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| Course   | Agro-Biomedical Science Laboratory Seminar II   |
| Course No.   | 01ER401   |
| Credits  | 1 Credit  |
| Grade  | 1 <sup>st</sup> Year  |
| Timetable  | Spring AB   |
| Instructor   | Hsinyu Lee, Tsai-Kun Li, Chang-Chuan Chan, Ming-Ju Chen, Tang-Long Shen, Han-Yi E. Chou   |
| 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 National Taiwan University will nurture the expertise of Health and Food sciences, and the ability to find and solve the problems in Asian society and nature.   |
| Remarks  | Conducted in English at National Taiwan University. For students of International Joint Degree Master's Program in Agro-Biomedical Science in Food and Health   |
| Course Type  | Seminars  |
| Link between Course Objectives and Activities          | We nurture the technological expertise in biotic and food resources for Agro-Biomedical Science such as ability to connect health and food resources, abilities to connect engage in issues related health security, and ability to engage food security.   |
| Academic Goal  | <ol style="list-style-type: none"> <li>1. To be able to survey the research topics of instructors.</li> <li>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.</li> <li>3. To be able to read and understand the selected articles, and summarize them to other students within a set allotment of time.</li> <li>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.</li> <li>5. To be able to describe/explain the significance of each article from the standpoint of Agro-Biomedical Science.</li> </ol> |
| Course Schedule  | <p>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.</p> <p>Theme 1: Signal Transduction (Hsinyu Lee)<br/> Theme 2: Drug and health food product development (Tsai-Kun Li)<br/> Theme 3: Environmental Epidemiology and Global Health (Chang-Chuan Chan)<br/> Theme 4: Animal-based foodstuff (Ming-Ju Chen)<br/> Theme 5: Applied microbiology (Tang-Long Shen)<br/> Theme 6: Stem cell and nanobiotechnology (Han-Yi E. Chou)</p>   |
| Course Prerequisites and Advisories                    |   |
| Grading Philosophy (Percentage/ Criteria/ Methodology) | <p>Participation in the class (50%), presentation and discussion about the paper (25%), and report (25%).</p> <p>Report theme is "Summary of the paper you introduce (one paper is enough), and its relation with global topics in Food and Health".</p> <p>Grading Criteria is A+, A, A-, B+, B, B-, and C+/C/C- (Failure).</p>  |

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|  | Students need to attend at least 80% of classes for getting grade B-.  |
| Self-Directed Learning<br>Other Than Coursework                        | Address assignments introduced by instructors in the class room.   |
| Textbooks, References<br>and Supplementary<br>Materials                | Introduced by Instructors in class   |
| Office Hours   | Name: Hsinyu Lee<br>E-mail: hsinyu@ntu.edu.tw<br>Name: Tsai-Kun Li<br>E-mail: tsaikunli@ntu.edu.tw<br>Name: Chang-Chuan Chan<br>E-mail: ccchan8082@gmail.com<br>Name: Ming-Ju Chen<br>E-mail: cmj@ntu.edu.tw<br>Name: Tang-Long Shen<br>E-mail: shentl@ntu.edu.tw<br>Name: Han-Yi E. Chou<br>E-mail: hyechou@ntu.edu.tw<br>By Appointment Only |
| Other (i.e. Expectations<br>on Classroom, Conduct<br>and Decorum etc.) | In the seminar, students are expected to join in the discussion.   |
| Related Courses  | Agro-Biomedical Science Laboratory Seminar I<br>Research and Development for Agro-Biomedical Science II<br>International Scientific Seminars   |
| Keywords   | Paper presentation, Paper discussion   |