

Faculty of Applied Biological Sciences  
Gifu University

Annual Report of Research Activities 2015

Vol. 12

# CONTENTS

## I Research Achievement

1. Academic Paper .....	1
2. Book .....	14

## II Lectures, Conference Presentation, etc.

1. Conference Presentation .....	15
2. Academic lecture .....	18

## I Research Achievement

### 1) Academic Paper

#### 【Course of Applied Life Science】

- [1] Abe S, Tokura Y, Pal R, Komura N, **Imamura A**, Matsumoto K, Ijiri H, Sanghamitra N J M, Tabe H, **Ando H**, **Kiso M**, Mori H, Kitagawa S, Ueno T.  
“Surface functionalization of protein crystals with carbohydrate using site-selective bioconjugation.”  
*Chemistry Letters*, Vol.44(1), pp.29-31, 2015
- [2] **Ando H.**  
“Synthetic approach toward complexity of sialic acid-containing glycans.”  
*Biosci Biotechnol Biochem.*, Vol.79(3), pp.343-346, 2015
- [3] Batubara I, Julita I, Darusman L, Muddathir A, **Mitsunaga T.**  
“Flower bracts of temulawak (*Curcuma Xanthorrhiza*) for skin care: anti-acne and whitening agents”  
*Proc Chem*, Vol.14, pp.216-224, 2015
- [4] Batubara I, Suparto I H, Sa'diah S, Matsuoka R, **Mitsunaga T.**  
“Effects of inhaled citronella oil and related compounds on rat body weight and brown adipose tissue sympathetic nerve.”  
*Nutrients*, Vol.7(3), pp.1859-1870, 2015/03
- [5] Ben Othman S, **Katsuno N**, Kanamaru Y, **Yabe T.**  
“Water-soluble extracts from defatted sesame seed flour show antioxidant activity in vitro.”  
*Food Chemistry*, Vol.175, pp.306-314, 2015/03/15
- [6] Ben Othman S, **Yabe T.**  
“Use of hydrogen peroxide and peroxy radicals to induce oxidative stress in neuronal cells.”  
*Reviews in Agricultural Science*, Vol.3, pp.40-45, 2015
- [7] **Ebihara A**, Manzoku M, Fukui K, Shimada A, Morita R, Masui R, Kuramitsu S.  
“Roles of Mn-catalase and a possible heme peroxidase homologue in protection from oxidative stress in *Thermus thermophilus*.”  
*Extremophiles.*, Vol.19(4), pp.775-785, 2015/07
- [8] Fukui H, **Iwahashi H**, Endoh S, Nishio K, Yoshida Y, Hagiwara Y, Horie M.  
“Ascorbic acid attenuates acute pulmonary oxidative stress and inflammation caused by zinc oxide nanoparticles.”  
*Journal of Occupational Health*, Vol.57(2), pp.118-125, 2015
- [9] Gagliano M.C, Braguglia C.M, Gianico A, Mininni G, **Nakamura K**, Rossetti S.  
“Thermophilic anaerobic digestion of thermal pretreated sludge: Role of microbial community structure and correlation with process performances.”  
*Water Research*, Vol.68, pp.498-509, 2015/01/01
- [10] Goto K, Suzuki T, Tamai H, Ogawa J, **Imamura A**, **Ando H**, **Ishida H**, **Kiso M.**  
“Total synthesis and neuritogenic activity evaluation of ganglioside PNG-2A from the starfish *Protoreaster nodosus*”  
*Asian J. Org. Chem.*, Vol.4(10), pp.1160-1171, 2015/10
- [11] Hanum Z, Sumantri C, Purwantiningsih, Batubara I, Taufik E, **Mitsunaga T**, Yamauchi K, Ogota Y.  
“Effectivity of fermented goat milk added lactobacillus plantarum as melanin inhibitor”  
*Appl Res J*, Vol.1(5), pp.338-342, 2015/07
- [12] Hayakawa Y, Aoyama T, Yokoyama C, Okamoto C, Komaki H, Minatoguchi S, Iwasa M, Yamada Y, Kawamura I, Kawasaki M, Nishigaki K, Mikami A, **Suzuki F**, Minatoguchi S.  
“High salt intake damages the heart through activation of cardiac (pro) renin receptors even at an early stage of hypertension.”  
*PLoS One.*, Vol.10(3), pp.e0120453, 2015/03/23

- [13] Hirose H, Tamai H, Gao C, **Imamura A, Ando H, Ishida H**, Feizi T, **Kiso M**.  
 “Total syntheses of disulphated glycosphingolipid SB1a and the related monosulphated SM1a”  
*Organic & Biomolecular Chemistry*, Vol.13, pp.11105-11117, 2015
- [14] Horie M, Nishio K, Kato H, Kato H, Endoh S, Fujita K, Nakamura A, Miyauchi A, Kinugasa S, Hagiwara Y, Yoshida Y, **Iwahashi H**.  
 “The Expression of Inflammatory Cytokine and Heme Oxygenase-1 Genes in THP-1 Cells Exposed to Metal Oxide Nanoparticles.”  
*Journal of Nano Research*, Vol.30, pp.116-127, 2015
- [15] Inada N, Nakamoto K, Yokogawa T, **Ueno Y**.  
 “Synthesis of small interfering RNAs containing acetal-type nucleoside analogs at their 3'-ends and analysis of their silencing activity and their ability to bind to the Argonaute2 PAZ domain.”  
*European Journal of Medicinal Chemistry*, Vol.103, pp.460-472, 2015/10/20
- [16] **Katsuno N**, Sakamoto C, **Yabe T, Yamauchi R, Nishizu T**, Kato K.  
 “Methods for enrichment of  $\gamma$ -aminobutyric acid in sesame seeds.”  
*Food Sci. Tech. Res*, Vol.21(6), pp.787-791, 2015
- [17] Khanda Fahmy, **Kohei Nakano**, Fidela Violalita.  
 “Investigation on quantitative index of chilling injury in cucumber fruit based on the electrolyte leakage and malondialdehyde content.”  
*International Journal on Advanced Science Engineering Information Technology*, Vol.5(3), pp.71-74, 2015
- [18] Kim Y, **Iwahashi H**.  
 “Properties of polysaccharides extracted from Phellinus linteus using high hydrostatic pressure processing and hot water treatment.”  
*Journal of Food Process Engineering*, Vol.38(2), pp.197-206, 2015/03
- [19] Kitagawa E, Yamamoto T, Yamamoto K, **Nakagawa T, Hayakawa T**.  
 “Accumulation of lipid in rat liver was induced by vitamin B<sub>6</sub> deficiency and was ameliorated by supplemental phosphatidylcholine in the diet”  
*Biosci. Biotechnol. Biochem.*, Vol.79(8), pp.1320-1326, 2015/03/17
- [20] Matsuoka T, Takasaki A, Mishima T, Kawashima T, Kanamaru Y, Nakamura T, **Yabe T**.  
 “Expression and characterization of honeybee, *Apis mellifera*, larva chymotrypsin-like protease.”  
*Apidologie*, Vol.46(2), pp.167-176, 2015/03
- [21] **Mitsunaga T**, Yamauchi K.  
 “Effect of quercetin derivatives on melanogenesis stimulation of melanoma cells”  
*Journal of Wood Science*, Vol.61(4), pp.351-363, 2015/08
- [22] Morina F, Takahama U, **Yamauchi R**, Hirota S, Veljovic-Jovanovic S.  
 “Quercetin 7-O-glucoside suppresses nitrite-induced formation of dinitrosocatechins and their quinones in catechin/nitrite systems under stomach simulating conditions”  
*Food Funct.*, Vol.6(1), pp.219-229, 2015/01
- [23] Moriya A, Ohki T, Hayai A, **Ueno Y**.  
 “Development of a probe containing novel fluorescent tricyclic-nucleoside analog for detecting single nucleoside polymorphisms.”  
*Heterocycles*, Vol.91(3), pp.515-525, 2015
- [24] **Nakagawa T**, Wakayama K, **Hayakawa T**.  
 “Selection of suitably non-repressing carbon sources for expression of alcohol oxidase isozyme promoters in the methylotrophic yeast *Pichia methanolica*”  
*Journal of Bioscience and Bioengineering*, Vol.120(1), pp.41-44, 2015/07
- [25] Nishida M, Murata K, Oshima K, Itoh C, **Kitaguchi K**, Kanamaru Y, **Yabe T**.  
 “Pectin from *Prunus domestica* L. induces proliferation of IEC-6 cells through the alteration of cell-surface heparan sulfate on differentiated Caco-2 cells in co-culture”  
*Glycoconj. J.*, Vol.32(3), pp.153-159, 2015/05

