

Course Title	Advanced Bioregulation Chemistry		
Instructor	Morifumi HASEGAWA		
Code	MA050800	Semester	2nd (Oct-)
Credit(s)	1	Day/Period	Fri, 1
Description Code	A-AGC-612		
Outline	This course focuses on chemistry and biochemistry of phytoalexins and allelochemicals. Their structures and biosynthesis will be lectured based on review and original papers.		
Keywords	phytoalexin, elicitor, allelopathy		
Goals	Students will learn structures, biosynthesis, and recent research topics on phytoalexins and allelochemicals. Elements of Diploma Policy: 1. Academic and research skills in the specialized field		
Course Plan	<ol style="list-style-type: none"> 1. Guidance, Structures of Phytoalexins 2. Biosynthesis of Phytoalexins 3. Elicitors 4. Induction Mechanisms of Phytoalexins 5. Physiological Roles of Phytoalexins 6. Recent Research Topics on Phytoalexins 7. Structures and Biosynthesis of Allelochemicals 8. Recent Research Topics on Allelopathy 		
Advice for Preview and Review	Students must carefully read papers instructed in the class.		
Prerequisite	Questions are accepted via e-mail (morifumi.hasegawa.1@vc.ibaraki.ac.jp).		
Grading Criteria	Students will be graded based on their reports (100%).		
Texts/References	Textbook is not used. Papers will be distributed.		