



# Experimental Farm

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TEACHING	Agricultural Practice A, B, C, D, E (for Department of Agrobiological Resources) Agricultural Practice (for Department of Applied Biological Chemistry) Agricultural Practice (for Department of Environmental Bioscience) Special Topics in Agriculture II Special Topics in Agriculture III



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## Laboratory of Plant and Animal Science

### Crop Science

- The quality and growth of spring, summer and autumn crops.
- Studies of the cultivation density and growth between spring and summer cropping potatoes.
- Studies of garlic production.

### Pomology

- Fruit growth and maturation control by the plant growth regulator treatment.
- Studies of the response mechanism of fruits to environmental changes.
- Studies of the functional ingredients in fruits.

### Vegetable science

- Studies on the evaluation and utilization of companion plants.
- Studies on malformation and sunburn of paprika fruits.
- Studies on production, storage and utilization of taros.

### Floricultural science

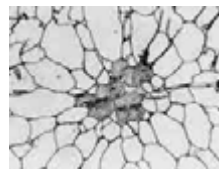
- Studies on the growth and flowering of bedding plants.
- Studies on the production of bulbs, corms, tubers and tuberous roots.

### Animal Science

- Studies on effective utilization of unused resources in poultry production and immunity.
- Studies on goat utilization for reclamation of abandoned land and dairy production.
- Studies on effective utilization of unused resources with manure for composting.
- Studies on improvement of livestock production in tropical areas.



Cultivation of various rice species.



Stone cells of a Japanese pear.



Mixed planting of cabbage and chamomile (companion plants).



Improved growth of Impatiens in lower soil-temperature.



Research on growth of buffaloes in Nepal.

#### Recent publications:

- Hayashi Y., Shah M. K., Tabata Y., Kumagai H., Shah S. K. and Devkota N. R. (2011) Feeding characteristics and body dimensions of growing buffaloes (*Bubalus bubalis*) raised on small-scale farms in Tarai, Nepal. *Journal of Institute of Agriculture and Animal Science*. 32,181-186.
- Hayashi Y., Shah M. K., Kumagai H. and Shah S. K.(2010) Comparison of bodyweight and body size of growing buffaloes between large and small scale farms in Nepal. *Revista Veterinaria*. 21, 781-783.
- Hayashi Y., Shah M. K., Kumagai H. and Shah S. K.(2009) Body weight and body size of growing buffaloes raised in Nepal. 2009. *Pakistan Journal of Zoology*. 9, 143-145.
- Hayashi Y., Thapa B. B., Sharma M. P., Sapkota M. and Kumagai H.(2009) Effects of maize (*Zea mays* L.) silage feeding on dry matter intake and milk production of dairy buffalo and cattle in Tarai, Nepal. *Animal Science Journal*. 80, 418-427.
- Nakao, Y., T. Taira, S. Horiuchi, K. Kawase, and Y. Mukai(2005) Chromosomal Difference between Male and Female Trees of *Ginkgo biloba* Examined by Karyotype Analysis and Mapping of rDNA on the Chromosomes by Fluorescence in situ Hybridization. *J. Japan. Soc. Hort. Sci.* 74, 275-280.