

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

Seth Resnick, Jamie Spritzer



Lets Clone A Mouse Mouse Mouse:

3ds Max Basics for Modeling Video Game Assets: Volume 1 William Culbertson, 2019-04-15 A textbook for learning 3d modeling fundamentals this step by step lesson book develops the readers modeling skills through a series of modeling exercises creating modules for a medieval castle environment As the text introduces new modeling skills it additionally calls on the reader to perform repetitive tasks reinforcing skills learned in the process The content is presented as if the reader is in a working video game studio being responsible for researching asset design providing the team with placeholder assets and final model assets that are unwrapped and custom textured Upon completion of the modeling projects the modeled environment is exported to the Unity game engine for use in a real game environment Although the text uses Autodesk 3ds Max for the modeling program the principals are transferable to other major modeling programs Key Features The goal of this book is to teach the fundamentals of 3d modeling video game assets in a simplified logical progression optimized for learning at a beginner level This series of modeling exercises is the result of having taught over one thousand video game students the fundamentals of 3d modeling Often teachers are not fully trained in teaching the concepts of 3d modeling This text written for self paced learning helps those instructors Includes instructions and project files for exporting the finished project environment into a 3d game engine Unity Appendices include additional 3ds Max tool instructions A companion site includes working 3ds Max project files for Chapters a 3ds Max user interface and 3ds Max short cut keys and more

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books available Its initial appeal for photographers has been transcended the basic principles the authors teach apply to all Photoshop users particularly more advanced users and the advent of digital photography has further boosted the book s popularity *Science* John Michels (Journalist),2010 **Photoshop Artistry** Barry Haynes,Wendy Crumpler,1995 The first book to address the needs of a rapidly expanding segment of the Photoshop 3 0 market high end users such as photographers artists and imaging professionals Photoshop Artistry is a self paced hands on course that teaches the process of creating digital art The CD contains original and final images as well as masks layers and channels used to complete the exercises

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5 for Windows Ben Sawyer, Joann Meyer, 1998 Paint Shop Pro is a low end Photoshop style package and is the most popular image editor available for Windows Paint Shop Pro 5 is the latest version and this guide explores the application's improved support for layers new animation wizards support for over 40 file formats multiple levels of undo and much more **The**
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