

Course Title	Advanced Chemical Ecology		
Instructor	Yoshito SUZUKI		
Code	MA051800	Semester	1st (April-)
Credit(s)	1	Day/Period	Fri, 4
Description Code	A-AGC-632		
Outline	All the study in the field of Chemical Ecology starts from isolation of bioactive compounds. In this class, the principles of various kinds of separation methods and their application to research will be focused. Each attender will offer commentary to a literature dealing with purification of chemical substances and all the attenders will participate in discussion to promote better understanding.		
Keywords	Solvent partitioning, counter current distribution, chromatography		
Goals	To understand the principles of various kinds of purification methods, and to study how to apply those methods to research. DP: 1 Academic and research skills in the specialized field		
Course Plan	1. solvent partitioning/counter current distribution/partition chromatography 2. reversed phase and normal phase/number of theoretical plates 3. reversed phase chromatography 4. solvents for chromatographies/ion pair chromatography 5. normal phase chromatography/ion exchange chromatography/size exclusion chromatography 6. Discussion on purification methods on published articles 7. Discussion on purification methods on published articles 8. term-end examination		
Advice for Preview and Review	Reviewing the previous course content is absolutely important to keep up with the next course content.		
Prerequisite	Those who take this class should have mastered basic chemistry. For example they should know the meanings of such terms as equilibrium constant, partition coefficient, etc.		
Grading Criteria	term-end examination		
Texts/References			