

2017年

- 1 A putative MYB35 ortholog is a candidate for the sex-determining genes in *Asparagus officinalis*.
Tsugama D., Matsuyama K., Ide M., Hayashi M., Fujino K., Masuda K.
Sci. Rep. 7 p.41497
DOI: 10.1038/srep41497
使用機器：共焦点レーザー顕微鏡 (Leica, TCS SP5)

- 2 Estrous cycle stage-dependent manner of type I interferon-stimulated genes induction in the bovine endometrium.
Shirozu T., Iwano H., Ogiso T., Suzuki T., Balboula A.Z., Bai H., Kawahara M., Kimura K., Takahashi H., Rulan B., Kim S.W., Yanagawa Y., Nagano M., Imakawa K., Takahashi M.
J. Reprod. Dev. 63(3) pp.211-220
DOI: 10.1262/jrd.2016-176
使用機器：共焦点レーザー顕微鏡 (Leica, TCS SP5) , 凍結マイクローム (Leica, CM 3050S)

- 3 Potency of cashew nut shell liquid in rumen modulation under different dietary conditions and indication of its surfactant action against rumen bacteria.
Oh S., Suzuki Y., Hayashi S., Suzuki Y., Koike S., Kobayashi Y.
J. Anim. Sci. Technol. 59 p.27
DOI: 10.1186/s40781-017-0150-8
使用機器：高分解能走査型電子顕微鏡 (JEOL, JSM-6301F) , 臨界点乾燥装置 (Hitach, HCP-2) , イオンスパッター (Hitachi, E101)

- 4 Myosin substitution rate is affected by the amount of cytosolic myosin in cultured muscle cells.
Ojima K., Ichimura E., Yasukawa Y., Oe M., Muroya S., Suzuki T., Wakamatsu J.I., Nishimura T.
Anim. Sci. J. 88(11) pp.1788-1793
DOI: 10.1111/asj.12826
使用機器：共焦点レーザー顕微鏡 (Leica, TCS SP5)

- 5 Isoflavones and their metabolites influence the milk component synthesis ability of mammary epithelial cells through prolactin/STAT5 signaling.

Tsugami Y., Matsunaga K., Suzuki T., Nishimura T., Kobayashi K.

Mol. Nutr. Food Res. 61(10) p.1700156

DOI: 10.1002/mnfr.201700156

使用機器：共焦点レーザー顕微鏡 (Leica, TCS SP5)

- 6 Distinct roles of prolactin, epidermal growth factor, and glucocorticoids in β -casein secretion pathway in lactating mammary epithelial cells.

Kobayashi K., Oyama S., Kuki C., Tsugami Y., Matsunaga K., Suzuki T., Nishimura T.

Mol. Cell. Endocrinol. 440 pp.16-24

DOI: 10.1016/j.mce.2016.11.006

使用機器：共焦点レーザー顕微鏡 (Leica, TCS SP5)

- 7 Phytoestrogens Weaken the Blood-Milk Barrier in Lactating Mammary Epithelial Cells by Affecting Tight Junctions and Cell Viability.

Tsugami Y., Matsunaga K., Suzuki T., Nishimura T., Kobayashi K.

J. Agric. Food Chem. 65(50) pp.11118-11124

DOI: 10.1021/acs.jafc.7b04786

使用機器：共焦点レーザー顕微鏡 (Leica, TCS SP5)

- 8 Analysis of Oxygen Transport Resistance Components and Water Transport Phenomena with Hydrophilic and Hydrophobic MPL in PEFC.

Nozaki R., Tabe Y., Chikahisa T., Tamura T.

ECS Trans. 80(8) pp.335-344

DOI: 10.1149/08008.0335ecst

使用機器：クライオ高分解能走査型電子顕微鏡 (JEOL, JSM-6701F/ALTO2500)

- 9 Rapid cultivation of free-living planktonic anammox cells.

Zhang L., Okabe S.