- [26] Niwa T, Yokoyama S, Kawada Y, **Suzuki T**, Osawa T.  
 “Cleavage of Methyl Ethers by O-Desmethylangolensin-Producing Clostridium Strain SY8519”  
*J Microb Biochem Technol*, Vol.7(5), pp.258-261, 2015
- [27] Nomura K, **Iwahashi H**, Iguchi A, Shigematsu T.  
 “Barosensitivity in *Saccharomyces cerevisiae* is closely associated with a deletion of the *COX1* gene.”  
*Journal of Food Science*, Vol.80(5), pp.M1051-M1059, 2015/05
- [28] Nomura K, **Iwahashi H**, Iguchi A, Shigematsu T.  
 “Depletion of arginine in yeast cells decreases the resistance to hydrostatic pressure.”  
*High Pressure Research*, Vol.35(3), pp.310-316, 2015/04/27
- [29] Ogata A, **Ueno Y**.  
 “Incorporation of an acyclic alkynyl nucleoside analog into siRNA improves silencing activity and nuclease resistance.”  
*Bioorg. Med. Chem. Lett.*, Vol.25(12), pp.2574-2578, 2015/06/15
- [30] Ogawa K, Hirose S, Yamamoto H, **Shimada M**, Nagaoka S, Yanase E.  
 “Synthesis of oolongtheanins and their inhibitory activity on micellar cholesterol solubility in vitro.”  
*Bioorg Med Chem Lett.*, Vol.25(4), pp.749-752, 2015/02/15
- [31] Ogiwara T, Katsumura A, Sugimura K, **Teramoto Y**, Nishio Y.  
 “Calcium Phosphate Mineralization in Cellulose Derivative/Poly(acrylic acid) Composites Having a Chiral Nematic Mesomorphic Structure.”  
*Biomacromolecules*, Vol.16(12), pp.3959-3969, 2015/12/14
- [32] Orikasa T, Okamoto S, Komoda T, Hatanaka S, Togashi C, Muramatsu Y, Koide S, **Thammawong M**, Shiina T, Takawa A.  
 “Analysis of temperature dependency of quality change during far-infrared drying of Komatsuna leaves”  
*Acta Hort.*, Vol.1091, pp.319-326, 2015
- [33] Shiina T, Umehara H, Nakamura N, Ito Y, **Thammawong M**, Yoshida M, Soga A, **Nakano K**, Kaneta T.  
 “Response mechanisms of cabbage head to different strength levels of mechanical impact stress.”  
*Act Hort.*, Vol.1091(39), pp.311-318, 2015
- [34] Shinchi H, Yuki N, **Ishida H**, Hirata K, Wakao M, Suda Y.  
 “Visual detection of human antibodies using sugar chain-immobilized fluorescent nanoparticles:  
 Application as a point of care diagnostic tool for Guillain-Barré syndrome.”  
*PLoS ONE*, Vol.10(9), pp.e0137966, 2015/09/17
- [35] Sugimura K, **Teramoto Y**, Nishio Y.  
 “Insight into miscibility behaviour of cellulose ester blends with N-vinyl pyrrolidone copolymers in terms of viscometric interaction parameters.”  
*Cellulose*, Vol.22(4), pp.2349-2363, 2015/05/19
- [36] Sumida M, Hane M, Yabe U, Shimoda Y, Pearce OM, **Kiso M**, Miyagi T, Sawada M, Varki A, Kitajima K, Sato C.  
 “Rapid trimming of cell surface polySia by exovesicular sialidase triggers release of preexisting surface neurotrophin.”  
*J Biol Chem.*, Vol.290(21), pp.13202-13214, 2015
- [37] Sundaresan R, **Ebihara A**, Kuramitsu S, Yokoyama S, Kumarevel T, Ponnuraj K.  
 “Crystal structure analysis of ornithine transcarbamylase from *Thermus thermophilus* --HB8 provides insights on the plasticity of the active site.”  
*Biochemical and Biophysical Research Communications*, Vol.465(2), pp.174-179, 2015/09/18
- [38] Takada N, Mori C, Takai R, Takayama T, Watanabe Y, **Nakamura K**, **Takamizawa K**.  
 “Involvement of soil bacteria in ABO blood mistyping.”  
*Legal Medicine*, Vol.17(2), pp.128-133, 2015/03

- [39] Takahashi J, Misawa M, **Iwahashi H**.  
“Transcriptome Analysis of Porphyrin-Accumulated and X-Ray-Irradiated Cell Cultures under Limited Proliferation and Non-Lethal Conditions.”  
*Microarrays*, Vol.4(1), pp.25-40, 2015
- [40] Takahashi J, Misawa M, **Iwahashi H**.  
“Gene expression profiling can predict the fate of HeLa cells exposed to X-ray irradiation with or without protoporphyrin accumulation”  
*Genomics Data*, Vol.5, pp.192-194, 2015/09
- [41] Takahashi K, Ito S, Nakamoto K, Ito Y, **Ueno Y**.  
“Photoinduced electron transfer-based hybridization probes for detection of DNA and RNA.”  
*J. Org. Chem.*, Vol.80(17), pp.8561-8570, 2015
- [42] Tamai H, **Imamura A**, Ogawa J, **Ando H**, **Ishida H**, **Kiso M**.  
“First Total Synthesis of Ganglioside GAA-7 from Starfish Asterias amurensis versicolor”  
*Eur. J. Org. Chem.*, Vol.2015(23), pp.5199-5211, 2015/08
- [43] Tatsumi M, **Teramoto Y**, Nishio Y.  
“Different orientation patterns of cellulose nanocrystal films prepared from aqueous suspensions by shearing under evaporation.”  
*Cellulose*, Vol.22(5), pp.2983-2992, 2015/10
- [44] **Teramoto Y**.  
“Functional Thermoplastic Materials from Derivatives of Cellulose and Related Structural Polysaccharides.”  
*Molecules*, Vol.20(4), pp.5487-5527, 2015/03/27
- [45] **Teramoto Y**.  
“Material Functionalization and Its Expanding Bioscientific Perspective for Structural Polysaccharides via Nanoscopic Multicomposition, Orientation Control, and Processing Development”  
*Trends in Glycoscience and Glycotechnology*, Vol.27(155), pp.111-123, 2015
- [46] **Thammawong M**, Umehara H, Nakamura N, Ito Y, Shiina T, Yoshida M, Soga A, **Nakano K**, Kaneta T.  
“Oscillations of Respiration-relating Gene Expression in Postharvest Cabbage Head under Different Controlled Atmosphere (CA) Storage Regimes.”  
*Act Hort.*, Vol.1091(38), pp.303-310, 2015
- [47] Thomason J, Reyes M, Allen SR, Jones RO, Beeram MR, Kuehl TJ, **Suzuki F**, Uddin MN.  
“Elevation of (Pro)Renin and (Pro)Renin Receptor in Preeclampsia.”  
*Am J Hypertens.*, Vol.28(10), pp.1277-1284, 2015/10
- [48] Ueki A, Un K, Mino Y, Yoshida M, Kawakami S, **Ando H**, **Ishida H**, Yamashita F, Hashida M, **Kiso M**.  
“Synthesis and Evaluation of Glyco-coated Liposomes as Drug Carriers for Active Targeting in Drug Delivery Systems.”  
*Carbohydrate Research*, Vol.405, pp.78-86, 2015/03/20
- [49] Wang J, **Shimada M**, Kato Y, Kusada M, **Nagaoka S**.  
“Cholesterol-lowering effect of rice bran protein containing bile acid-binding proteins.”  
*Bioscience, Biotechnology, and Biochemistry*, Vol.79(3), pp.456-461, 2015
- [50] Weinert T, Olieric V, Waltersperger S, Panepucci E, Chen L, Zhang H, Zhou D, Rose J, **Ebihara A**, Kuramitsu S, Li D, Howe N, Schnapp G, Pautsch A, Bargsten K, Prota AE, Surana P, Kottur J, Nair DT, Basilico F, Cecatiello V, Pasqualato S, Boland A, Weichenrieder O, Wang B, Steinmetz MO, Caffrey M, Wang M.  
“Fast native-SAD phasing for routine macromolecular structure determination.”  
*Nat Methods.*, Vol.12(2), pp.131-133, 2015
- [51] <sup>\*1</sup>**Yabe T**, Hosoda-Yabe R, Sakai H, Kanamaru Y, **Kiso M**.  
“Development of a photoreactive probe-based system for detecting heparin”  
*Anal. Biochem.*, Vol.472, pp.1-6, 2015/03/01

- [52] Yamagishi M, Hosoda-Yabe R, Tamai T, Konishi M, **Imamura A, Ishida H, Yabe T, Ando H, Kiso M.** "Structure-activity relationship study of the neuritogenic potential of starfish ganglioside LLG-3." *Mar. Drugs*, Vol.13(12), pp.7250-7274, 2015
- [53] Yamauchi K, **Mitsunaga T**, Inagaki M, **Suzuki T**. "Quercetin derivatives regulate melanosome transportation via EPI64 inhibition and elongate the cell shape of B16 melanoma cells." *Biomedicine & Pharmacotherapy*, Vol.70, pp.206-212, 2015/03
- [54] Yamauchi K, **Mitsunaga T**, Itakura Y, Batubara I. "Extracellular melanogenesis inhibitory activity and the structure-activity relationships of ugonins from *Helminthostachys zeylanica* roots." *Fitoterapia*, Vol.104, pp.69-74, 2015/07
- [55] Yoshida G, Kawasaki M, Murata I, Hayakawa Y, Aoyama T, Miyazaki N, Yamada Y, Nishigaki K, Arai Y, **Suzuki F**, Minatoguchi S "Higher plasma prorenin concentration plays a role in the development of coronary artery disease." *Biomarker research*, Vol.3, pp.18, 2015

