Course Title	Introduction to Biomolecular Sciences
Registration Code	L100080001
Number of Credits	2
Years of Eligible Graduate Students	1-2
Semester	1st
Period	Mon. 1st
Room	C17-First lecture room　(Nakamozu Campus, OPU)
Instructors	Yoshihiro Imahori, Shinji Tanimori
Office hours	Fri. 2nd
Contact	imahori@plant.osakafu-u.ac.jp
Goals of the course	Applied life science is a comprehensive academic field to elucidates various functions and life phenomena which every organisms (animals, plants and microorganisms) constituting the earth life system have, as well as to contribute to further development of bio science and bio technology as its applied technology. This lecture is the basic lecture common to major courses and aims to understand the whole picture of applied life science and social significance by the professors belonging to their majors lecturing the outline and interactionship of each specialized academic field.
Textbooks	Not specified. References and documents will be presented as needed.
Books of reference	Be specified as needed.
Allied subject	
Homework (Preparing for the classwork)	
	Students must work the assignments specified in the class.
Course outline	To achieve the above target, the following lectures are held. 1. Fermentation control chemistry (Kataoka) 2. Biological reource circulation engineering (Sakamoto) 3. Chemistry of physiologically active substance (Akiyama) 4. Biopolymer functional science (Inui) 5. Food metabolism nutrition (Yamaji) 6. Food material chemistry (Kasai) 7. Microbial function development (Kawaguchi) 8. Biophysical chemistry (Kitamura) 9. Biocontrol chemistry (Tanimori) 10. Applied molecular biology (Sugimoto) 11. Cell metabolic function (Ohta) 12. Plant cultivation physiology (not decided) 13. Plant molecular breeding (Koizumi) 14. Plant biology protection (Ohki) 15. Plant breeding engineering (Yokoi) 16. Resource botany (Aoki) 17. Plant development physiology (Imabori)

Class schedule	1st	
	2nd	
	3rd	
	4th	
	5th	
	6th	
	7th	
	8th	
	9th	
	10th	
	11th	

	12th	
	13th	
	14th	
	15th	
	16th	
Evaluation	Evaluate comprehensively by the assignment specified in the class	