Water Res. 127 pp.204-210

DOI: 10.1016/j.watres.2017.10.029

使用機器：クライオ高分解能走査型電子顕微鏡 (JEOL, JSM-6701F/ALTO2500) , 高分解能走査型電子顕微鏡 (JEOL, JSM-6301F)

- 10 Intercellular translocation of molecules via plasmodesmata in the multiseriate filamentous brown alga, *Halopteris congesta* (Sphacelariales, Phaeophyceae).
Nagasato C., Tanaka A., Ito T., Katsaros C., Motomura T.
J. Phycol. 53(2) pp.333-341
DOI: 10.1111/jpy.12498
使用機器：高圧凍結装置 (Leica, EM PACT2)
- 11 Branch regeneration induced by sever damage in the brown alga *Dictyota dichotoma* (dictyotales, phaeophyceae).
Tanaka A., Hoshino Y., Nagasato C., Motomura T.
Protoplasma 254(3) pp.1341-1351
DOI: 10.1007/s00709-016-1025-4
使用機器：高圧凍結装置 (Leica, EM PACT2)

2016年

- 1 Characterization of a novel negevirus isolated from *Aedes* larvae collected in a subarctic region of Japan.
Kawakami K., Kurnia Y.W., Fujita R., Ito T., Isawa H., Asano S., Binh N.D., Bando H.
Arch. Virol. 161(4) pp.801-809
DOI: 10.1007/s00705-015-2711-9
使用機器：透過型電子顕微鏡 (Hitachi H-800)
- 2 Effect of epicuticular wax crystals on the localization of artificially deposited sub-micron carbon-based aerosols on needles of *Cryptomeria japonica*.
Nakaba S., Yamane K., Fukahori M., Nugroho W.D., Yamaguchi M., Kuroda K., Sano Y., Wuled Lenggoro I., Izuta T., Funada R.
J. Plant Res. 129(5) pp.873-881
DOI: 10.1007/s10265-016-0839-7
使用機器：高分解能走査型電子顕微鏡 (JEOL, JSM-6301F)

- 3 Conserved roles of fibroblast growth factor receptor 2 signaling in the regulation of inner cell mass development in bovine blastocysts.
Akizawa H., Nagatomo H., Odagiri H., Kohri N., Yamauchi N., Yanagawa Y., Nagano M., Takahashi M., Kawahara M.
Mol. Reprod. Dev. 83(6) pp.516-525
DOI: 10.1002/mrd.22646
使用機器：共焦点レーザー顕微鏡 (Leica, TCS SP5)
- 4 Prolactin and glucocorticoid signaling induces lactation-specific tight junctions concurrent with β -casein expression in mammary epithelial cells.
Kobayashi K., Tsugami Y., Matsunaga K., Oyama S., Kuki C., Kumura H.
Biochim. Biophys. Acta. 1863(8) pp.2006-2016
DOI: 10.1016/j.bbamcr.2016.04.023
使用機器：共焦点レーザー顕微鏡 (Leica, TCS SP5)
- 5 Characterization of Toll-Like Receptor 9 expression during mouse preimplantation development.
Sasaki K., Tanaka A., Nagatomo H., Ogawa H., Kobayashi K., Takahashi M., and Kawahara M.
J. Genit. Syst. Disor. 5(1)
DOI: 10.4172/2325-9728.1000145
使用機器：共焦点レーザー顕微鏡 (Leica, TCS SP5)
- 6 Pro-inflammatory cytokine TNF- α is a key inhibitory factor for lactose synthesis pathway in lactating mammary epithelial cells.
Kobayashi K., Kuki C., Oyama S., Kumura H.
Exp. Cell Res. 340(2) pp.295-304
DOI: 10.1016/j.yexcr.2015.10.030
使用機器：共焦点レーザー顕微鏡 (Leica, TCS SP5)
- 7 Distribution of alginate and cellulose and regulatory role of calcium in the cell wall of the brown alga *Ectocarpus siliculosus* (Ectocarpales, Phaeophyceae).
Terauchi M., Nagasato C., Inoue A., Ito T., Motomura T.
Planta 244(2) pp.361-377
DOI: 10.1007/s00425-016-2516-4

使用機器：300kV電界放射型透過型電子顕微鏡（JEOL, JEM-3200FS），200kV透過型電子顕微鏡（JEOL, JEM-2100）

- 8 Three-dimensional organization of flagellar basal apparatus in *Ectocarpus* gametes.
Kinoshita N., Fu G., Ito T., Motomura T.
Phycol. Res. 64(1) pp.19-25
DOI: 10.1111/pre.12115
使用機器：200kV透過型電子顕微鏡（JEOL, JEM-2100）
- 9 Preparation of electric double layer capacitors (EDLCs) from two types of electrospun lignin fibers.
You X., Duan J., Koda K., Yamada T., Uraki Y.
Holzforschung 70(7) pp.661-671
DOI: 10.1515/hf-2015-0175
使用機器：高分解能走査型電子顕微鏡（JEOL, JSM-6301F）