※1 Also recorded on Joint Department of Veterinary Medicine

#### 【Course of Agricultural and Environmental Science】

- [1] **Ando M**, Iimura Y, Yoshitake S, Ohtsuka T, Ohtsuka T. "The effect of canopy structure on soil respiration in an old-growth beech-oak forest in central Japan" *Ecological Research*, Vol.30(5), pp.867-877, 2015/09/17
- [2] Daniel S. Falster, Remko A. Duursma, Masae I. Ishihara, Diego R. Barneche, Richard G. FitzJohn, Angelica Vårhammar, Masahiro Aiba, Makoto Ando, Niels Anten, Michael J. Aspinwall, Jennifer L. Baltzer, Christopher Baraloto, Michael Battaglia, John J. Battles, Ben Bond-Lamberty, Michiel van Breugel, James Camac, Yves Claveau, Lluís Coll, Masako Dannoura, Sylvain Delagrange, Jean-Christophe Domec, Farrah Fatemi, Wang Feng, Veronica Gargaglione, Yoshiaki Goto, Akio Hagihara, Jefferson S. Hall, Steve Hamilton, Degi Harja, Tsutomu Hiura, Robert Holdaway, Lindsay S. Hutley, Tomoaki Ichie, Eric J. Jokela, Anu Kantola, Jeff W. G. Kelly, Tanaka Kenzo, David King, Brian D. Kloeppe, Takashi Kohyama, **Akira Komiya**, Jean-Paul Laclau, Christopher H. Lusk, Douglas A. Maguire, Guerric le Maire, Annikki Mäkelä, Lars Markesteijn, John Marshall, Katherine McCulloh, Itsuo Miyata, Karel Mokany, Shigeta Mori, Randall W. Myster, Masahiro Nagano, Shawna L. Naidu, Yann Nouvellon, Anthony P. O'Grady, Kevin L. O'Hara, Toshiyuki Ohtsuka, Noriyuki Osada, Olusegun O. Osunkoya, Pablo Luis Peri, Any Mary Petritan, Lourens Poorter, Angelika Portsmuth, Catherine Potvin, Johannes Ransijn, Douglas Reid, Sabina C. Ribeiro, Scott D. Roberts, Rolando Rodríguez, Angela Saldaña-Acosta, Ignacio Santa-Regina, Kaichiro Sasa, N. Galia Selaya, Stephen C. Sillett, Frank Sterck, Kentaro Takagi, Takeshi Tange, Hiroyuki Tanouchi, David Tissue, Toru Umehara, Hajime Utsugi, Matthew A. Vadeboncoeur, Fernando Valladares, Petteri Vanninen, Jian R. Wang, Elizabeth Wenk, Richard Williams, Fabiano de Aquino Ximenes, Atsushi Yamaba, Toshihiro Yamada, Takuo Yamakura, Ruth D. Yanai, Robert A. York "BAAD: a Biomass And Allometry Database for woody plants." *Ecology*, Vol.96(5), pp.1445, 2015/05/01
- [3] Elsharkawy MM, Nakatani M, Nishimura M, Arakawa T, **Shimizu M, Hyakumachi M**. "Control of tomato bacterial wilt and root-knot diseases by *Bacillus thuringiensis* CR-371 and *Streptomyces avermectinii* NBRC14893" *Acta Agriculturae Scandinavica*, Vol.65(6), pp.575-580, 2015

- [4] Hayami N, Sakai Y, Kimura M, Saito T, Tokizawa M, Iuchi S, Kurihara Y, Matsui M, Nomoto M, Tada Y, **Yamamoto YY**.  
“The Responses of Arabidopsis Early Light-Induced Protein2 to Ultraviolet B, High Light, and Cold Stress Are Regulated by a Transcriptional Regulatory Unit Composed of Two Elements.”  
*Plant Physiol.*, Vol.169(1), pp.840-855, 2015/09
- [5] Hayami N, Sakai Y, Kimura M, Tokizawa M, Nomoto M, Tada Y, Iuchi S, **Yamamoto YY**.  
“Prediction-oriented promoter analysis of ELIP2 revealed novel transcriptional regulatory elements that unites high light, UV-B, and cold stress responses.”  
*Proceedings of the 4th UGSAS-GU International Symposium 2015*, pp.40-41, 2015
- [6] Hayami N, Sakai Y, Saito T, Kimura M, Tokizawa M, Nomoto M, Tada Y, Iuchi S, **Yamamoto YY**.  
“Prediction-oriented promoter analysis of Arabidopsis ELIP2 revealed novel transcriptional regulatory elements that unite UV-B, high light and cold stress response.”  
*Proceedings of the 4th UGSAS-GU International Symposium 2015*, pp.40-41, 2015
- [7] Ifuku K, Yan D, Miyahara M, Inoue-Kashino N, **Yamamoto YY**, Kashino Y.  
“A stable and efficient nuclear transformation system for the diatom *Chaetoceros gracilis*.”  
*Photosynth Res*, Vol.123(2), pp.203-211, 2015/02
- [8] Kokubo M, **Miyagawa S**, Harada M, Takenaka C, **Kawakubo N**, Sivilai S.  
“Animal diversity in trees in the rain-fed paddy fields of Laos.”  
*Trop. Agr. Develop.*, Vol.59(4), pp.190-198, 2015
- [9] Komariah, **Masateru Senge**, Sumani, Widyatmani Sih Dewi, Kohei Yoshiyama, Arief Noor Rachmadiyanto.  
“The impacts of decreasing paddy field area on local climate in Central Java, Indonesia”  
*Libertas Academica Air; Soil and Water Research*, Vol.8 , pp.77-85, 2015/12
- [10] Kondo M, **Ito K**, **Senge M**.  
“Host Fish Species for Glochidia of Anemina arcaeformis Revealed by Artificial Infection Experiment”  
*VENUS*, Vol.73(3-4), pp.127-136, 2015
- [11] **Koyama H**, **Kobayashi Y**, Panda SK, Taylor GJ.  
“The Molecular Physiology and Regulation of Aluminum Resistance in Higher Plants”  
*Aluminum Stress Adaptation in Plants*, Vol.24, pp.169-185, 2015
- [12] Liu J, **Matsubara Y**.  
“Mycorrhiza and sodium chloride-induced systemic resistance to Fusarium root rot and changes in antioxidative ability in asparagus plants.”  
*Acta Hort.*, Vol.1105, pp.115-122, 2015
- [13] Mamun M.S.A, Sato S, Yoshiyama K, **Tsuchida K**, **Iwasawa A**, **Hiramatsu K**, **Nishimura S**.  
“Genetic Diversity of Medaka (*Oryzias latipes*) in Paddy Field Water Channels:- A case study using microsatellite markers in Wanouchi Town, Gifu Prefecture -”  
*The Japanese Society of Irrigation, Drainage and Rural Engineering*, Vol.83(3), pp.I\_99-I\_106, 2015
- [14] Marian K, Ogawa K, Yoshikawa Y, Takasaki S, Usami A, **Shimizu M**, Miyazawa M, **Hyakumachi M**.  
“Agroecosystem development of industrial waste - Suppressive effects of beer yeast cell wall extract on plant diseases.”  
*Current Environmental Engineering*, Vol.1(3), pp.207-211, 2015
- [15] Masaki Ochiai, Yi Liao, Teruaki Shimazu, Yasuhiro Takai, Kenta Suzuki, Shinobu Yano, **Hirokazu Fukui**.  
“Varietal differences in flowering and plant growth under night-break treatment with LEDs in 12 chrysanthemum cultivars.”  
*Environmental Control in Biology*, Vol.53(1), pp.17-22, 2015
- [16] **Matsubara Y**, Yamashita Y, Liu J.  
“Antifungal and antioxidative ability in Laminaceae herbs.”  
*Acta Hort.*, Vol.1105, pp.109-114, 2015

- [17] Matsuo M, Johnson JM, Hieno A, Tokizawa M, Nomoto M, Tada Y, Godfrey R, Obokata J, Sherameti I, **Yamamoto YY**, Böhmer FD, Oelmüller R.  
 “High REDOX RESPONSIVE TRANSCRIPTION FACTOR1 Levels Result in Accumulation of Reactive Oxygen Species in *Arabidopsis thaliana* Shoots and Roots.”  
*Mol Plant*, Vol.8(8), pp.1253-1273, 2015/08
- [18] Mohsen Mohamed Elsharkawy, Mai Nakatani, Mitsuyoshi Nishimura, Tatsuyuki Arakawa, **Masafumi Shimizu , Mitsuro Hyakumachi**.  
 “Suppression of rice blast, cabbage black leaf spot, and tomato bacterial wilt diseases by Meyerozyma guilliermondii TA-2 and the nature of protection”  
*Acta Agriculturae Scandinavica, Section B -- Soil & Plant Science*, Vol.65(7), pp.629-636, 2015
- [19] Mohsen Mohamed Elsharkawy, Tatsuya Hase, Yusuke Yagi, **Masafumi Shimizu, Mitsuro Hyakumachi**.  
 “Induction of systemic resistance against Fusarium crown and root rot disease by blast processing”  
*Journal of Plant Interactions*, Vol.10(1), pp.262-269, 2015
- [20] Nakano M, **Yayota M**, Ohtani S.  
 “Nutrient sufficiency in beef cows grazing on a dwarf bamboo-dominated forestland pasture in Japan.”  
*Animal Science Journal.*, Vol.86(7), pp.689-697, 2015/07
- [21] Nakano Y, Kusunoki K, Iuchi S, Tokizawa M, **Yamamoto YY**, Kobayashi M, **Kobayashi Y**, **Koyama H**.  
 “Adaptive strategies of *Arabidopsis thaliana* to acid soil environment.”  
*Proceedings of the 4th UGSAS-GU International Symposium 2015*, pp.42-43, 2015
- [22] Ohara A, Oyakawa C, Yoshihara Y, **Ninomiya S**, Sato S.  
 “Effect of environmental enrichment on the behavior and welfare of Japanese broilers at a commercial farm”  
*J. Poultry Science*, Vol.52(4), pp.323-330, 2015
- [23] Okita I, Terayama M, **Tsuchida K**.  
 “Cryptic Lineages in the Cardiocondyla sl. kagutsuchi Terayama (Hymenoptera: Formicidae) Discovered by Phylogenetic and Morphological Approaches”  
*Sociobiology*, Vol.62(3), pp.401-411, 2015
- [24] Ozawa M, **Himaki T**, Ookutsu S, Mizobe Y, Ogawa J, Miyoshi K, Yabuki A, Fan J, Yoshida M.  
 “Production of cloned miniature pigs expressing high levels of human apolipoprotein(a) in plasma.”  
*PLoS One*, Vol.10(7), pp.e0132155, 2015/07/06
- [25] Pham TH, **Miyagawa S**, Kosaka Y.  
 “Distribution patterns of trees in paddyfield landscapes in relation to agro-ecological settings in northeast Thailand”  
*Agriculture, Ecosystem and Environment*, Vol.202, pp.42-47, 2015/04/01
- [26] Suchewaboripont V, Iimura Y, Yoshitake S, **Kato S**, **Komyama A**, Ohtsuka T.  
 “Change in biomass of an old-growth beech-oak forest of Mt. Hakusan over a 17-year period”  
*Japanese journal of Forest Environment*, Vol.57(1), pp.33-42, 2015
- [27] Tazib T, **Kobayashi Y**, **Koyama H**, **Matsui T**.  
 “QTL analyses for anther length and dehiscence at flowering as traits for the tolerance of extreme temperatures in rice (*Oryza sativa L.*)”  
*Euphytica*, Vol.203(3), pp.629-642, 2015/06
- [28] Tokizawa M, **Kobayashi Y**, Saito T, Kobayashi M, Satoshi I, Nomoto M, Tada Y, **Yamamoto YY**, **Koyama H**.  
 “SENSITIVE TO PROTON RHIZOTOXICITY1, CALMODULIN BINDING TRANSCRIPTION ACTIVATOR2, and other transcription factors are involved in ALUMINUM-ACTIVATED MALATE TRANSPORTER1 expression.”  
*Plant Physiol.*, Vol.167(3), pp.991-1003, 2015/03

