

科目名		Subject name	
Advanced Topics in Bioscience 【220302】		Advanced Topics in Bioscience 【220302】	
科目区分 (Course type)	単位数 (Credits)	選択・必修 (Elective/Compulsory)	授業形態 (Course format)
International Course (International Course)	1	必修 (Compulsory)	講義 (Lecture)
開講時期 (Course start)		講義室 (Room)	
1st or 2nd year		中セミナー室 C110 (C110 Medium Seminar Room)	

1. 科目の概要 (Course outline)

【担当教員 (Teacher)】	担当教員筆頭者名 (Supervising teacher)
大谷、中畑、渡辺、吉田、鳥山、田中、宮島、由利 (Ohtani, Nakahata, Watanabe, Yoshida, Toriyama, Tanaka, Miyashima, Yuri)	Hiroshi Takagi (Hiroshi Takagi)
【教育目的/授業科目 (Course objectives)】	
The course aims to offer students advanced knowledge and a broader perspective in biological sciences and to showcase diverse experimental approaches that may also be useful in students' own research projects.	
【指導方針 (Course methodology)】	
Eight top-notch staff scientists in Graduate School of Biological Sciences will give a lecture on their fields, from the research background to the latest topics, followed by discussion.	

2. 授業計画等 (Course plan)

	【テーマ (Topic)】	【内容 (Content)】
1回	Monday, May 22, 2017. Dr. Misato Ohtani	RNA metabolism regulation important for plant regeneration
2回	Thursday, May 25, 2017. Dr. Yasukazu Nakahata	Circadian clock and physiological functions in mammals
3回	Monday, May 29, 2017. Dr. Daisuke Watanabe	Mechanisms of high fermentation performance in <i>Saccharomyces cerevisiae</i> sake strains
4回	Thursday, June 1, 2017. Dr. Satoko Yoshida	Living strategies of parasitic plants
5回	Monday, June 5, 2017. Dr. Michinori Toriyama	The roles of cilia in development and disease
6回	Thursday, June 8, 2017. Dr. Yoshiki Tanaka	Structural and functional analysis of multidrug efflux transporter, MATE
7回	Monday, June 12, 2017. Dr. Shunsuke Miyashima	Intercellular communication during plant root development
8回	Thursday, June 15, 2017. Dr. Shunsuke Yuri	Kidney development and regeneration
【テキスト (Textbook)】		
【参考書 (Reference book)】		

3. その他 (Other information)

【履修条件 (Eligibility for this course)】
Students who are taking this class for credit need to have completed Molecular Cell Biology beforehand.
【オフィスアワー (Consultation times)】
【成績評価の方法と基準 (Grades/Evaluation)】
Evaluation will be based on in-class quizzes/reports.
【関連科目 (Related courses)】
Molecular Cell Biology
【注意事項 (Important information)】