

PhD Dissertation (December 2007 – September 2008)

Hiroshima University has granted the Doctor's degree to the following researchers.  
The list is only concerned with the Graduate School of Biosphere Science.

DEPARTMENT OF ENVIRONMENTAL AND MATERIAL SCIENCE



**Study of promotion and suppression factors of correspondence inference in attitude attribution**

Mina KAKUNO (March 4, 2008 / Doctor of Philosophy)

DEPARTMENT OF SCIENCES FOR BIOSPHERIC COEXISTENCE



**Nitrate attenuation process with the groundwater flow in the coastal agricultural catchments**

Mitsuyo SAITO (March 23, 2008 / Doctor of Philosophy)

**Origin and molecular evolution of LPXRFamide peptides and PQRamide peptides in the brain of vertebrates**

Tomohiro OSUGI (March 23, 2008 / Doctor of Philosophy)

**Effects of REM sleep on adaptive decision making: A sleep psychological study**

Takashi ABE (March 23, 2008 / Doctor of Philosophy)

**The influence of pressure on motor skills**

Yoshifumi TANAKA (March 23, 2008 / Doctor of Philosophy)

DEPARTMENT OF SCIENCES FOR BIOSPHERIC COEXISTENCE <DEPARTMENT OF BIORESOURCE SCIENCE>



**Impact of direct farmers' market on women farmers' empowerment: Case study of Chugoku Region in Japan**

Sarafat Ayanfuke TIJANI (March 23, 2008 / Doctor of Philosophy)

**Dynamism of aquaculture industry in Korea and its problems – A study on competitive situation caused by structural changes of production and trade –**

Yoo Min SEOK (March 23, 2008 / Doctor of Philosophy)

**Changes in the uses of whale resources over time and small-scale coastal whaling –Practical analysis based on the theories of food systems and multifunctionality–**  
Aiko ENDO (March 23, 2008 / Doctor of Philosophy)

**The role of microfinance on poverty and vulnerability reduction for sustainable development in Thai rural society**  
Pornprapa SAKULSANG (March 23, 2008 / Doctor of Philosophy)

**Importance of the adhesion of Edwardsiella tarda in its pathogenicity to fish**  
Mahmoud Mostafa MAHMOUD MOHAMED (March 23, 2008 / Doctor of Philosophy)

DEPARTMENT OF BIORESOURCE SCIENCE AND TECHNOLOGY <DEPARTMENT OF BIORESOURCE SCIENCE>

—●  
**Studies on the innate immune functions in ovarian follicles of laying hens**  
Kalpana SUBEDI (March 23, 2008 / Doctor of Philosophy)

**Studies on the mechanism of sperm survivability in the oviduct of laying hens**  
Shubash Chandra DAS (March 23, 2008 / Doctor of Philosophy)

DEPARTMENT OF BIORESOURCE SCIENCE AND TECHNOLOGY <DEPARTMENT OF BIOFUNCTIONAL SCIENCE AND TECHNOLOGY >

—●  
**Analysis of the physiological function of xylanase inhibitors in rice.**  
Takaaki TOKUNAGA (March 4, 2008 / Doctor of Agriculture)

**Analyses of the effect of LIF to chicken ES cells and the novel germ line specific marker**  
Yusuke YAMASHITA (March 23, 2008 / Doctor of Agriculture)

**Studies on the ribosome biogenesis factors localized in the nuclear envelope**  
Chihiro HORIGOME (March 23, 2008 / Doctor of Agriculture)

**Studies on the regulation of ribosome biogenesis and sumoylation in budding yeast**  
Chiharu SHIRAI (March 4, 2008 / Doctor of Agriculture)

**Physical chemical study of molecular interactions and isomer- separation processes of conjugated linoleic acids and medium-chain fatty acids**  
Hidetaka UEHARA (March 23, 2008 / Doctor of Agriculture)

**Studies on toxic dinoflagellates and toxification of bivalves in Hiroshima Prefecture**  
Rieko BEPPU (March 4, 2008 / Doctor of Agriculture)

**Hydrostatic pressure-induced germination and inactivation of Bacillus spores**  
Yujin SHIGETA (March 23, 2008 / Doctor of Agriculture)

**Texture evaluation, process and composition optimization of mayonnaise by dynamic viscoelasticity measurements**  
Kentaro MARUYAMA (March 23, 2008 / Doctor of Agriculture)

**Study on viscoelastic behavior of liquid state food dispersions**  
Somchai KEAWKAIKA (March 23, 2008 / Doctor of Philosophy)

**Studies on peroxisomal import system for catalase in plant**  
Yoshimi OSHIMA (September 8, 2008 / Doctor of Agriculture)

**Study on the enzymes which involve in the degradation of cyclic maltosyl –maltose in Arthrobacter globiformis M6**  
Tetsuya MORI (September 8, 2008 / Doctor of Agriculture)

**Study on environmental technology using yeasts, fungi and enzymes**  
Takashi WATANABE (September 30, 2008 / Doctor of Agriculture)

**Studies on heat-response and sterilization of heat resistant fungi**  
Yutaka KIKOKU (September 30, 2008 / Doctor of Agriculture)

#### DEPARTMENT OF ENVIRONMENTAL DYNAMICS AND MANAGEMENT

**Diversity and phylogenetic characteristics of culturable euryhaline halophilic bacteria based on sequences of 16S rRNA gene, an associated region, and a functional gene**  
Ngoc-Phuc HUA (March 23, 2008 / Doctor of Philosophy)

**Molecular ecological studies on spatiotemporal dynamics of bacterial key species driving biogeochemical process in the ocean**  
Akito TANIGUCHI (March 23, 2008 / Doctor of Agriculture)

**Studies on the biological characteristics of planktonic and benthic stages of the bloom causing giant jellyfish (Nemopilema nomurai) in the East Asian Marginal Seas**  
Masato KAWAHARA (March 23, 2008 / Doctor of Agriculture)

**Relationship between nitrogen dynamics and vegetation in the wetlands of**

**Higashi-Hiroshima, West Japan**

Azam Haidary MIANDOAB (March 23, 2008 / Doctor of Philosophy)

**Behavior and photodecomposition of polycyclic aromatic hydrocarbons (PAHs) in the atmosphere of Higashi Hiroshima, Japan**

Yasmin Tham Wai Fon (March 23, 2008 / Doctor of Philosophy)

**Changes in soil microbial properties in the early stage of ecosystem development**

Shinpei YOSHITAKE (March 23, 2008 / Doctor of Philosophy)

**Study of environmental remediation using benthic microalgae and steel-making slag in an enclosed small inlet**

Masami SUZUKI (March 23, 2008 / Doctor of Philosophy)

**Nutritional physiological studies on responses and adaptations to drought stress and improving drought-tolerance in soybean plants**

Nobuyuki NAKAYAMA (September 8, 2008 / Doctor of Agriculture)

**DISSERTATION PhD**



**Studies on rheological properties of gelatinized modified starch suspensions**

Hitoshi ASADA (December 27, 2007 / Doctor of Agriculture)

**Salt secretion and the responses to excess magnesium in Rhodes grass (Chloris gayana Kunth)**

Hidekazu KOBAYASHI (March 4, 2008 / Doctor of Agriculture)