2015年

- 1 Taxonomic reappraisal of *Typhula variabilis*, *Typhula laschii*, *Typhula intermedia*, and *Typhula japonica*.
Ikeda S., Hoshino T., Matsumoto N., Kondo N.
Mycoscience 56(5) pp.549-559
DOI: 10.1016/j.myc.2015.05.002
使用機器：200kV透過型電子顕微鏡（JEOL, JEM-2100），低真空走査型電子顕微鏡（JEOL, JSM-5310LV），ウルトラマイクローム（Reichert-Nissei, ULTRACUT N）
- 2 Dynamics of myosin replacement in skeletal muscle cells.
Ojima K., Ichimura E., Yasukawa Y., Wakamatsu J., Nishimura T.
Am. J. Physiol., Cell Physiol. 309 pp.C669-C679
DOI: 10.1152/ajpcell.00170.2015
使用機器：共焦点レーザー顕微鏡（Leica, TCS SP5）

- 3 Comparative study of muscle regeneration following cardiotoxin and glycerol injury.
Mahdy M.A., Lei H.Y., Wakamatsu J., Hosaka Y.Z., Nishimura T.
Ann. Anat. 202 pp.18-27
DOI: 10.1016/j.aanat.2015.07.002
使用機器：高分解能走査型電子顕微鏡（Hitachi, S-800），t-ブタノール凍結乾燥器（Eiko, ID-2），イオンスパッター（Hitachi, E101）
- 4 Role of Heavy Meromyosin in Heat-Induced Gelation in Low Ionic Strength Solution Containing l-Histidine.
Hayakawa T., Yoshida Y., Yasui M., Ito T., Wakamatsu J., Hattori A., Nishimura T.
J. Food Sci. 80(8) pp.C1641-1645
DOI: 10.1111/1750-3841.12958
使用機器：透過型電子顕微鏡（Hitachi, H-800），凍結割断レプリカ装置（JEOL, JFD-9010）
- 5 Early down-regulation of milk production after weaning by pup removal and prior to involution in mouse mammary glands.
Uejyo T., Kuki C., Oyama S., Kumura H., Kobayashi K.
Cell Tissue Res. 359(2) pp.643-653
DOI: 10.1007/s00441-014-2013-7
使用機器：共焦点レーザー顕微鏡（Leica, TCS SP5），凍結マイクロトーム（Leica, CM-3050S）
- 6 A Single-Nucleotide Polymorphism in an Endo-1,4-β-Glucanase Gene Controls Seed Coat Permeability in Soybean.
Jang S.J., Sato M., Sato K., Jitsuyama Y., Fujino K., Mori H., Takahashi R., Benitez E.R., Liu B., Yamada T., Abe J.
PLoS One 10(6) p.e0128527
DOI: 10.1371/journal.pone.0128527
使用機器：低真空走査型電子顕微鏡（JEOL, JSM-5310LV），臨界点乾燥装置（Hitach, HCP-2），イオンスパッター（Hitachi, E101）
- 7 UDP-D-galactose synthesis by UDP-glucose 4-epimerase 4 is required for organization of the trans-Golgi network/early endosome in Arabidopsis thaliana root epidermal cells.
Wang S., Ito T., Uehara M., Naito S., Takano J.
J. Plant Res. 128(5) pp.863-873

DOI: 10.1007/s10265-015-0737-4

使用機器：300kV電界放射型透過型電子顕微鏡（JEOL, JEM-3200FS），200kV透過型電子顕微鏡（JEOL, JEM-2100），ウルトラマイクローム（Reichert-Nissei, ULTRACUT N），イオンスパッター（Hitachi, E101）

- 8 Dehydrogenative Polymerization of Coniferyl Alcohol in Artificial Polysaccharides Matrices: Effects of Xylan on the Polymerization.

Li Q., Koda K., Yoshinaga A., Takabe K., Shimomura M., Hirai Y., Tamai Y., Uraki Y.

J. Agric. Food Chem. 63(18) pp.4613-4620

DOI: 10.1021/acs.jafc.5b01070

使用機器：高分解能走査型電子顕微鏡（JEOL, JSM-6301F），イオンスパッター（Hitachi, E101）

2014年

- 1 Stimulatory effect of Brazilian propolis on hair growth through proliferation of keratinocytes in mice.

