

Title of Ph.D. dissertation and Mater course (1998~)

Ph.D.

(C: Doctoral course work, S: Submitted Doctoral Thesis)

2009

Makoto, Kobayashi (c) Effects of charcoal production after fires on the traits of soil and regeneration in mixed conifer–broadleaved forests of Far East Russia (in Japanese)

Ohno, Yashuyuki (s) Study on the factors affecting the growth and declining of mature Monarch birch in broadleaved forests (in Japanese)

2007

Eguchi, Norikazu (c) Study on the changes in CO₂ fixation and storage capacity of deciduous tree species native to cool temperate zone with increasing ambient CO₂ concentration (in Japanese)

Ji, DongHun (c) Study on the physiological ecology of Korean pine in early stage of regeneration (in Japanese)

2005

Kitahashi, Yoshinori (c) Physiological ecology of water relations and leaf surface structure of broadleaved trees (in Japanese)

Uemura, Akira (S) Ecophysiology of environmental adjustment in photosynthesis and water relations of mature trees of Siebold's beech and Japanese beech (in Japanese)

Yasaka, Michiyasu (S) Conservation ecology of the reproduction of forest plants (in Japanese)

2004

Choi, DongSu (C) Ecophysiological study on growth of the ectomycorrhizal conifer species in Korea treated with soil acidification and elevated CO₂

Noguchi, Mahoko (C) Studies on forest dynamics and vegetation changes in mixed conifer–broadleaved forests in Hokkaido under disturbance regimes (supervisor: Dr. Yoshida, Toshiya) (in Japanese)

Wang, Wenjie (S) Physiological ecology of respiratory consumption of a larch (*Larix gmelinii*) forest in Northeast China

2003

Qu, Laiye (C): Ecophysiological study on the natural regeneration in the two larch species with special references to soil environment in northern Japan

Kitaoka, Satoshi (C): Ecophysiological study on the environmental acclimation capacity of deciduous broadleaved tree seedlings invading to unmanaged larch plantations (in Japanese)

Matsuki, Sawako (C) :Species biology of plant defense in deciduous broadleaved trees with special references to Betulaceae (in Japanese)

2002

Yamashita, Naoko (S) Physiological ecology of *Bischofia javanica* Bl. invading to the Bonin Islands and its application for environmental conservation (in Japanese)

2001

Kayama, Masazumi (C) Study on the environmental adaptation of spruces species on serpentine soil and its application for forest rehabilitation practices (in Japanese)

Nakamura, Takatoshi (C) Ecological gradients of north Japanese mires on the basis of hydrochemical features and nitrogen use traits of *Carex* species. (supervisor: Dr. Uemura, Shigeru)

Master Thesis

2009

Karaki, Takayuki: Development of water impermeability of seed coat and requirements for the seed germination in black locust (*Robinia pseudoacacia* L.)—A consideration focused on the anatomical feature—

Hinata, Kiyomi: Study on the localization of defense chemicals in leaves of deciduous broad-leaved tree seedlings under changing environment

Ryu, Koharu: The effects of nitrogen deposition on the growth of the hybrid larch grown on the serpentine soil

2008

Matsunami, Shiro: Ecophysiological survey on the dispersal capacity of root sucker of Black locust and its application for the management

Kanetoshi, Masaharu: Photosynthetic nitrogen use efficiency of Black locust, an invasive species with special references to nitrogen allocation in leaves grown under different light and CO₂ regimes

2007

Matsui, Katsuhiko: Effects of elevated CO₂ on the decomposition rate of leaf litter through grazing of wood louse (*Porcellio scaber*) (Isopoda; Oniscidae) with special reference to its growth and consumption rate

Agari, Tokihisa: Effect of elevated CO₂ and nutrients on the defense of alder species (in Japanese)

2006

Otsuka, Yuka: The localization of defense chemicals in leaves of beech and oak.

Makoto, Kobayashi: Effects of nitrogen supply on the growth and photosynthetic responses of seedlings of *Pinus koraiensis* grown under different light conditions

Morii, Noriko: Water relations in deciduous broadleaved tree saplings grown under a free air CO₂ enrichment (FACE).

Hida, Takeshi: Change in the light compensation point of deciduous broad-leaved tree saplings grown under elevated CO₂

Karatsu, Kazuki: Photosynthetic acclimation of deciduous broadleaved tree saplings grown under a free air CO₂ enrichment (FACE). (in Japanese)

2005

Sakuma, Yuko: Anatomical structure and physiological traits of heterophyllous needles of Japanese larch (*Larix kaempferi*) trees

Endo, Ikuko: Growth and survival of three species of Betulaceae seedlings in the large disturbed area.

Shibata, Takanori: Defense characteristics of deciduous broadleaved tree seedlings raised under different CO₂ and nitrogen levels (in Japanese).

2004年

Eguchi, Norikazu:

Change of photosynthetic capacity of *Alnus hirsuta* with increasing of atmospheric CO₂ concentration: comparing the proximate *Betula* spp. Without symbiotic N₂ fixing micro-organism

2002年

Kitahashi, Yoshinori: Physiological and morphological adaptation of broad-leaved trees with two different height positions of the same sunny crown

2001年

Ooishi, Machiko: Photosynthesis and nutrient dynamics of *Picea glehnii* seedlings grown under immature volcanic ash soil with special references to the activities of ectomycorrhiza (in Japanese)

Noguchi, Mahoko: Effects of partial logging on tree regeneration and forest floor vegetation in conifer-hardwood mixed forests in northern Hokkaido (supervisor: Dr. Yoshida, Toshiya)

2000年

Kitaoka, Satoshi: Seasonal changes of light utilization capacity in deciduous broad-leaved trees seedlings invaded into a larch plantation.

Yanagihara, Yuko: The effects of soil type and vegetation change on soil respiration rate in larch forests

1999年

Shimizu, Kensuke: Seasonal gas exchange and characteristics of leaves in relation to successional traits in deciduous broad-leaved forest canopy (supervisor: Dr. Hiura, Tsutomu)

Bachelor research

(on leave from Department of Bio-Engineering, Hokkaido Campus, Tokai University)

Tonooka, Mai:

Yamakawa,: Study on the elevated CO₂ on the growth and development of deciduous broadleaved trees (in Japanese)

Abe, Tomohiro: Study on defense trait in Betulaceae seedlings (in Japanese)

Shibutani, Takuma: Nitrogen allocation and photosynthesis of deciduous broadleaved tree seedlings (in Japanese)

Shibata, Takanori: Growth and survival of Erisan (*Samia risiri*) larvae fed with leaves of deciduous broadleaved tree seedlings grown at elevated CO₂ (in Japanese)

Karatsu, Kazuki: Changes in photosynthetic activities of deciduous broadleaves tree seedlings at FACE system with special reference to the amount of Rubisco (in Japanese)

Agari, Tokihisa: Effect of elevated CO₂ and nitrogen levels on the nitrogen fixation of symbiotic micro-organisms in three alder species.(in Japanese) (supervisor: Dr. Tobita, Hiroyuki)

Kato, Kohta: Photosynthetic characteristics of deciduous broadleaved tree saplings grown under elevated CO₂ with a FACE (in Japanese).

Yamaguchi,