

細胞生物學實驗 (LS282100)

Par II. Mammalian Cell Culture; Date: 11/18/2009 to 01/13/2010

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操作考 (Mid-term Exam):

Cell culture techniques

期末考 (Final Exam):

All lecture content

Presentation of all experimental results

Reference:

1. Morgan, K. S. 2000. Current Protocols in Cell Biology, Wiley-Liss, New York
2. Freshney, R. I. 2000. Culture of Animal Cells. A Manual of Basic Techniques, Wiley-Liss, New York
3. Becker, W. M. 2003. The world of the cell.
4. 細胞生物學實驗手冊 李素文 主編 九州圖書文物有限公司
5. 組織培養和分子細胞學技術 鄂徽 編 九州圖書文物有限公司

評分 (Grading):

Lab performance (20%)

Mid-term Exam (30%)

Final Exam (30%)

Presentation (20%)

注意 (Note): 原則上, 未交報告、未參加小考、期末考、期末報告, 那部份成績以零分計。如有特殊原因請假, 請依校方規定辦理, 無故缺課一次, 將扣總分3分。在實驗室裡不准吃與喝食物。在實驗室裡, 請穿實驗衣。In principle, missing report, without attending quiz, final exam or presentation, the score for that part will be zero. If you need to take time off, please follow the university rule. Missing a class will result in deducting the final grade of 3. No eating and drinking in any laboratory at all time. Please wear lab coat while in the laboratory.

細胞生物學實驗

課程安排

日期	日期	課程內容
4/27	4/28	Lecture: 介紹助教, 生圖看錄影帶, 儀器, 器材, 實驗室介紹, 學期評分說明 Lab: Clean culture room, practice using pipetaid, pipetman, practice sterile techniques
5/04	5/05	Lecture: 介紹光學顯微鏡 (助教)、介紹動物細胞培養、介紹培養基成分 (陳令儀) Lab: 配製培養基、觀察細胞、餵養細胞
5/11	5/12	Lecture: 細胞繼代培養、細胞計數、凍細胞、解凍細胞之方法 (陳令儀) Lab: 觀察細胞、細胞繼代培養、細胞計數、凍細胞、決定細胞生長曲線
5/18	5/19	Lecture: 介紹細胞骨架及螢光免疫染色之方法 (陳令儀), 介紹螢光顯微鏡及其使用方法 (助教) Lab: 解凍細胞、觀察細胞
5/25 to 5/28	5/26 to 5/28	Lecture: 操作考 (2h) Lab: Staining actin cytoskeleton structure of COS-7 cells with rhodamine phalloidin, taking images (please make reservation and show up on time to use the microscope)
6/1 to 6/4	6/2 to 6/4	Lab: Staining actin and neuronal tubulin structure of differentiated PC12 cells, taking images (please make reservation and show up on time to use the microscope)
6/8	6/9	Final exam
6/15	6/16	端午節休假
6/22	6/23	Presentation of all experimental results