

Yamaguchi University

Research advisor / The United Graduate School of Veterinary Science,

Professor OTOI Takeshige

Former international student / Dr. Agung Budiyanto (Indonesia)

◆Profile (Former international student)◆

Nationality: Indonesia

Educational Background in Japan:

April 2003 – March 2007: The United Graduate School of Veterinary Science, Yamaguchi University (Doctor)

Present Institution / Status:

Universitas Gadjah Mada / Lecturer



◆Follow-up Research Fellowship◆

Period: October 19, 2009 – October 28, 2009 (10 days)

Institution: Universitas Gadjah Mada

Field of Research Guidance: reproduction technology

ジョクジャカルタの農家での技術指導
(左:音井氏、右:アング氏)

◆Research advisor's Impressions for the former International student while studying in Japan◆

Dr. Agung (former international student) had studied for one year as a research student before he entered to our graduate school of Veterinary Science. During staying in our laboratory, he applied to the university recommendation system for scholarship of Japanese Education Ministry. He could get the scholarship and then come to our laboratory again for getting the PhD. He could start immediately experiments after arrival at Japan, because he was familiar with members of our laboratory. Moreover, he was a cheerful character to be able to speak with everybody. He belonged to the badminton club besides the research, and he could widely have exchange with Japanese students and with persons outside of university. Interestingly, the director in the Yamaguchi Prefectural government was his friend. He could speak Japanese well according to the area of his exchange. I memorize that he worked seriously about the experiments, and he was good teacher for the undergraduate students. However, he spent lonely times because they had lived in Japan by single.

◆Communication after studying in Japan◆

We have continued collaboration with Dr. Agung for research of reproductive technology of cows. As a result, we could report the data concerning the effects of heat stress on the survival of porcine oocytes. We visited at Gadjah Mada university on January 2008 for research guidance and investigation of field. At this time, moreover, we held the seminar including the presentation by my graduate student. There were about 50 participants (researcher, teacher, and veterinarian, etc.). Dr. Agung came to our laboratory to receive research guidance on March, 2008 and he stayed for one week. In addition, we are submitting the paper concerning the data which Dr. Agung had performed during PhD student, and our exchange of information and collaboration about the research continue after he graduated.

◆Further Cooperation and Communication◆

The purpose of a new joint research is to preserve the gene of the extinct buffalo (oocytes and sperm), in order to attempt maintenance and the profit use of genetic resource in Indonesian buffalos including Spotted buffalo (*Bubalus bubalis*), and to establish the reproductive technology. In this program, we could teach the techniques concerning the bovine embryo transfer at the field, and could transfer the important points of techniques. It is important to establish the technology of gene preservation in Indonesian buffalos including Spotted buffalo, leading to the possibility of improvement and availability of buffalo in the next generation. Moreover, the technology maintains the genetic resource even when the environment is not controlled. In the program, I could develop a progressive research and teach the techniques with former international student including undergraduate students, which could construct the human bonds with local students and lead to the international student acceptance in the future.

◆Further Cooperation between institutions◆

The agreement of the science exchange between Faculty of Veterinary Medicine, Gadjah Mada University and The United Graduate School of Veterinary Science, Yamaguchi University was firstly concluded in February 2008. In the next agreement of the science exchange between Faculty of Veterinary Medicine, Gadjah Mada university and Faculty of Agriculture, Yamaguchi University was concluded in March 2008. The agreement of the exchange has been progressively concluded between Gadjah Mada University and Yamaguchi University in October 2008. In addition, the international exchange room of Yamaguchi University has been set up in Faculty of Veterinary Medicine, Gadjah Mada University. The progressive exchange between universities is expected. On the other hand, since the agreement of the science exchange between Faculty of Veterinary Medicine, Bogor Agricultural University and Faculty of Agriculture, Yamaguchi University has been concluded in 1996, the exchange has been continued after the agreement. In this time, we are planning to conclude the agreement of science exchange between Faculty of Veterinary

◆Impression of this program by Former International student◆

We would like to conserve the valuable genes of oocytes and sperm from buffalo including spotted buffalo and establish the techniques for conservation of wild and domestic buffalo, using this program with the collaboration with former supervisor. I could meet the professor and learn the important points of techniques concerning the embryo transfer in the field. This experience with him will be benefit for me, my colleagues and students. Moreover, he attended a science meeting and lecture for my students. These were good chance for exchange of science and education between our university and Japanese university.



ガジャマダ大学でのセミナー風景
(左:アグング氏、右:音井氏)



ボゴール農業大学で卒業生との懇談会