Course	Biomedical Translation Boot Camp
Course No.	01ER403
Credits	2 credits
Grade	1 st year
Timetable	Spring AB
Instructor	Prof. Tsai-Kun Li, Prof. Han-Yi E. Chou, Prof. Shu-Chun Teng, Prof. Chang-Chuan Chan, Prof. Hsinyu Lee, Prof. Ming-Ju Chen, Prof. Tang-Long Shen, Prof. Li-Deh Lin, Prof. Shih-Tong Jeng, Prof. Yen-Hsuan Ni
Course Overview	In this course, students plan and implement biomedical and translation research lab related to unmet needs of food security and global health and identify social and natural environment-related issues/challenges in R & D. aiming to provide basics and trainings for building and boosting skill sets of students for a community of solutions for the unmet needs. This boot camp aims to initiate and engage graduate students in a process to translate evidence-based medical care and food security into locally relevant and globally appropriate approaches and technologies, especially on the aspects of biochemistry and molecular biology. Students shall implement their own identified unmet needs and work optionally in the relevant labs while regularly holding discussions with course faculty members. After completion of combined course time, lectures and training with optional laboratory work, students must submit the report of research progress which will be evaluated by the course coordinators and respective instructors who host the students. The Bootcamp will conclude with a "Student Biomedical and Translational Research Symposium" open to all faculty, researchers and students. During preparation, MCB students will be provided with optional personal tutors/instructors.
Remarks	Conducted in English at National Taiwan University. A suggested pre-requisite for the students is the identification of unmet biomedical needs. Depending on their preparation, pre-requisitions and discussion with course coordinators, incoming students will be given "boot camp" courses and potential instructors.
Course Type	Practical training and experiments
Link between Course Objectives and Activities	To nurtured the fundamentals for 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, through attending laboratory practices hosted by instructors.
Academic Goal	 Students with a pre-identified unmet biomedical needs are expected to be equipped with crucial biomedical approaches and translational technologies to resolve these unmet needs. Students are anticipated to achieve a basic understanding in their identified areas in which they may have received formal education and research activities. Students will be able to plan and implement their field practicum work related to Food and Health; Students will be able to identify social and natural environment-related issues/challenges in R & D from their practicum experience; Students will be able to hold discussions with faculty and related persons about their ideas for their implementation plan.
Course Schedule	Students need to attend translational courses hosted by the following instructors and suggested activities (e.g. relevant symposium, lectures and seminars). Student can choose the desired instructor(s) (optional) to do practical training and experimental approaches. Students must attend and present at the final "Student Biomedical and Translational Research Symposium". Theme 1: Drug and health food product development (Prof. Tsai-Kun Li) Theme 2: Stem cell and nanobiotechnology (Prof.Han-Yi E. Chou) Theme 3: Genetics and Molecular Biology (Prof. Shu-Chun Teng) Theme 4: Environmental Epidemiology and Global Health (Prof. Chang-Chuan Chan)

	(国立台湾大学)
	Theme 5: Signal Transduction (Prof. Hsinyu Lee)
	Theme 6: Animal-based foodstuff (Prof. Ming-Ju Chen)
	Theme 7: Applied microbiology (Prof. Tang-Long Shen)
	Theme 8: Prosthodontics (Prof. Li-Deh Lin)
	Theme 9: Plant molecular biology (Prof. Shih-tong Jeng)
	Theme 10: Intestinal flora (Prof. Yen-Hsuan Ni)
Course Prerequisites	For Master's program in Agro-Biomedicine (GIP-TRIAD). For the 2 nd semester. To register in this
and Advisories	course, please first contact the coordinators in charge of the course.
and Advisories	course, prease mist contact the coordinators in charge of the course.
Grading Philosophy	Class participation (20%), presentation and discussion (20%), report and final presentation
(Percentage/ Criteria/	(50%) and evaluation of instructors and/or coordinators (10%).
Methodology)	Report and final presentation shall include summary of potential solutions of your pre-
Wethodology)	
	identified unmet needs and its relation with global topics in Food and Health.
	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).
Self-Directed Learning	Address assignments introduced by instructors in the classroom and during the lectures.
Other Than Coursework	Address assignments introduced by instructors in the classroom and during the rectures.
Textbooks, References	Introduced by Instructors in class and online website (e.g. CEIBA)
· ·	Introduced by instructors in class and offline website (e.g. CEIBA)
and Supplementary	
Materials	Names Buck Tool Kom Li
Office Hours	Name: Prof. Tsai-Kun Li
	E-mail: tsaikunli@ntu.edu.tw
	Name: Prof. Han-Yi E. Chou
	E-mail: hyechou@ ntu.edu.tw
	Name: Prof. Shu-Chun Teng
	E-mail: shuchunteng@ntu.edu.tw
	Name: Prof. Chang-Chuan Chan
	E-mail: ccchan8082@gmail.com
	Name: Prof. Hsinyu Lee
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	Name: Prof. Li-Deh Lin
	E-mail: lidehlin@ntu.edu.tw
	Name: Prof. Shih-Tong Jeng
	E-mail: stjeng@ntu.edu.tw
	Name: Prof. Yen-Hsuan Ni
	E-mail: yhni@ntu.edu.tw
	By Appointment Only
Other (i.e. Expectations	In the seminar, students are expected to join in the discussion.
on Classroom, Conduct	in the seminar, students are expected to join in the discussion.
and Decorum etc.)	Possarch and Davidanment for Agra Diamedical Science II (NITII) Fusion of Field and Laboratory
Related Courses	Research and Development for Agro-Biomedical Science II (NTU), Fusion of Field and Laboratory
	Studies (NTU), Agro-Biomedical Science Laboratory Seminar I (UT), International Scientific
	Seminars (UB), Field to Laboratory Practices with Data Management & Data Mining (UB),
	Integrative Unit with Omic & Bioinformatic Tools (UB)
Keywords	Paper presentation, unmet biomedical needs, translational science