- [29] Tsuruta M, **Mukai Y.**  
 “Hybrid seedling inviability locus (HIs1) mapped on linkage group 4 of the Japanese flowering cherry, *Cerasus × yedoensis* ‘Somei-yoshino’”  
*Tree Genetics & Genomes*, Vol.11, pp.88, 2015/10
- [30] Uusi-Heikkilä S, Whiteley AR, Kuparinen A, **Matsumura S**, Venturelli PA, Wolter C, Slate J, Primmer CR, Meinelt T, Killen SS, Bierbach D, Polverino G, Ludwig A, Arlinghaus R.  
 “The evolutionary legacy of size-selective harvesting extends from genes to populations.”  
*Evolutionary Applications*, Vol.8(6), pp.597-620, 2015/07
- [31] Vonny Indah Mutiara, **Arai Satoshi**.  
 “Study on Development of Organic Rice Farming System Leading by Local Government and Expert Organic Farmers, A Case Study in West Sumatra, Indonesia”  
*Agricultural Marketing Journal. of Japan*, Vol.24(1), pp.48-53, 2015/06/30
- [32] Wagatsuma T, Khan MS, Watanabe T, Maejima E, Sekimoto H, Yokota T, Nakano T, Toyomasu T, Tawaraya K, **Koyama H**, Uemura M, Ishikawa S, Ikka T, Ishikawa A, Kawamura T, Murakami S, Ueki N, Umetsu A, Kannari T.  
 “Higher sterol content regulated by CYP51 with concomitant lower phospholipid content in membranes is a common strategy for aluminium tolerance in several plant species.”  
*J Exp Bot.*, Vol.66(3), pp.907-918, 2015/02
- [33] Weijun Wu, Kohei Yoshiyama, **Masateru Senge**.  
 “Atmospheric conditions, landscape characteristics, and anthropogenic factors affecting stream water temperature”  
*Reviews in Agricultural Science*, Vol.3, pp.46-53, 2015/10
- [34] Widyatmani S Dewi, **Masateru Senge**.  
 “EARTHWORM DIVERSITY AND ECOSYSTEM SERVICES UNDER THREAT”  
*Reviews in Agricultural Science*, Vol.3, pp.25-35, 2015
- [35] Widyatmani Sih Dewi, MTh. Sri Budiastuti, Sumarno, Nur Fikri Nawawi, Berlian Christa, Komariah, **Masateru Senge**.  
 “Hydrological Performance of Pine Tree, Melinjo and Jackfruit for Rehabilitation of Catchment Area of Slope of Mt. Merapi, Indonesia after 2010 Eruption”  
*Journal of Environment and Earth Science*, Vol.5(8), pp.173-179, 2015
- [36] Yang Y, **Onishi T, Hiramatsu K.**  
 “Impacts of different spatial temperature interpolation methods on snowmelt simulations”  
*Hydrological Research Letters*, Vol.9(2), pp.27-34, 2015/05/29
- [37] ※2 **Yayota M**, Kato A, Ishida M, Ohtani S.  
 “Ingestive behavior and short-term intake rate of cattle grazing on tall grasses”  
*Livestock Science*, Vol.180, pp.113-120, 2015/10

※2 Also recorded on Field Science Center

#### 【Joint Department of Veterinary Medicine】

- [1] Abdo W, Hirata A, Shukry M, Kamal T, Abdel-Sattar E, Mahrous E, **Yanai T.**  
 “Calligonum comosum extract inhibits diethylnitrosamine-induced hepatocarcinogenesis in rats.”  
*Oncol. Letter*, Vol.10(2), pp.716-722, 2015/08
- [2] Abou Asa S, **Mori T, Maruo K**, Khater A, El-Sawak A, Abd El-Aziz E, **Yanai T, Sakai H.**  
 “Analysis of genomic mutation and immunohistochemistry of platelet-derived growth factor receptors in canine vascular tumours.”  
*Vet Comp Oncol*, Vol.13(3), pp.237-245, 2015/09

- [3] Almadaly E, Hoshino Y, Ueta T, Mukoujima K, Shukry M, Farrag F, El-Kon I, Kita K, **Murase T**. “Desalting and lyophilized bovine seminal plasma delays induction of the acrosome reaction in frozen-thawed bovine spermatozoa in response to calcium ionophore.” *Theriogenology.*, Vol.83(2), pp.175-185, 2015/01/15
- [4] Anwar Sh, **Yanai T, Sakai H**. “Immunohistochemical Detection of Urokinase Plasminogen Activator and Urokinase Plasminogen Activator Receptor in Canine Vascular Endothelial Tumours.” *J Comp Pathol.*, Vol.153(4), pp.278-282, 2015/11
- [5] Asahina R, Kamishina H, **Kamishina H, Maeda S**. “Gene transcription of pro-inflammatory cytokines and chemokines induced by IL-17A in canine keratinocytes.” *Vet. Dermatol.*, Vol.26(6), pp.426-431, 2015/12
- [6] **Atoji Y**. “Expression of ionotropic glutamate receptors, AMPA, kainite and NMDA, in the pigeon retina” *Exp Eye Res.*, Vol.136, pp.72-77, 2015/07
- [7] Baba M, Sato M, **Kitoh K, Takashima Y**. “The distribution pattern of  $\alpha$ 2,3- and  $\alpha$ 2,6-linked sialic acids affects host cell preference in *Toxoplasma gondii*.” *Exp. Parasitol.*, Vol.155, pp.74-81, 2015/08
- [8] El-Dakhly KM, Goto M, Noishiki K, El-Nahass ES, **Sakai H, Yanai T, Takashima Y**. “Distribution pattern of *Babesia gibsoni* infection in hunting dogs from nine Japanese islands.” *J. Parasitol.*, Vol.101(2), pp.160-166, 2015/04
- [9] El-Morsey A, El-Seify M, Abdel-Razik Y, Abdel-Aziz MM, El-Dakhly KM, Kasem S, Abdo W, Hardy M, **Sakai H, Yanai T**. “Morphologic and molecular characteristics of *Sarcocystis atraii* n. sp. (*Apicomplexa: Sarcocystidae*) infecting the common coot (*Fulica atra*) from Egypt.” *Acta Parasitologica*, Vol.60(4), pp.691-699, 2015/12
- [10] El-Morsey A, El-Seify M, Desouky AY, Abdel-Aziz MM, **Sakai H, Yanai T**. “*Sarcocystis chloropusae* (protozoa; *Sarcocystidae*) n. sp. from the common moorhen (*Gallinula chloropus*) from Egypt.” *Parasitol.*, Vol.142(8), pp.1063-1065, 2015/07
- [11] Heishima K, **Mori T, Ichikawa Y, Sakai H, Kuranaga Y, Nakagawa T, Tanaka Y, Okamura Y, Masuzawa M, Sugito N, Murakami M, Yamada N, Akao Y, Maruo K**. “MicroRNA-214 and MicroRNA-126 Are Potential Biomarkers for Malignant Endothelial Proliferative Diseases.” *Int J Mol Sci.*, Vol.16(10), pp.25377-25391, 2015/10/23
- [12] Heishima K, **Mori T, Sakai H, Sugito N, Murakami M, Yamada N, Akao Y, Maruo K**. “MicroRNA-214 Promotes Apoptosis in Canine Hemangiosarcoma by Targeting the COP1-p53 Axis.” *PLoS One*, Vol.10(9), pp.e0137361, 2015/09/03
- [13] Hirako A, Sugiyama A, Sakurai M, Ozaki K, **Sakai H, Takeuchi T, Morita T, MoorePF**. “Cutaneous histiocytic sarcoma with E-cadherin expression in a Pembroke Welsh Corgi dog.” *J Vet Diagn Invest.*, Vol.27(5), pp.589-595, 2015/09
- [14] Hirata A, Hashimoto K, Katoh Y, **Sakai H, Bruce AG, Rose TM, Kaneko A, Suzuki J, Nikami H, Yanai T**. “Characterization of Spontaneous Malignant Lymphomas in Japanese Macaques (*Macaca fuscata*).” *Vet Pathol.*, Vol.52(3), pp.566-572, 2015/05
- [15] Ibi K, Murakami T, Goda WM, Kobayashi N, **Ishiguro N, Yanai T**. “Prevalence of amyloid deposition in mature healthy chickens in the flock that previously had outbreaks of vaccine-associated amyloidosis.” *J Vet Med Sci.*, Vol.77(10), pp.1241-1245, 2015/10

