Course	Agro-Biomedical Science Laboratory Seminar I
Course No.	0AVC101
Credits	1 Credit
Grade	1 Year
Timetable	Fall AB by appointment
Instructor	Yoshito Kumagai, Masao Ichikawa, Osamu Ohneda, Kazuya Morikawa,
	Ryosuke Ohniwa, Hiroshi Ezura, Chiaki Matsukura, Yuichi Yamaoka, Junichi
	Peter Abe, Yutaka Kitamura, Zheng Ling, Lombardo Fabien Claude Renaud,
	Yasuhiro Shinkai, Norihiko Obayashi, Atsushi Ishii, Masahiro Akiyama
Course Overview	In this course, students attend laboratory seminar of at least one instructor,
	and read the latest academic publications related to Food and Health,
	thoroughly understanding their research objectives, methodologies and
	results, then discuss the significance of the studies, problem areas, and
	remaining areas for further study. In some cases, it may be possible for
	students to similarly approach Innovation-related issues in another form than
	academic article. The instructors from University of Tsukuba will nurture the
	fundamentals of Health and Food sciences, evaluating biotic effects and safety
	of substances, etc.
Remarks	Conducted in English. For students of International Joint Degree Master's
	Program in Agro-Biomedical Science in Food and Health
Course Type	Seminars
Link between Course	To nurture the fundamentals (scientific basis and its implementation) for
Objectives and Activities	Agro-Biomedical Science such as ability to connect heath and food resources,
	abilities to connect engage in issues related health security, and ability to
	engage food security.
Academic Goal	1. To be able to survey the research topics of instructors.
	2. To be able to select the appropriate articles for their reading through use of
	major scientific publications and online search systems from available recent
	publications in the field.
	3. To be able to read and understand the selected articles, and summarize
	them to other students within a set allotment of time.
	4. To be able to listen and understand article presentations made by other
	students and discuss the significance of the research and any points of
	uncertainty that arise from it.
	5. To be able to describe/explain the significance of each article from the
	standpoint of Agro-Biomedical Science.
Course Schedule	Students need to attend at least 10 times seminar hosted by the following
	instructors. Students can chose the number of instructors if necessary.
	Students have to present at least one article selected by themselves in the 10
	times seminar.
	Theme 1: Environmental medical science (Yoshito Kumagai, Masahiro
	Akiyama )
	Theme 2: Global health (Masao Ichikawa)
	Theme 3: Stem cell biology (Osamu Ohneda)
	Theme 4: Bacterial genetics (Kazuya Morikawa)
	Theme 5: Integrated Study on Health Information (Ryosuke Ohniwa)
	Theme 6: Experimental Pathology (Ling Zhen)
	Theme 7: Molecular genetics and breeding (Hiroshi Ezura)
	Theme 8: Plant molecular breeding (Chiaki Matsukura)
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	Theme 13: Toxicology (Yasuhiro Shinkai)
	Theme 14: Cellular and physiological biology (Norihiko Obayashi)
	Theme 15: Water resources management (Atsushi Ishii)
Course Prerequisites	
and Advisories	
Grading Philosophy	Class participation (50%), presentation and discussion about the paper (25%),
(Percentage/ Criteria/	and report (25%).
Methodology)	Report theme is "Summary of the paper you introduce (one paper is enough),
	and its relation with global topics in Agro-Biomedical Science".
	Students need to attend at least 80% of classes for getting grade C.
	Grading Criteria is A+ (Superior), A (Excellent), B (Good), C (Average) and D (Failure).
	Grade C is for students who are be able to select articles for their
	presentation and report, and are also able to understand both the summary
	of paper/patent and the significance of the corresponding academic field.
	Grade B is for students who satisfy the criteria of grade A, and are able to
	have a constructive discussion in the seminar. Grade A is for students who
	satisfy the criteria of grade B, and understand the meaning of the
	paper/patent in terms of Agro-Biomedical Science. In addition, if a student is
	considered to be able to be extremely brilliant by accomplishing their goal
	comprehensively, he/she can get Grade A+.
Self-Directed Learning	Address issues introduced by instructors in the class room.
Other Than Coursework	
Textbooks, References	Distributed by instructors in class
and Supplementary	,
Materials	
Office Hours	Name: Yoshito Kumagai
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	Name: Osamu Ohneda
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	By appointment only
Other (i.e. Expectations	In the seminar, students are expected to join in the discussion.
on Classroom, Conduct	
and Decorum etc.)	
Related Courses	Research and Development for Agro-Biomedical Science I
	Agro-Biomedical Science Laboratory Seminar II
	International Scientific Seminars
Keywords	Paper presentation, Paper discussion