Miyata S., Oda Y., Matsuo C., Kumura H., Kobayashi K.

J. Agric. Food Chem. 62(49) pp.11854-11861

DOI: 10.1021/jf503184s

使用機器：共焦点レーザー顕微鏡（Leica, TCS SP5）

- 2 Identification and characterization of an Arabidopsis mutant with altered localization of NIP5;1, a plasma membrane boric acid channel, reveals the requirement for D-galactose in endomembrane organization.

Uehara M., Wang S., Kamiya T., Shigenobu S., Yamaguchi K., Fujiwara T., Naito S., Takano J.

Plant Cell Physiol. 55(4) pp.704-714

DOI: 10.1093/pcp/pct191

使用機器：共焦点レーザー顕微鏡（Leica, TCS SP5）

- 3 Localization of *Daucus carota* NMCP1 to the nuclear periphery: the role of the N-terminal region and an NLS-linked sequence motif, RYNLRR, in the tail domain.

Kimura Y., Fujino K., Ogawa K., Masuda K.

Front. Plant Sci. 5 p.62

DOI: 10.3389/fpls.2014.00062

使用機器：共焦点レーザー顕微鏡 (Leica, TCS SP5)

- 4 Fractography of shear failure surface of softwood decayed by brown-rot-fungus.
Takanashi R., Ishihara W., Sawata K., Sano Y., Azuma T., Mori M., Koizumi A., Sasaki Y., Hirai T.
J. Wood Sci. 60(3) pp.186-193
DOI: 10.1007/s10086-014-1393-3
使用機器：高分解能走査型電子顕微鏡 (JEOL, JSM-6301F)
- 5 Consideration of the reasons why dormant buds of trees have evolved extraorgan freezing as an adaptation for winter survival.
Endoh K., Kuwabara C., Arakawa K., Fujikawa S.
Environ. Exp. Bot. 106 pp.52-59
DOI: 10.1016/j.envexpbot.2014.0
使用機器：クライオ高分解能走査型電子顕微鏡 (JEOL, JSM-6701F/ALTO2500) , クライオ走査型電子顕微鏡 (JEOL, JSM-840A)

2013年

- 1 Underlying mechanisms involved in the decrease of milk secretion during Escherichia coli endotoxin induced mastitis in lactating mice.
Kobayashi K., Oyama S., Uejyo T., Kuki C., Rahman M.M., Kumura H.
Vet. Res. 44(1) p.119
DOI: 10.1186/1297-9716-44-119
使用機器：共焦点レーザー顕微鏡 (Leica, TCS SP5) , 凍結マイクローム (Leica, CM-3050S)
- 2 Histological analysis of mammary gland remodeling caused by lipopolysaccharide in lactating mice.
Kobayashi K., Uejyo T., Oyama S., Rahman M.M., Kumura H.
Cell Tissue Res. 354(2) pp.495-506
DOI: 10.1007/s00441-013-1688-5
使用機器：共焦点レーザー顕微鏡 (Leica, TCS SP5) , 凍結マイクローム (Leica, CM-3050S)

- 3 Lipopolysaccharide disrupts the milk-blood barrier by modulating claudins in mammary alveolar tight junctions.
Kobayashi K., Oyama S., Numata A., Rahman M.M., Kumura H.
PLoS One 8(4) p.e62187
DOI: 10.1371/journal.pone.0062187
使用機器：共焦点レーザー顕微鏡 (Leica, TCS SP5)

- 4 Roles of cell walls and intracellular contents in supercooling capability of xylem parenchyma cells of boreal trees.
Kasuga J., Endoh K., Yoshida M., Taido I., Arakawa K., Uemura M., Fujikawa S.
Physiol. Plant. 148(1) pp.25-35
DOI: 10.1111/j.1399-3054.2012.01678.x
使用機器：クライオ走査型電子顕微鏡 (JEOL, JSM-840A)

- 5 Ultrastructural analysis of flagellar development in plurilocular sporangia of *Ectocarpus siliculosus* (Phaeophyceae).
Fu G., Nagasato C., Ito T., Müller D.G., Motomura T.
Protoplasma 250(1) pp.261-272
DOI: 10.1007/s00709-012-0405-7
使用機器：200kV透過型電子顕微鏡 (JEOL, JEM-2100)