- [16] Inoue S, Yonemaru K, **Yanai T, Sakai H.**  
 “Mixed germ cell-sex cord-stromal tumor with a concurrent interstitial cell tumor in a ferret.”  
*J Vet Med Sci.*, Vol.77(2), pp.225-228, 2015/02
- [17] Kano R, Okubo M, **Yanai T**, Hasegawa A, Kamata H.  
 “First isolation of azole-resistant Cryptococcus neoformans from feline cryptococcosis.”  
*Mycopathologica*, Vol.180(5), pp.427-433, 2015/12
- [18] <sup>※3</sup>Kawabe M, Baba Y, Tamai R, Yamamoto R, Komori M, **Mori T**, Takenaka S.  
 “Profiling of plasma metabolites in canine oral melanoma using gas chromatography-mass spectrometry.”  
*J Vet Med Sci.*, Vol.77(8), pp.1025-1028, 2015/08
- [19] <sup>※4</sup>Kawabe M, **Mori T**, Ito Y, **Murakami M, Sakai H, Yanai T, Maruo K.**  
 “Outcomes of dogs undergoing radiotherapy for treatment of oral malignant melanoma: 111 cases (2006-2012).”  
*J Am Vet Med Assoc*, Vol.247(10), pp.1146-1153, 2015/11/15
- [20] Kinoshita K, Tada Y, Muroi Y, **Unno T**, Ishii T.  
 “Selective loss of dopaminergic neurons in the substantia nigra pars compacta after systemic administration of MPTP facilitates extinction learning.”  
*Life Sci.*, Vol.137, pp.28-36, 2015/09/15
- [21] Kojima A, Matsushita Y, Ogura Y, Ishikawa S, Noda T, **Murase T**, Harayama H.  
 “Roles of extracellular Ca<sup>2+</sup> in the occurrence of full-type hyperactivation in boar ejaculated spermatozoa pre-incubated to induce the cAMP-triggered events.”  
*Andrology*, Vol.3(2), pp.321-331, 2015/03
- [22] Kudo D, Inden M, Sekine S, Tamaoki N, Iida K, Naito E, **Watanabe K, Kamishina H**, Shibata T, Hozumi I.  
 “Conditioned medium of dental pulp cells stimulated by Chinese propolis show neuroprotection and neurite extension in vitro.”  
*Neurosci. Lett.*, Vol.589, pp.92-97, 2015/03/04
- [23] Kuroda K, Hibi D, Ishii Y, Yokoo Y, Takasu S, Kijima A, Matsushita K, Masumura K.-I, Kodama Y, **Yanai T, Sakai H**, Nohmi T, Ogawa K, Umemura T.  
 “Role of p53 in the progression from ochratoxin A-Induced DNA damage to gene mutations in the kidneys of mice”  
*Toxicological Sciences*, Vol.144(1), pp.65-76, 2015/03
- [24] Lin FY, Tseng YY, Chan KW, Kuo ST, Yang CH, Wang CY, **Takasu M**, Hsu WL, Wong ML.  
 “Suppression of influenza virus infection by the orf virus isolated in Taiwan”  
*J Vet Med Sci.*, Vol.77(9), pp.1055-1062, 2015/09
- [25] Mashita T, **Kamishina H**, Nakamoto Y, Akagi Y, Nakanishi A, Harasaki Y, Ozawa T, Uemura T, Kobatake Y, Shimamura S, Kitamura N, **Maeda S**, Uzuka Y, Shaw G, Yasuda J.  
 “Combination of serum phosphorylated neurofilament heavy subunit and hyperintensity of intramedullary T2W on magnetic resonance imaging provides better prognostic value of canine thoracolumbar intervertebral disc herniation.”  
*J. Vet. Med. Sci.*, Vol.77(4), pp.433-438, 2015/04
- [26] Matsubara T, **Nishii N**, Takashima S, **Takasu M**, Imaeda N, Aiki-Oshima K, **Yamazoe K**, Kametani Y, Ando A, **Kitagawa H.**  
 “Identification of a CD4 variant in Microminipigs not detectable with available anti-CD4 monoclonal antibodies.”  
*Vet Immunol Immunopathol.*, Vol.168(3-4), pp.176-183, 2015/12/15
- [27] <sup>※5</sup>Matsuyama R, Kuninaga N, Morimoto T, Shibano T, Sudo A, Sudo K, **Asano M, Suzuki M**, Asai T.  
 “Isolation and Antimicrobial Susceptibility of *Plesiomonas shigelloides* from Great Cormorants (*Phalacrocorax carbo hanedae*) in Gifu and Shiga Prefectures, Japan.”  
*J. Vet. Med. Sci.*, Vol.77(9), pp.1179-1181, 2015/09

- [28] <sup>※6</sup>Matsuyama R, Yabusaki T, Kuninaga N, Morimoto T, Okano T, **Suzuki M, Asano M.**  
“Coexistence of two different genotypes of *Sarcoptes scabiei* derived from companion dogs and wild raccoon dogs in Gifu, Japan: The genetic evidence for transmission between domestic and wild canids.”  
*Veterinary Parasitology*, Vol.212(3-4), pp.356-360, 2015/09/15
- [29] Mitake H, **Ito N**, Okadera K, Okada K, Nakagawa K, Tanaka T, Katsuragi K, Kasahara K, Nihongi T, Sakurai S, Tsunemitsu H, **Sugiyama M.**  
“Persistence of the rotavirus A genome in mesenteric lymph nodes of cattle raised on farms.”  
*J Gen Virol.*, Vol.96(9), pp.2708-2713, 2015/09
- [30] Mitake H, **Ito N**, Okadera K, Okada K, Nakagawa K, Tanaka T, Katsuragi K, Nihongi T, Tsunemitsu H, **Sugiyama M.**  
“Detection of Avian-like Rotavirus A VP4 from a Calf in Japan.”  
*J. Vet. Med. Sci.*, Vol.77(2), pp.221-224, 2015
- [31] Miyazaki A, Yonemaru K, Hirata A, **Yanai T, Sakai H.**  
“Histopathological and immunohistochemical features of atypical epithelial tumours of the gland of the third eyelid in seven dogs.”  
*J Comp Pathol.*, Vol.152(4), pp.299-303, 2015/05
- [32] <sup>※7</sup>**Mori T, Ito Y, Kawabe M, Iwasaki R, Sakai H, Murakami M, Maruo K.**  
“Three-dimensional conformal radiation therapy for inoperable massive hepatocellular carcinoma in six dogs.”  
*The Journal of small animal practice*, Vol.56(7), pp.441-445, 2015/07
- [33] Muhammad N, Murakami T, **Inoshima Y, Ishiguro N.**  
“Long-term kinetics of AA amyloidosis and effects of inflammatory restimulation after disappearance of amyloid depositions in mice.”  
*Clin Exp Immunol.*, Vol.181(1), pp.133-141, 2015/07
- [34] Murakami T, **Inoshima Y, Ishiguro N.**  
“Systemic AA amyloidosis as a prion-like disorder.”  
*Virus Research*, Vol.207, pp.76-81, 2015/09/02
- [35] Nabeka H, Shimokawa T, Doihara T, **Saito S, Wakisaka H, Hamada F, Kobayashi N, Matsuda S.**  
“A prosaposin-derived Peptide alleviates kainic Acid-induced brain injury.”  
*Plos One*, Vol.10(5), pp.e0126856, 2015/05/18
- [36] <sup>※8</sup>Nagata N, **Shibata S, Sakai H, Konno H, Takashima S, Kawabe M, Mori T, Kitagawa H, Washizu M.**  
“Gallbladder lymphoma in a miniature dachshund.”  
*J Vet Med Sci.*, Vol.77(1), pp.117-121, 2015/01
- [37] Naito E, Kudo D, Sekine S, **Watanabe K, Kobatake Y, Tamaoki N, Inden M, Iida K, Ito Y, Hozumi I, Shibata T, Maeda S, Kamishina H.**  
“Characterization of canine dental pulp cells and their neuroregenerative potential.”  
*In Vitro Cell Dev Biol Anim.*, Vol.51(10), pp.1012-1022, 2015/11
- [38] Naitou K, **Shiina T, Kato K, Nakamori H, Sano Y, Shimizu Y.**  
“Colokinetic effect of noradrenaline in the spinal defecation center: implication for motility disorders.”  
*Sci Rep.*, Vol.5, pp.12623, 2015
- [39] Naitou K, **Shiina T, Sugita R, Nakamori H, Shimizu Y.**  
“Characterization of ghrelin-sensitive neurons in the lumbosacral defecation center in rats.”  
*Neurogastroenterol Motil.*, Vol.27(1), pp.147-155, 2015/01
- [40] Nakamae S, Kobatake Y, Suzuki R, Tsukui T, Kato S, Yamato O, **Sakai H, Urushitani M, Maeda S, Kamishina H.**  
“Accumulation and aggregate formation of mutant superoxide dismutase 1 in canine degenerative myelopathy.”  
*Neuroscience.*, Vol.303, pp.229-240, 2015/09/10

