



## Teacher Guide: Let's Clone a Mouse, Mouse, Mouse . . .

### ACTIVITY OVERVIEW

**Abstract:**

Somatic Cell Nuclear Transfer (SCNT) is a cloning method that involves transferring a nucleus from a somatic cell of the individual to be cloned to an enucleated egg. This activity simulates, step-by-step, the Honolulu technique for SCNT used by researchers at the University of Hawaii. It allows students be the scientist and carry out SCNT via paper illustrations.

**Module:**

Cloning in Focus

**Key Concepts:**

Somatic cell nuclear transfer, cloning, somatic cell, enucleated cell, morula, artificial embryo twinning

**Materials:**

Student handouts, scissors, tape, crayons/colored pencils/markers

**Prior Knowledge Needed:**

At least a basic knowledge of cell structure and the function of the nucleus and cytoplasm. The nucleus contains the information (DNA, in the form of genes on chromosomes) related to inheritance of traits. The cytoplasm contains the machinery (organelles, proteins, etc.) for the cell to carry out its functions. Artificial embryo twinning is a technique in which a very early embryo is manually separated into individual cells, each of which develops into a "twin".

**Appropriate For:**

Ages: 12 - 16

USA grades: 7 - 12

**Prep Time:**

30 minutes (copying and review time)

**Class Time:**

45 - 70 minutes

**Activity Overview Web Address:**

<http://gslc.genetics.utah.edu/teachers/tindex/overview.cfm?id=howclone>

Other activities in the *Cloning in Focus* module can be found at:

<http://gslc.genetics.utah.edu/teachers/tindex/>

# Lets Clone A Mouse Mouse Mouse

**Wolfgang Guggemos**



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