\_\_ for \_\_\_\_\_
- A man's \_\_\_\_\_ and woman's \_\_\_\_\_ are \_\_\_\_\_ in a \_\_\_\_\_ in a lab
- The resulting \_\_\_\_\_ is \_\_\_\_\_ to the woman's \_\_\_\_\_ to \_\_\_\_\_ and \_\_\_\_\_
- Usually \_\_\_\_\_ are \_\_\_\_\_ at a time

### ARTIFICIAL INSEMINATION:

- \_\_\_\_\_ is artificially \_\_\_\_\_ into a woman's \_\_\_\_\_ or \_\_\_\_\_
- Semen to be \_\_\_\_\_ is "\_\_\_\_\_ " in a laboratory, \_\_\_\_\_ the semen and removing any \_\_\_\_\_
- The semen is \_\_\_\_\_ into the woman, and if the procedure is \_\_\_\_\_, she conceives.