- [41] Nakanishi A, Mashita T, Akiyama K, Nakanishi W, **Mori T**, Yano M, Asai T, Kano R, Shimamura S, Yasuda J.  
 “Suppurative granulomatous sinorhinitis associated with *Nocardia* spp. infection in a cat.”  
*J Vet Med Sci*, Vol.77(5), pp.597-599, 2015/05
- [42] Noguchi S, **Mori T**, Igase M, Mizuno T.  
 “A novel apoptosis-inducing mechanism of 5-aza-2'-deoxycytidine in melanoma cells: Demethylation of TNF- $\alpha$  and activation of FOXO1.”  
*Cancer Lett*, Vol.369(2), pp.344-353, 2015/12/28
- [43] Noguchi S, **Mori T**, Nakagawa T, Itamoto K, Haraguchi T, Mizuno T.  
 “DNA methylation contributes toward silencing of antioncogenic microRNA-203 in human and canine melanoma cells.”  
*Melanoma Research*, Vol.25(5), pp.390-398, 2015/10
- [44] Ogawa S, Murakami T, **Inoshima Y, Ishiguro N.**  
 “Effect of heating on the stability of amyloid A (AA) fibrils and the intra- and cross-species transmission of AA amyloidosis.”  
*Amyloid*, Vol.22(4), pp.236-243, 2015/12
- [45] Ohtani A, Kubo M, Shimoda H, **Ohya K**, Iribe T, Ohishi D, Endoh D, Omatsu T, Mizutani T, **Fukushi H**, Maeda K.  
 “Genetic and antigenic analysis of *Chlamydia pecorum* strains isolated from calves with diarrhea.”  
*J. Vet. Med. Sci.*, Vol.77(7), pp.777-782, 2015
- [46] Okada A, Izume S, **Ohya K, Fukushi H.**  
 “Equine herpesvirus type 1 tegument protein VP22 is not essential for pathogenicity in a hamster model but is required for efficient viral growth in cultured cells”  
*J Vet Med Sci.*, Vol.77(10), pp.1293-1297, 2015/10
- [47] Rahman M, Alauddin Md, Hossain Mozafor KM, Hemayetul Islam Md, **Kitoh K**, Nagamune K, **Takashima Y.**  
 “Prevalence and dynamics of antibodies against *Toxoplasma gondii* in kids born from naturally infected goats.”  
*Parasitol. Int.*, Vol.64(5), pp.389-391, 2015/10
- [48] Sano Y, **Shiina T**, Naitou K, Nakamori H, **Shimizu Y.**  
 “Hibernation-specific alternative splicing of the mRNA encoding cold-inducible RNA-binding protein in the hearts of hamsters.”  
*Biochemical and biophysical research communications*, Vol.462(4), pp.322-325, 2015/07/10
- [49] **Shiina T**, Naitou K, Nakamori H, **Sakai H, Shimizu Y.**  
 “Regulation of longitudinal esophageal motility in the house musk shrew (*Suncus murinus*).”  
*Auton Neurosci.*, Vol.189, pp.37-42, 2015/05
- [50] **Shiina T**, Shima T, Naitou K, Nakamori H, Sano Y, Horii K, Shimakawa M, Ohno H, **Shimizu Y.**  
 “Actions of probiotics on trinitrobenzenesulfonic acid (TNBS)-induced colitis in rats”  
*BioMed Research International*, Vol.2015, pp.8, 2015
- [51] Suzuki T, **Nishii N**, Takashima S, Matsubara T, Iwasawa A, Takeuchi H, Tahara K, Hachisu T, **Kitagawa H.**  
 “Ligand-binding characteristics of feline insulin-binding immunoglobulin G.”  
*J Vet Med Sci.*, Vol.77(11), pp.1379-1383, 2015/11
- [52] Takahashi K, **Inoshima Y, Ishiguro N.**  
 “Role of cell death in the propagation of PrP<sup>Sc</sup> in immune cells.”  
*Arch. Virol.*, Vol.160(3), pp.693-699, 2015/03
- [53] **Takasu M**, Tsuji E, Imaeda N, Matsubara T, Maeda M, Ito Y, **Shibata S**, Ando A, **Nishii N, Yamazoe K, Kitagawa H.**  
 “Body and major organ sizes of young mature Microminipigs determined by computed tomography.”  
*Lab Anim.*, Vol.49(1), pp.65-70, 2015/01

- [54] **Watanabe K**, Hayashi K, Kijima S, Nonaka C, **Yamazoe K**.  
 “Tooth brushing inhibits oral bacteria in dogs.”  
*J. Vet. Med. Sci.*, Vol.77(10), pp.1323-1325, 2015/10
- [55] <sup>※1</sup>Yabe T, Hosoda-Yabe R, **Sakai H**, Kanamaru Y, Kiso M.  
 “Development of a photoreactive probe-based system for detecting heparin”  
*Anal. Biochem.*, Vol.472, pp.1-6, 2015/03/01

<sup>※1</sup> Also recorded on Course of Applied Life Science  
<sup>※3</sup> Also recorded on Animal Medical Center  
<sup>※4</sup> Also recorded on Animal Medical Center  
<sup>※7</sup> Also recorded on Animal Medical Center  
<sup>※8</sup> Also recorded on Animal Medical Center

### 【Field Science Center】

- [1] <sup>※2</sup>Yayota M, Kato A, **Ishida M**, Ohtani S.  
 “Ingestive behavior and short-term intake rate of cattle grazing on tall grasses”  
*Livestock Science*, Vol.180, pp.113-120, 2015/10

<sup>※2</sup> Also recorded on Course of Agricultural and Environmental Science

### 【Animal Medical Center】

- [1] <sup>※3</sup>**Kawabe M**, Baba Y, Tamai R, Yamamoto R, Komori M, Mori T, Takenaka S.  
 “Profiling of plasma metabolites in canine oral melanoma using gas chromatography-mass spectrometry.”  
*J Vet Med Sci.*, Vol.77(8), pp.1025-1028, 2015/08
- [2] <sup>※4</sup>**Kawabe M**, Mori T, Ito Y, Murakami M, Sakai H, Yanai T, Maruo K.  
 “Outcomes of dogs undergoing radiotherapy for treatment of oral malignant melanoma: 111 cases (2006-2012).”  
*J Am Vet Med Assoc*, Vol.247(10), pp.1146-1153, 2015/11/15
- [3] <sup>※7</sup>Mori T, Ito Y, **Kawabe M**, Iwasaki R, Sakai H, Murakami M, Maruo K.  
 “Three-dimensional conformal radiation therapy for inoperable massive hepatocellular carcinoma in six dogs.”  
*The Journal of small animal practice*, Vol.56(7), pp.441-445, 2015/07
- [4] <sup>※8</sup>Nagata N, Shibata S, Sakai H, Konno H, Takashima S, **Kawabe M**, Mori T, Kitagawa H, Washizu M.  
 “Gallbladder lymphoma in a miniature dachshund.”  
*J Vet Med Sci.*, Vol.77(1), pp.117-121, 2015/01

<sup>※3</sup> Also recorded on Joint Department of Veterinary Medicine  
<sup>※4</sup> Also recorded on Joint Department of Veterinary Medicine  
<sup>※7</sup> Also recorded on Joint Department of Veterinary Medicine  
<sup>※8</sup> Also recorded on Joint Department of Veterinary Medicine

### 【Research Center for Wildlife Management】

- [1] <sup>※5</sup>Matsuyama R, Kuninaga N, **Morimoto T**, Shibano T, Sudo A, Sudo K, Asano M, Suzuki M, Asai T.  
“Isolation and Antimicrobial Susceptibility of *Plesiomonas shigelloides* from Great Cormorants (*Phalacrocorax carbo hanedae*) in Gifu and Shiga Prefectures, Japan.”  
*J. Vet. Med. Sci.*, Vol.77(9), pp.1179-1181, 2015/09
- [2] <sup>※6</sup>Matsuyama R, Yabusaki T, Kuninaga N, **Morimoto T**, Okano T, Suzuki M, Asano M.  
“Coexistence of two different genotypes of *Sarcoptes scabiei* derived from companion dogs and wild raccoon dogs in Gifu, Japan: The genetic evidence for transmission between domestic and wild canids.”  
*Veterinary Parasitology*, Vol.212(3-4), pp.356-360, 2015/09/15

※5 Also recorded on Joint Department of Veterinary Medicine

※6 Also recorded on Joint Department of Veterinary Medicine

### 2) Book

#### 【Course of Applied Life Science】

- [1] Inagaki M, **Yabe T**, Kanamaru Y.  
“The potential of cow’s milk proteins for prophylaxis against intestinal infection.”  
*Whey proteins: Functional properties, production and health benefits*, pp.163-177, 2015
- [2] **Iwahashi H.**  
“Pressure-Dependent Gene Activation in Yeast Cells High Pressure Bioscience and Biotechnology”  
*Springer*(Akasaka K, Matuki H eds), pp.407-422, 2015
- [3] **Yabe T**, Maeda N.  
“Histochemical analysis of heparan sulfate 3-O-sulfotransferase expression in mouse brain.”  
*Glycosaminoglycans: Chemistry and Biology, Methods in Molecular Biology*, Vol.1229, pp.377-387, 2015

#### 【Course of Agricultural and Environmental Science】

- [1] **Matsubara Y**, Liu J, Okada T.  
“Effect of NaCl on tolerance to Fusarium crown rot and symbiosis-specific changes in free amino acids in mycorrhizal asparagus. In: Organic amendments and soil suppressiveness in plant disease management.”  
*Springer*, pp.511-520, 2015

#### 【Research Center for Wildlife Management】

- [1] **Moribe J.**  
“Sorex hosonoi • Sorex shinto. In: The Wild Mammals of Japan, Second edition. S. D. Ohdachi,et al. eds.”  
*Shoukadoh Book Sellers, Kyoto*. pp. 4-5, 6-7, 2015

