Intended students:

AP Biology students

College students in introductory biology and genetics classes

Purposes

1. To understand how transcription factors enhancers function in gene regulation
2. To understand how genetic hierarchies can control differentiation
3. To understand the basics of mammalian sex determination

Instructions for Sex Determination Game

Preparation: Print out Powerpoint at 3 or 4 slides per page

Cut out “cards” and tape or staple to index cards.

Make a set of cards for each “team” in the class.

Playing the game.

Shuffle the cards

Tell students to start with the XY makes SRY Protein and XX doesn’t make SRY Proteins cards.

Students have to put both sets of cards in order starting with the cards above and ending with “It’s a boy” and “It’s a girl”.

First team to get the sequences correct wins!