

# 普通生物學實驗

## General biology laboratory

- 課程名稱: 影片欣賞 遺傳基因  
有關減數分裂、繁殖、與早期胚胎發育  
**Making Babies: Genetically Correct**
- 授課教師名稱: 阮淑慧  
受務單位: 醫學系生理學科
- 聯絡方式: 北醫醫綜大樓九樓, 27361661 ext.  
**3178**

學習目標: 經由影片欣賞，認識新科技如何篩選胎兒是否罹犯遺傳性疾病 並如何安全植入健康的胚胎以確保胎兒的健康。

資料來源: **Discovery Channel Video** (生育科學系列)

**Summary: a series of biotechnological processes to select embryos free of inheritance diseases.**

## “Making Babies: Genetically Correct”

The second video you are going to watch is “Making Babies: Genetically Correct” As you watch this video, you will find out the incredible biotechnologies to select embryos free of inheritance diseases. Please concentrate on watching this video and answer the following questions. Some of these questions will appear on the final exam.

### ANSWER THE FOLLOWING QUESTIONS AS YOU WATCH THIS VIDEO

1. How many genes do we have in our chromosomes?
2. What method can be used to treat the couples having no baby?
3. What is the chance to have a child inherit recessive disease?
4. What is the average number for each individual to obtain mutated genes?
5. What are the recessively inherited disorders given in the DVD of “Making Babies: Genetically Correct”

- 6. How many eggs can a woman produce during her life time?
- 7. What drug is used to stimulate many follicles to mature and ovulate before IVF?
- 8. What hormone is used to stop normal hormone activity in ovaries during IVF?
- 9. What is the complication of having a SMA disease?
- 10. What is the common complication of having Fanconi's disease?
- 11. What is the best therapy for Fanconi's anaemia?
- 12. Who and when is the first test tube baby made?
- 13. When does the Huntington chorea patient show the symptom?
- 14. When is the best timing for amniocentesis during pregnancy?
- 15. What is the basic protocol of making a genetic-corrected baby?
- 16. What is the best stage to analyze genetic fingerprints for fertilized eggs?