## II Lectures, Conference Presentation, etc.

### 1) Conference Presentation

#### 【Course of Applied Life Science】

- [1] Akther J, **Ebihara A, Nakagawa T**, Islam LN, Suzuki F, Nabi AH.  
“Analyses of Genetic Variations of Tumor Suppressor p53 Gene at Codon 72 in Bangladeshi Tannery Workers and Healthy Controls.”  
Bangladesh Society for Biochemistry and Molecular Biology(Dhaka Bangladesh), 2015/03
- [2] **Ando H.**  
“Synthetic chemistry challenging to diversity of gangliosides.”  
The 3rd International Symposium on Glyco-Neuroscience(Awaji city, Hyogo), 2015/01/14-16
- [3] Asai S, Kashima Y, Kanematsu S, Kusada M, Watanabe S, Kawashima T, Nakamura T, **Shimada M**, Goto T, **Nagaoka S.**  
“Major royal jelly protein 1 (MRJP1) is a novel hypocholesterolemic protein derived from royal jelly”  
ACN2015(Yokohama), 2015/05/14-18
- [4] Ben Othman S, **Katsuno N**, Fujimura M, **Kitaguchi K, Yabe T.**  
“Neuroprotective effect of sesame seed water-soluble fraction: antioxidant and anti-apoptotic mechanisms”  
The 18th International Conference of Functional Food Center(Boston, USA), 2015/09/15
- [5] Chen B, Ding Y, Morioka S, **Nakagawa T, Hayakawa T.**  
“Comparative effects of resistant starch in the maintenance of large intestinal environment.”  
12th Asian Congress of Nutrition(Pacifico Yokohama), 2015/05/15
- [6] Goto K, Suzuki T, Tamai H, Ogawa J, **Ando H, Imamura A, Ishida H, Kiso M.**  
“Total synthesis of ganglioside PNG-2A found in the starfish Protoreaster nodosus.”  
The 2015 International Chemical Congress of Pacific Basin Societies (PAC CHEM™)( Honolulu, Hawaii, USA), 2015/12/15-20
- [7] Hori A, Konishi M, **Imamura A, Ando H, Ishida H, Kiso M.**  
“Detailed examination of reactivity of mono-benzylated glucosyl and galactosyl donors.”  
The 2015 International Chemical Congress of Pacific Basin Societies (PAC CHEM™)( Honolulu, Hawaii, USA), 2015/12/15-20
- [8] **Imamura A, Ando H, Ishida H, Kiso M.**  
“What is the origin of high stereoselectivity in the DTBS-directed  $\alpha$ -galactosylation?”  
The 2015 International Chemical Congress of Pacific Basin Societies (PAC CHEM™)( Honolulu, Hawaii, USA), 2015/12/15-20
- [9] Ishisono K, **Kitaguchi K, Yabe T.**  
“Citrus pectin attenuates lipopolysaccharide-induced inflammatory responses in RAW264.7 macrophage cells”  
The 4th UGSAS-GU International Symposium 2015(Gifu), 2015/08/26
- [10] Ishisono K, **Kitaguchi K, Yabe T.**  
“Citrus pectin attenuates septic shock by reducing gene expression of inflammatory cytokines in Peyer’s patch cells”  
7th ACGG Annual Conference(Matsushima), 2015/11/12-15
- [11] Kitagawa E, Yamamoto T, Yamamoto K, **Nakagawa T, Hayakawa T.**  
“Amelioration of fatty liver induced by vitamin B<sub>6</sub> deficiency in rats by choline and PC.”  
12th Asian Congress of Nutrition(Pacifico Yokohama), 2015/05/17
- [12] Kommagalla Y, Suganuma Y, Futamura T, **Imamura A, Ando H, Tsubata T, Ishida H, Kiso M.**  
“Synthesis and biological evaluation of the mimics of cisligand for CD22.”  
7th iCeMS Retreat(Kyoto), 2015/09/07-08

- [13] **Nakagawa T.**  
“Molecular mechanism of acetaldehyde tolerance in the budding yeast”  
The 1st GU-NAST International Joint Meeting (GU-NAST 2015)(Gifu University), 2015/12/10-11
- [14] **Nakagawa T, Wakayama K, Hayakawa T.**  
“Selection of suitably non-repressing carbon sources for expression of alcohol oxidase isozyme promoters in the methylotrophic yeast *Pichia methanolica*”  
32nd International Specialized Symposium on Yeasts(Perugia, Italy), 2015/0913-17
- [15] **Nakamura K, Yamada M, Fujioka D, Takatnizawa K, Shinzato N, Saitoh S, Aoyama H.**  
“Prokaryotic Diversity in Alkane-oxidizing Methanogenic Community From Production Water of Oil and Gas Seep”  
The International Kasetsart University Science and Technology Annual Research Symposium 2015(Thailand), 2015/05
- [16] **Pal R, Komura N, Imamura A, Ishida H, Ando H, Kiso M.**  
“Chemical synthesis of cell surface glycans in pluripotent stem cells for cultivating their biological potential.”  
iCeMS International Symposium "Hierarchical Dynamics in Soft Materials and Biological Matter"( Kyoto University), 2015/09/23-26
- [17] **Sakai Y, Komuro A, Yamamoto T, Shimada M, Nagaoka S.**  
“A novel hypocholesterolemic pentapeptide, lactstatin, inhibits cholesterol absorption via the suppression of ABCA1 gene expression in Caco-2 cells”  
ACN2015(Yokohama), 2015/05/14-18
- [18] **Shimabukuro J, Makio H, Suzuki T, Ando H, Yamada Y, Ishida H, Wakatsuki S, Kato R, Kiso M.**  
“Synthesis of selenium-containing fucose derivatives and their application for the X-ray structural analysis of fucose-binding lectin from *Aspergillus oryzae*.”  
The 2015 International Chemical Congress of Pacific Basin Societies (PAC CHEM™)( Honolulu, Hawaii, USA), 2015/12/15-20
- [19] **Shimabukuro J, Makio H, Suzuki T, Ando H, Yamada Y, Kato R, Wakatsuki S, Ishida H, Kiso M.**  
“Synthesis of seleno-fucoses and their application for X-ray structural analysis offucose binding protein.”  
7th iCeMS Retreat(Kyoto), 2015/09/07-08
- [20] **Suzuki T, Shimabukuro J, Makyio H, Ishida H, Ando H, Kato R, Kiso M.**  
“Development of selenium-containing sugar probes for X-ray crystallographic analysis of glycan-protein complexes.”  
iCeMS International Symposium "Hierarchical Dynamics in Soft Materials and Biological Matter"( Kyoto University), 2015/09/23-26
- [21] **Tamaru R, Ishikawa N, Goto K, Katsuno N, Nishizuka T.**  
“The rapid detection of milk added coffee precipitation by using ultra phase velocity”  
ICEF12(Canada), 2015/06/14-18
- [22] **Wang J, Kato Y, Shimoda H, Shimada M, Nagaoka S.**  
“Cholesterol-lowering effect of rice bran protein containing bile acid-binding proteins”  
ACN2015(Yokohama), 2015/05/14-18
- [23] **Yagami N, Konishi M, Tamai H, Ueki A, Imamura A, Ando H, Ishida H, Kiso M.**  
“1,2-trans-Selective glycosidation using novel bicyclic glycosyl donors S-43”  
7th iCeMS Retreat(Kyoto), 2015/09/07-08
- [24] **Yagami N, Konishi M, Tamai H, Ueki A, Imamura A, Ando H, Ishida H, Kiso M.**  
“Examination of 1,2-trans-selective glycosidation of glycosyl donors bearing 2,3-cyclic protecting group.”  
The 2015 International Chemical Congress of Pacific Basin Societies (PAC CHEM™)( Honolulu, Hawaii, USA), 2015/12/15-20

- [25] Yamazaki A, Komura N, Suzuki K G N, **Ando H, Imamura A, Ishida H**, Kusumi A, **Kiso M**.  
“Synthesis of fluorescent analogs of lipid-modified ganglioside GM3 for elucidating the function of  
ganglioside in the lipid raft.”  
The 2015 International Chemical Congress of Pacific Basin Societies (PAC CHEM™)(Honolulu, Hawaii,  
USA), 2015/12/15-20

