

Faculty of Applied Biological Sciences
Gifu University

Annual Report of Research Activities 2011

Vol. 8

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Research achievement

1) Treatise

【Course of Applied Life Science】

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2) Book

【 Course of Applied Life Science 】

{ 1 } **Nagsoka, S**

“Ameliorative action of peptides on cholesterol and lipid metabolism from the viewpoint of peptide-lipid interactions.”, *CRC Press*, pp.33-55, 2011/03

【 Course of Veterinary Medicine 】

{ 1 } **Fukushi, H.** and **Yanai, T.**

“Virology and Pathology of Encephalitis in Alien Hosts by Neurotropic Equine Herpesvirus 9.” In "Non-Flavivirus Encephalitis", ed. Sergey Tkachev, pp 127-146. InTech, Croatia (ISBN 978-953-307-720-8).

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“Equine Herpesvirus 9 (EHV-9)-induced encephalitis in non-human primates.”, *In Teck*, ISBN:978-953-307-720-8, 2011/04

Lectures, Conference Presentation, etc.

1) Conference Presentation

【Course of Applied Life Science】

- [1] **Ando, H., Ishida, H. and Kiso, M**
“Development of novel ganglioside probes for chemical biology of lipid raft”, 3 3rd ACGG Conference., 2011/10/27-29
- [2] **Ando, H.**, Komura, N., Chadda, R., Tsuboi, H., Ikeda, T., Tanaka, K., Suzuki, K., Kusumi, A., **Ishida, H. and Kiso, M.**
“Development of ganglioside probes as raft markers”, 2011/10/12-14
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- [5] Iino, H., Shimizu, N., Goto, M., **Ebihara, A.**, Fukui, K., Hirotsu, K. and Kuramitsu, S.
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- [6] **Ishida, H.**
“First total synthesis of lipooligosaccharide (LOS) of *Campylobacter jejuni*. Claude S. Hudson Award Symposium in Carbohydrate Chemistry Symposium in honor of Professor Richard Schmidt at ACS National Meeting”, (Anaheim CA,USA., Invited lecture), 2011/03/27-31
- [7] Komura, N., **Ando, H.**, Matsui, I., Tanaka, K., Suzuki, K., Kusumi, A., **Ishida, H., Kiso, M.**
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- [8] Mahmud, A., Kitamoto, N., **Suzuki, T., Nakamura, K., Takamizawa, K.**
“Dehydrogenase (xdhA, xdhC, ladA) Homologous Genes Disrupted Mutants of *Aspergillus oryzae* KBN616 for Increased Xylitol Production”, 2011/09/26
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- [10] Mizuho Inagaki, **Tomio Yabe**, Takeshi Takahashi, Yoshitaka Nakamura, Toyoko Nakagomi, Osamu Nakagomi, and **Yoshihiro Kanamaru**
“Bovine lactophorin and PAS6/7 inhibit rotavirus replication and prevent experimental gastroenteritis.”, The 2nd Annual World Congress of Virus and Infection (BIT's 1st Annual World Congress of Microbes - 2011), Beijing, (China) , Abstract p.74, 2011/07/31
- [11] Mizuho Inagaki, **Tomio Yabe, Tohru Suzuki**, Takeshi Takahashi, Tsukasa Matsuda, Osamu Nakagomi, Toyoko Nakagomi, **Yoshihiro Kanamaru**
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 “Degradation of tetrachloroethylene by microorganisms in activated sludge”, International Union of Microbiological Societies 2011 Congress, 2011/09/08
- [16] Tandishabo, K., **Nakamura, K.**, Umetsu, K., **Takamizawa, K.**
 “Distribution of Coprothermobacter spp. in anaerobic digesters treating dairy cow manure”, International Union of Microbiological Societies 2011 Congress, 2011/09/10
- [17] Ueki, A., Mino, Y., Un, K., Yoshida, M., Kawakami, S., **Ando, H.**, **Ishida, H.**, Yamashita, F., Hashida, M. and **Kiso, M.**
 “Synthesis and evaluation of glyco-coated liposomes as drug carrier for positive targeting in DDS”, 3rd iCeMS Retreat, 2011/09
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 “Synthesis and evaluation of glyco-coated liposomes as drug carrier for positive targeting in DDS”, 11th iCeMS International Symposium (Poster), *Chemical Control of Cells*, 2011/12/06
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 “Analysis of microial ferric iron reduction and methane oxidation from a lotus field anaerobic enrichment”, International Union of Microbiological Societies 2011 Congress, 2011/09/08
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 “Characterization of a novel species of iron (III) reducing bacterium isolated from an anaerobic microbial enrichment”, 2011/09/27
- [21] **Ando, H.**, **Ishida, H.** and **Kiso, M**
 “Development of fluorescent ganglioside probes for characterizing raft meso-domains in the plasma membrane using single-molecule tracking”, 3rd iCeMS Retreat, 2011/09
- [22] **Ando, H.**, **Ishida, H.** and **Kiso, M**
 “Development of novel fluorescent ganglioside analogs as raft markers”, 16th European Carbohydrate Symposium, 2011/07
- [23] **Ando, H.**, **Ishida, H.** and **Kiso, M**
 “Development of novel ganglioside probes for chemical biology of lipid raft”, 3rd ACGG Conference, 2011/10
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 “Development of novel fluorescent ganglioside analogs as raft markers”, Crossing Boundaries: Stem Cells, Materials, and Mesoscopic Sciences, 2011/07
- [25] **Imamura, A.**, **Ando, H.**, **Ishida, H.** and **Kiso, M**
 “Chemical synthesis of the neurogenic gangliosides and evaluation of their neurogenic activity”, 3rd iCeMS Retreat, 2011/09

