

## 2.9.2 Livestock Farm

Member :

Professor	Iwaisaki, Hiroaki, D. Agric. Sci.
Associate Professor	Kitagawa, Masayuki, D. Agric. Sci.
Technical specialist	Murakami, Hiroaki
Technical special Staff	Matsuhira, Noriyasu
Technical special Staff	Nagase, Hiroshi
Technical Staff	Yoshioka, Hidetsugu
Technical Staff	Kitamura Shouko
Technical Staff	Matsuyama, Takatsugu
Administrative Staff	Iguchi, Kazuo

### A. Research Activities

(2010.4-2011.3)

#### A-1. Main Subjects

##### a) Studies on improvement of feeding management for beef cattle

For improvement of reproductive performance of cows, prevention of diarrhea occurrence in suckling calves and improvement of performance in rearing calves, several studies are examined from respects of reproductive physiology, hygienic management and feeding management respectively. The conception rate and rearing performance have been gradually advanced by reconsidering record in field note, weaning period and feeding management in rearing calves.

##### b) Fundamental studies on functional development in beef cattle

In close corporation with related laboratories in the graduate school of agriculture and informatics, reduction of environmental loads has been investigated with understanding material cycle and mineral metabolism. Bioavailability of vitamin C drugs and ratio of stable isotope in element on hair are examined.

##### c) Studies on evaluation of byproducts of agriculture and food industries for feed resources and development of technology for feed utilization

Because beef production in our country greatly depends on imported feed, development of technology for feed utilization of unused and low used resources has been asked. We therefore investigate the volume of byproducts of agriculture and food industries produced in Nantan district of Kyoto Prefecture. After preparing mixed ration by use of several byproducts, the palatability and growth performance are examined with rearing and fattening cattle.

#### A-2.Publications and presentations

##### a) publications

###### Reports

Kitagawa, M., Kumagai, H., Okano, K., Azumai, S., Gohda, S. and Murakami, T. Studies on evaluation of byproducts of agriculture and food industries for feed resources and development of technology for feed utilization. Report of several projects for feed utilization of unused and low used resources. 169-216. 2010 Japan Livestock Industry Association Tokyo ( in Japanese)

Yoshioka, H. Murakami, H., Nagase, H. Kitamura, S. Matsuyama, T.: The effect of improvement of management on development in rearing calves in Livestock Farm of Kyoto University. Reports of 13th study meeting of technical officials: 8-10. Graduate School of Agriculture, Kyoto University. 2011(in Japanese)

##### b) Conference and seminar papers presented

The 60th Meeting of Kansai Society of Animal Science: 6 presentations

#### A-3.Off-campus activities 1

##### Membership in academic societies

Name: Kitagawa, Masayuki, D. Agric. Sci.

##### Academic society(roles)

Japanese Society of Livestock Management (Councilor)

Japan Society of Beef Cattle Science (Councilor)

Animal Science Systems Society (Councilor)

The Japan Society for Meat Production(representative)

#### A-3.Off-campus activities 2

##### Research grants

## 2. Other Research Grants

Grant     Research Project for utilizing advanced technologies in agriculture, forestry and fisheries

Principal Investigator   Ieki, Hajime (Sharer: Kitagawa, M. )

Title     Development of bamboo pellet feed, utilizing digestibility improvement technology of woody feed by culturing with the white-rot fungus

## B. Educational Activities(2010.4-2011.3)

### B-1. On-campus teaching

a) courses given

#### Undergraduate level

Livestock Production Techniques and Practice I (Kitagawa )

Livestock Production Techniques and Practice II (Kitagawa et al)

Fundamentals for the Experiments for Bioresource Science (Kitagawa et al)

## C. Other Remarks

Kitagawa, Masayuki

Conference etc.

Council for establishment of resource recycling pattern of animal husbandry in Nantan district of Kyoto Prefecture ( Chairman)

Project for cooperative partner school on environment and food education in Nantan educational bureau of Kyoto Prefecture ( Collaborator)