

Course Objective: It's an advanced lecture of cell biology in cell migration. This lecture is expected to bring frontier researches to graduate students in cell migration through the study in different model systems. Furthermore, the updated translational research in genetic diseases and cancer metastasis will be included.

Course Format: It consists of weekly meetings of **3 hours** in duration and each topic will be covered with instructive presentation by the faculty. Assigned papers will be presented by the students in the next two hours.

Grading Criteria: Students are evaluated based on attendance and classroom performance (20%), paper presentation (60%), and Final report (20%).

Time: **Friday 9:10-12:00**

上課教室: **生科院大樓-89A16**

Coordinator: 張純純 (Anna Jang) Tel : 06-2757575 ext. 65627 ext.808, EMAIL: ccjang@mail.ncku.edu.tw

Date	Topic	Presentation/ Question	Lecturers
09/11	Introduction		Anna C-C Jang
09/18	課程準備		Anna C-C Jang
09/25	Adhesion molecules in cell migration		Anna C-C Jang
10/2	中秋節(放假)		X
10/9	調整放假		X
10/16	Extracellular matrix in cell migration		Anna C-C Jang
10/23	Small GTP binding proteins in cell migration		Anna C-C Jang
10/30	Chemotaxis		Anna C-C Jang
11/06	Actin dynamics		Anna C-C Jang
11/13	校慶週放假		X
11/20	Polarity proteins in cell migration		Anna C-C Jang
11/27	Control of cell migration during <i>Caenorhabditis elegans</i> development		Chang-Shi Chen 陳昌熙老師
12/04	Cell migration in <i>Drosophila melanogaster</i>		Anna C-C Jang
12/11	<i>Drosophila</i> as a disease model		Anna C-C Jang
12/18	Cell migration in Zebrafish		盧福翊老師
12/25	Glial migration		Y. Henry Sun 孫以瀚老師
01/01	開國紀念日(放假)		X
01/8	Submit term paper		Anna C-C Jang