生命科学学院

暑期学校课表

1. 暑期学校上课时间自 6 月 27 日开始，选课系统、选课手册中的课程安排与本课表不同之处，课程安排以本课表为准；
2. 选课开放时间为 6 月 20 日 9 点至 6 月 21 日 24 点，只有正选，没有预选和预处理，选课系统关闭后，不再进行选、退课操作；
3. 暑期学校课表：

序号	课程名称	上课班级	上课时间	上课地点	任课教师	选课序号
1	生理学	伯苓 （选课人数上限 30 人）	6 月 27 日-6 月 30 日（王世强）、 7 月 1 日（李莲）、 7 月 4 日-7 月 6 日（罗冬根）、 7 月 7 日（李莲）： 上午 8:55-11:40am（三节） 下午 2:00-3:40pm（二节） 7 月 8 日（李莲）： 上午 8:55-11:40am（三节）	线上教学	王世强 罗冬根 李莲	0004
2	生命科学前沿研讨	生科院全体 （选课人数上限 20 人）	6 月 27 日—6 月 30 日、 7 月 4 日—7 月 7 日： 下午 5:00—6:40pm	线上教学	外籍专家：Andrea 助教：于凡	0003

生命科学前沿研讨课程简介（**Andrea**）

1. A brief introduction about yourself.

My name is Andrea, I am Italian and I come from the city of Padua, about 25 km away from Venice. I have a Ph.D. in Molecular and Cell Biology and over the years I have done research in different areas (mitochondria, developmental biology, cellular and molecular biology). I studied at the University of Padua, allegedly the second oldest university in the world (founded in 1222). I worked for many years in the USA and then returned to Italy, where I started using Drosophila melanogaster to study the function of genes homologous to human disease genes. I taught general cell biology for many years and many seminar courses, a form of teaching that I particularly enjoy.

2. Introduction to this course.

The course is divided into two parts and focuses on the intracellular compartments of the eukaryotic cell (excluding the mitochondria and nucleus), the cytoskeleton, and their functional connections. In the first part (four two-hour lectures), we will look at cell membranes, their properties and functions, and discuss the compartmentalization of the cell by membranes. We will describe the structure and functions of organelles, especially the ER and the Golgi, and discuss how they perform these functions and how materials are sorted and transported between organelles. We will then provide an overview of the major components of the cytoskeleton and their functions, and how the cytoskeleton interacts with intracellular organelles. In the second part (four two-hour lectures), we will address a specific topic that you will not find in textbooks: how the complex shape of the endoplasmic reticulum is determined and regulated, and which molecules and processes are involved. This section will draw on literature. In class, we will study and discuss in detail some seminal publications (4 or 5, depending on time available) that have set the course in this area, and work out what we know and what we do not know. This approach has several advantages for students. It provides an opportunity to introduce other important topics in cell biology research, such as the use of model organisms, genetics, and specific techniques; it allows to illustrate the process of discovery in its many facets; it shows how to approach a scientific question and develop strategies to solve unsolved problems in cell biology using a real example.

3. Which platform would you like to use for this online course?

Zoom

4.考核形式：闭卷，25 道选择题

5.平时成绩：期末成绩=0% ： 100%