【Course of Agricultural and Environmental Science】

- [1] **Onishi T.**
 “Mechanism of dissolved iron production and transport in the Amur River basin; what is clarified and what is still unresolved?”, The 2nd International Meeting of Amur-Okhotsk Consortium -Towards the sharing of environmental data in the Pan Okhotsk region, 2011

- [2] **Onishi T.**
“Soil erosion problems in Japan- present situation and the future perspective.”, International Symposium on Soil Management and Conservation against Climate Change (Korea) , 2011
- [3] **Onishi T, S. Hisada, M. Senge, K. Hiramatsu, I. Tamagawa**
“Stream water temperature difference between coniferous and deciduous forest.”, American Geophysical Union Fall meeting 2011 (USA), 2011
- [4] **Onishi T., S. Okano, K. Hiramatsu, S. Nishimura, H. Shimizu**
“Numerical simulations of seawater intrusion by sea level rise due to the global warming - a case study of Noubi Plain in Japan “, International Union of Geophysics and Geodesy (Australia) , 2011

【 Course of Veterinary Medicine 】

- [1] **Kenji Ohya, Eldesouky Ibrahim, Makoto Kuroda, Tsuyoshi Sekizuka, Hideko Okuda, Garry Meyers, Toshio Kishimoto, Shuji Andoh, Hideto Fukushi**
“Chlamydia psittaci specific genes, which are identified by comparative genomic analysis, can be used for differential diagnosis of chlamydia specie”, 2011 International Union of Microbiological Societies Congress, 2011/09(Sapporo)
- [2] **Ohya, K., Okuda, H., Kuroda, M., Sekizuka, T., Meyers, G., Kishimoto, T., Andoh, S. and Fukushi, H**
“Complete genome sequence of Chlamydophila psittaci Mat116 strain isolated in Japan”, The 2011 Chlamydia basic research meeting., 2011/03(CA)
- [3] Tomoaki Murakami, **Yasuo Inoshima**, Ken-ichi Watanabe, Yoshiyasu Kobayashi, Takane Matsui, Hisao Kurazono, **Naotaka Ishiguro**
“Experimental rabbit AA amyloidosis with bovine AA fibrils”, Conference "Amyloid Fibrils, Prions and Precursors: Molecules for Targeted Intervention", 2011/08
- [4] Tomoaki Murakami, **Yasuo Inoshima**, Ken-ichi Watanabe, Yoshiyasu Kobayashi, Takane Matsui, Hisao Kurazono, **Naotaka Ishiguro**
“Pathogenesis of experimental AA amyloidosis in sore hocks-affected rabbits”, The 2nd UGSVS-SNU Joint Workshop, 2011/02

2) Academic lecture

【 Course of Applied Life Science 】

- [1] **Hayakawa T,**
“Effects of long-term ingestion of alkaline electrolyzed water in rats”, International Congress on Food Factors (ICoFF 2011), Taipei Convention Center, 2011.11.22. (Symposium Invited Speaker)

【 Course of Agricultural and Environmental Science 】

- [1] **Yamamoto YY**
Understanding plant promoters” Lunch Time Seminar, Alberta Innovates - Technology Futures, Vegreville, Alberta, 2011/1004(Canada)



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