Organizer's Report on the 21st Leading Seminar

Name / Grade	Kenichiro Sakaguchi / 2nd year
Date / Place	16:00-17:00, Oct 18, 2017 / Lecture Hall
Number of attendees	69 students, 8 others

Lecture title	In vitro growth of primordial germ cells derived from mouse fetal ovaries (和題: マウス胎子卵巣由来始原生殖細胞の体外発育)
Lecturer	Dr. Kanako Morohaku, PhD (諸白家奈子　博士)
Affiliation of Lecturer	Assistant professor School of Science and Technology, Institute of Agriculture, Shinshu University

Background of invitation	In 2016, a breakthrough occurred in the field of reproductive biology. During the development of fetuses, there are a lot of primordial germ cells (PGCs) exists, but quite a few number of them can develop to fertilize ova and achieved to be ovulated. A group in Tokyo university of agriculture has succeeded to develop fertilize ova in vitro from PGCs efficiently for the first time in the world [Morohaku, K. et al., Proc Natl Acad Sci U S A 113(32): 9021-9026. 2016]. Dr. Morohaku was in charge of main part of that experiment, and I expected that she would give us simulative information which can be applicable for human, livestock, and endanger spices. Firstly, I had no information to contact her. Fortunately, I found her address in the website of her previous work place (Cornell University). Then I could send e-mail to Dr. Morohaku, and she kindly accepted my invitation. 
Seminar contents, questions and answers	**Seminar content:** The Seminar was 60 min, and consist of 3 parts, 1) introduction from organizer, 2) main lecture, and 3) discussion. Because very few students are studying about animal reproduction, I was recommended to do presentation for introduce the topic. Since then, I did presentation about in vitro growth culture of oocytes for 5 min. The main presentation was about 50 min. Her talk was start from basic knowledge of oogenesis. And she introduced two achievements about improvement of culture of primordial follicle, and generating offspring from primordial germ cells. The way of her presentation including with questions and explanations made the audience easy to follow. **Question and answer session:** The discussion time became 5 min Totally 2 participants gave some question (1 foreign student, 1 foreign lecturer). I needed to cut off a question, because I wanted to close seminar on time due to another seminar at CZC from 17:30. 
Activities outside of Leading Seminar	18th Oct: Greeting with my supervisor (Dr. Katagiri, Dr. Nagano) before seminar (15:10-20) Reception at a restaurant after the seminar (19:00-22:00) 19th Oct: Visiting Dr. Kawahara (Her previous colleague, Faculty of Agriculture)
Impressions and opinions	**Reflection point:** After the seminar, I took a questionnaire. This seminar was shorter than previous seminar (60 min presentation, 30 min discussion). Eighty six percent of students were satisfied that. Sixty minutes can be appropriate as the total length. But, some students complain that the length of discussion (5 min) was too short. Although I introduced basic knowledge related to main presentation, 30% of students felt difficulty for understanding lecture. Some introduction of the topic should be essential for students, and it may better that organizers ask lectures to make presentation easy for students from other fields. **Impressions and opinions:** This seminar is a great chance for students on the three-view point that: 1) Student can listen to a lecture of the top scientist from various filed. 2) Student can experience how to invite the lecturer from other institutes. 3) Student can contact famous researcher directly, which may improve their research and may connect to their career pass. I could make a good relationship with one of the top researcher in my field. I really appreciate to Dr. Morohaku, and Leading office (Terashima san, Maki san), and my supervisor and colleague for supporting me.