

Snuppy is the **first cloned dog!** To achieve Snuppy, a team of scientists led by Woo-Suk Hwang were faced with the tedious task of reproductive cloning.



First, they took a skin cell from the ear of a three year-old Afghan hound they hoped to clone.

Then they surgically removed eggs from over one-hundred female dogs of various breeds. These eggs were enucleated and the nucleus (which contains the genetic information) of the Afghan hound's skin cells were transferred into the empty eggs.



This process of enucleation and renucleation requires incredible dexterity and precision. Professor Hwang attributed his scientists skill to years of using slippery chopsticks.

An electric shock to this modified egg causes it to begin to divide like a normal embryo. The scientists successfully created 1,095 cloned embryos.



Using 123 surrogate mothers of various breeds, 5-12 cloned embryos were implanted into each dog. Snuppy's surrogate was a yellow Labrador retriever.

Out of 1,095 implanted embryos, only three pregnancies resulted. One miscarried, and two were born. Sadly, the other pup died from pneumonia after 22 days. Happily, Snuppy survived! Professor Hwang and his team had successfully cloned man's best friend.

