

## **Evolution of the Y Chromosome: Why Is It So Much Smaller Than The X?**

**By Kathy Feinstein, Cheltenham High School, Wyncote, PA**

### **Objective:**

Students will learn why there are differences, both structural and functional, between X and Y chromosomes.

**Utilizing:** Sex Determination Lecture **#4, *Sexual Evolution: From X to Y***  
Video Clips **E** (Sperm Motility) and **F** (ICSI)

**Pre-Teach:** Human Reproduction

**Ability Level:** Academic/Honors (may be modified to be appropriate for lower ability students)

### **Methods/Materials:**

- 1) View Lecture **#4**, and review Video Clips **E & F**
- 2) Assignment – Students will independently research a 30-year history of infertility diagnosis and treatment until present day. They will find information regarding increasingly more sophisticated and effective technologies. Each student will submit a decade-by-decade review of the important technological advances in this field of medicine, providing at least 1 medical or technological advancement (or piece of helpful information) per decade having to do with diagnosis or treatment of infertility.