【Course of Agricultural and Environmental Science】

- [1] Hayami N, Saito T, Tokizawa M, Iuchi S, Kobayashi M, **Yamamoto YY**.  
“Prediction-Oriented Promoter Analysis of Arabidopsis ELIP2, a Stress-Activated Member of the LHC  
Superfamily, Revealed a Novel Transcriptional Regulatory Elements that Unites High Light, UV-B and  
Cold Stress Responses”  
2nd CRL International Forum ‘Tokyo Tech-HHU Düsseldorf Joint Symposium on Photosynthesis as a  
New Chemical Resource’(Tokyo), 2015/03/04
- [2] Hayami N, Sakai Y, Saito T, Kimura M, Tokizawa M, Nomoto M, Tada Y, Iuchi S, **Yamamoto YY**.  
“Prediction-oriented promoter analysis of Arabidopsis ELIP2 revealed novel transcriptional regulatory  
elements that unite UV-B, high light and cold stress response.”  
The 4th UGSAS-GU International Symposium(Gifu), 2015/08/27
- [3] Hieno A, Naznin MHA, **Hyakumachi M**, Sawaki K, Koyama H, Higuchi M, Hanada K, Matsui M,  
Tokizawa M, **Yamamoto YY**.  
“Microarray analysis of H2O2 responses and in silico prediction of the transcriptional regulatory elements”  
The 2nd International Symposium on Plant Environmental Sensing(Tokyo), 2015/03/13-15
- [4] Ikushima S, **Tadano R**, Nagai A, Moribe J, Matsuyama R, Kuninaga N, Morimoto T, Asano M, Suzuki M.  
“Genetic characteristics of Japanese wild boars on Mt. Kinka, Gifu Prefecture, Japan”  
The Vth International Wildlife Management Congress(Sapporo, Japan), 2015/07/26-30
- [5] Nakano Y, Kusunoki K, Iuchi S, Tokizawa M, **Yamamoto YY**, Kobayashi M, **Kobayashi Y**, **Koyama H**.  
“Adaptive strategies of Arabidopsis thaliana to acid soil environment.”  
The 4th UGSAS-GU International Symposium(Gifu), 2015/08/27
- [6] Nakayama F, **Ninomiya S**.  
“Tethering period effects on cattle jumping behaviour when released to the paddock”  
the 49th Congress of the International Society for Applied Ethology(Hokkaido Univ.), 2015/09/14-17
- [7] **Ninomiya S**, Higashi K, Moriyasu Y.  
“Grooming device use and effects on self and social grooming behaviour in fattening beef cattle”  
the 49th Congress of the International Society for Applied Ethology(Hokkaido Univ.), 2015/09/14-17
- [8] Nomoto M, Tsukagoshi H, Mori T, Suzuki T, Skelly M.J, Matsushita T, **Yamamoto YY**, Higashiyama T,  
Spoel S.H, Tada Y.  
“Reciprocal regulation between salicylate- and jasmonate-responsive transcription factors in plant  
immunity”  
International Congress on Arabidopsis Research (ICAR2015)(Paris), 2015/07/05-09
- [9] Nomoto M, Tsukagoshi H, Mori T, Suzuki T, Skelly M.J, Oka N, Matsushita T, Tokizawa M, **Yamamoto YY**, Higashiyama T, Spoel S.H, Tada Y.  
“Reciprocal regulation between salicylate- and jasmonate-responsive transcription factors in plant  
immunity”  
International ERATO Higashiyama Live-Holomics Symposium and Technical Workshop 2015  
“Organogenesis from Eggs to Mature Plants”(Nagoya), 2015/05/01
- [10] Ogita N, Okushima Y, Kurata T, Tokizawa M, **Yamamoto YY**, Takahashi N, Umeda M.  
“Analysis of direct target genes of SOG1, a key transcription factor involved in DNA damage response.”  
International Congress on Arabidopsis Research (ICAR2015)(Paris), 2015/07/05-09

- [11] Pham TH, **Miyagawa S.**  
“Historical Changes of Distribution Patterns of Tree in Paddy Field Landscapes in Northeast Thailand.”  
9th International Association for Landscape Ecology (IALE) World Congress(Portland), 2015/07/05-10
- [12] Shimabukuro U, Yamamoto S, **Kusuda S**, Hagino R, Ono K, Takahashi M, Tomita S, Ishizuka M, **Doi O.**  
“Seasonal changes in plasma steroid hormones and blood biochemistry associated with breeding and molting in captive northern rockhopper penguins *Eudyptes moseleyi*.”  
The Sixth Symposium on Polar Science(Tachikawa, Tokyo), 2015/11/16-19
- [13] **Tadano R**, Nagai A, Moribe J.  
“Regional-scale population structure of the Japanese wild boar (*Sus scrofa leucomystax*), as revealed by multilocus microsatellite analysis: a case study from Gifu Prefecture, central Japan”  
The Vth International Wildlife Management Congress(Sapporo, Japan), 2015/07/26-30
- [14] Tokizawa M, Enomoto T, **Kobayashi Y**, Tada Y, **Yamamoto YY**, **Koyama H.**  
“Transcriptional regulation of Aluminum tolerance genes by STOP1 transcription factor in *Arabidopsis thaliana*”  
The 9th International Symposium on Plant-Soil Interactions at Low pH(Dubrovnik, Croatia), 2015/10/18-23
- [15] Tokizawa M, **Kobayashi Y**, Saito T, Iuchi S, Kobayashi M, Nomoto M, Tada Y, **Yamamoto YY**, **Koyama H.**  
“Analysis of regulation of ALMT1 expression in response to Aluminum stress”  
The 2nd International Symposium on Plant Environmental Sensing(Tokyo), 2015/03/13-15
- [16] Vonny Indah Mutiara, **Arai Satoshi.**  
“Study on Organic Rice Marketing System in West Sumatra, Indonesia”  
the Agricultural Economics Sosiety of Japan Annual Meeting 2015(Fuchu City,Tokyo Japan), 2015/03/29
- [17] Vonny Indah Mutiara, **Arai Satoshi.**  
“Organic rice marketing channel and consumer perception on organic rice in West Sumatra, Indonesia”  
The Agricultural Marketing Sociiety of Japan indivivual presentation(Utsunomiya City JAPAN), 2015/06/28
- [18] Vonny Indah Mutiara, **Arai Satoshi.**  
“Development of Organic Rice Distribution Channel A Case Study in West Sumatra, Indonesia”  
The 4th UGSAS-GU Sympsium2015(Gifu University), 2015/08/26

## 2) Academic lecture

### 【Course of Applied Life Science】

- [1] **Ando H.**  
“Ganglioside synthesis for understanding interplays with membrane molecules.”  
2015 Glycoscience Symposium, Institute of Biological Chemistry(Academia Sinica, Taiwan), 2015/12/07-09 (Invitation lecture)
- [2] **Ando H.**  
“Ganglioside probes for exploring functional molecular complexes in the cell membrane.”  
The 2015 International Chemical Congress of Pacific Basin Societies (PAC CHEM™) (Honolulu, Hawaii, USA), 2015/12/15-20 (Invitation lecture)
- [3] **Nagaoka S.**  
“Cholesterol lowering peptides”  
ACN2015 (Yokohama), 2015/05/16 (Invitation lecture)

- [4] **Nakano K.**  
 “Current Status and Issues of the Qulaity Management System for Fresh Produes in Japan for Sustainable Agriculture”  
 Int. Conf. on Food, Agriculuren and Natural Resouce 2015 (FANRes2015) (Jember-Indonesia),  
 2015/08/01-02 (Invitation lecture)
- [5] **Nakano K.**  
 “Challenges in Effective Utilization of CO2 in Postharvest Technology for Sustainable Agriculture”  
 Int. Conf. on Sustainable, Agriculture, Food, and Energy (SAFE2015) (Ho Chi Minh City-Vietnam),  
 2015/11/17-18 (Invitation lecture)
- [6] **Teramoto Y.**  
 “Development of High-Performance Biomass-based Materials via Multi-Composition and Advanced Processing.”  
 Malaysia Polym. Int. Conf. 2015 (Malaysia), 2015/06/10 (Invitation lecture)
- [7] **Teramoto Y.**, Niwa S.  
 “Assessment of The Combination of Maleic Anhydride Grafted Polyolefin Compatibilizer in Wood / Plastic Composites.”  
 7th Int. Symp. Indones. Wood Res. Soc.(Indonesia), 2015/11/06 (Invitation lecture)
- [8] **Yabe T.**  
 “Physiological function of the dietary fiber for intestinal epithelial cells in human”  
 The 4th UGSAS-GU International Symposium 2015 (Gifu), 2015/08/26 (Invitation lecture)

#### 【Course of Agricultural and Environmental Science】

- [1] **Matsubara Y.**  
 “Bioregulation potential of AMF symbiosis on biotic and abiotic stresses in horticultural plants.”  
 International Conference on Agronomy and Horticulture.( China), 2015/08/25-27 (Invitation lecture)
- [2] **Yamamoto YY.**  
 “Semidry Analysis of plant promoters”  
 Indian Institute of Technology Guwahati (Guwahat, India), 2015/09/17 (Invitation lecture)
- [3] **Yamamoto YY.**  
 “Prediction-oriented promoter analysis to study environmental response of higher plants”  
 Bose Institute (Kolkata, India), 2015/09/21 (Invitation lecture)
- [4] **Yamamoto YY.**  
 “Prediction-oriented promoter analysis to study environmental response of higher plants”  
 Visva-Bharati University (Santiniketan, India), 2015/09/22 (Invitation lecture)
- [5] **Yamamoto YY.**  
 “Prediction-oriented promoter analysis to study environmental response of higher plants”  
 National Institute of Technology (Durgapur, India), 2015/09/23 (Invitation lecture)
- [6] **Yamamoto YY.**, Kusunoki K, Tokizawa M, Hieno A.  
 “ppdb: Plant Promoter Database”  
 The 1st GU-NAST International Joint Meeting (GU-NAST 2015) “Developing New Research Excellence in Natural Science and Technology” (Gifu), 2015/12/10-11 (Invitation lecture)

#### 【Joint Department of Veterinary Medicine】

- [1] Nagano H, **Matsuyama H**, **Saito S**, **Sakai H**, Jurgen W, Komori S, **Unno T**.  
 “M2 muscarinic receptor mediates arginine-vasopressin secretion in the mouse supraoptic nuclei.”  
 8th Federation Of The Asian and Oceanian Physiological Societies Congress(Bangkok, Thailand),  
 2015/12/22-25 (Invitation lecture)



Faculty of Applied Biological Sciences  
Gifu University

Annual Report of Research Activities 2015 Vol.12

---

November 14, 2016

Publisher      Faculty of Applied Biological Sciences  
                  Gifu University  
                  1-1 Yanagido, Gifu City 501-1193

Edit   Chairman : Mitsunaga T  
                  Commissioner : Imamura A, Hiramatsu K, Yamamoto A, Sakai H,  
                  Ohya K, Yabe T, Iwamoto S, Kawakubo N,  
                  Ito K, Arahata K, Nakae S  
                  Yamada S(the person in charge)

---