

## 2020年

- 1 A GDSL-type esterase/lipase gene, GELP77, is necessary for pollen dissociation and fertility in Arabidopsis.  
Tsugama D., Fujino K., Liu S., Takano T.  
Biochem. Biophys. Res. Commun. 526(4) pp.1036-1041  
DOI: 10.1016/j.bbrc.2020.03.179  
使用機器：低真空走査型電子顕微鏡（JEOL, JSM-5310LV），イオンスパッター（Hitachi, E101）
  
- 2 Dynamic status of lysosomal cathepsin in bovine oocytes and preimplantation embryos.  
Li J., Maeji M., Balboula A.Z., Aboelenain M., Fujii T., Moriyasu S., Bai H., Kawahara M., Takahashi M.  
J. Reprod. Dev. 66(1) pp.9-17  
DOI: 10.1262/jrd.2019-115  
使用機器：共焦点レーザー顕微鏡（Leica, TCS SP5）
  
- 3 Adverse Effects of Coumestrol and Genistein on Mammary Morphogenesis and Future Milk Production Ability of Mammary Epithelial Cells.  
Kumai A., Tsugami Y., Wakasa H., Suzuki N., Suzuki T., Nishimura T., Kobayashi K.  
Adv. Biosyst. 4(4) p.e1900187  
DOI: 10.1002/adbi.201900187  
使用機器：共焦点レーザー顕微鏡（Leica, TCS SP5）
  
- 4 Establishment of an in vitro culture model to study milk production and the blood-milk barrier with bovine mammary epithelial cells.  
Tsugami Y., Suzuki N., Kawahara M., Suzuki T., Nishimura T., Kobayashi K.  
Anim. Sci. J. 91(1) p.e13355  
DOI: 10.1111/asj.13355  
使用機器：共焦点レーザー顕微鏡（Leica, TCS SP5）
  
- 5 Nicotine directly affects milk production in lactating mammary epithelial cells concurrently with inactivation of STAT5 and glucocorticoid receptor in vitro.

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

Toxicol. In Vitro 63 p.104741

DOI: 10.1016/j.tiv.2019.104741

使用機器：共焦点レーザー顕微鏡（Leica, TCS SP5）

- 6 Effect of temperature on the hydrolysis of levan treated with compressed hot water fluids.

Shimizu N., Abea A., Ushiyama T., Toksoy Öner E.

Food Sci. Nutr. 8(4) pp.2004-2014

DOI:10.1002/fsn3.1488

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）

- 7 Cryo-scanning electron microscopy reveals that supercooling of overwintering buds of freezing-resistant interspecific hybrid grape 'Yamasachi' is accompanied by partial dehydration.

Kasuga J., Tsumura Y., Kondoh Daisuke., Jitsuyama Y., Horiuchi R., Arakawa K.

J. Plant Physiol. 253 p.153248

DOI: 10.1016/j.jplph.2020.153248

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

- 8 Cellulose acetate with CTA I polymorph can be defibrated into nanofibers to produce a highly transparent nanopaper.

Taira S., Tsuruhara M., Saito R., Koda K., Uraki Y., Konno H., Shimamoto S.

Cellulose 27(9) pp.4991-5001

DOI: 10.1007/s10570-020-03156-z

使用機器：透過型電子顕微鏡（JEOL, JEM-2100）

- 9 Preparation of kraft lignin-based activated carbon fiber electrodes for electric double layer capacitors using an ionic liquid electrolyte.

Pakkang N., Kumar M., Taira S., Koda K., Shigetomi K., Uraki Y.

Holzforchung 74(6) pp.577-588

DOI: 10.1515/hf-2019-0291

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）

- 10 Three-dimensional visualization of mitochondria in conidia of *Pyricularia oryzae* using green fluorescent protein (GFP) fused with citrate synthase (*CitA*).  
Syib'li M.A., Kodama A., Abe A., Sone T.  
J. Gen. Plant Pathol. 86(4) pp.250-256  
DOI: 10.1007/s10327-020-00928-0  
使用機器：共焦点レーザー顕微鏡（Leica, TCS SP8 STED 3X）
  
- 11 Yes-associated protein 1 translocation through actin cytoskeleton organization in trophoctoderm cells.  
Yamamura S., Goda N., Akizawa H., Kohri N., Balboula, A.Z., Kobayashi K., Bai H., Takahashi M., Kawahara M.  
Dev. Biol. 468(1-2) pp.14-25  
DOI: 10.1016/j.ydbio.2020.09.004  
使用機器：共焦点レーザー顕微鏡（Leica, TCS SP5）
  
- 12 Menthol from *Mentha piperita* Suppresses the Milk Production of Lactating Mammary Epithelial Cells In Vivo and In Vitro.  
Suzuki N., Tsugami Y., Wakasa H., Suzuki T., Nishimura T., Kobayashi K.  
Mol. Nutr. Food Res. 14 p.e2000853  
DOI: 10.1002/mnfr.202000853  
使用機器：共焦点レーザー顕微鏡（Leica, TCS SP5）
  
- 13 Distinct Expression Patterns of Fibrillar Collagen Types I, III, and V in Association with Mammary Gland Remodeling during Pregnancy, Lactation and Weaning.  
Tsutsui S., Wakasa H., Tsugami Y., Suzuki T., Nishimura T., Kobayashi K.  
J. Mammary Gland Biol. Neoplasia 25 pp.219-232  
DOI: 10.1007/s10911-020-09457-0  
使用機器：共焦点レーザー顕微鏡（Leica, TCS SP5）
  
- 14 Distinct expression patterns of aquaporin 3 and 5 in ductal and alveolar epithelial cells in mouse mammary glands before and after parturition.

Kaihoko Y., Tsugami Y., Suzuki N., Suzuki T., Nishimura T., Kobayashi K.

Cell Tissue Res. 380 pp.513-526

DOI: 10.1007/s00441-020-03168-y

使用機器：共焦点レーザー顕微鏡 (Leica, TCS SP5)

- 15 Regulatory Effects of Soy Isoflavones and Their Metabolites in Milk Production via Different Ways in Mice.

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

J. Agric. Food Chem. 68 pp.5847-5853

DOI: 10.1021/acs.jafc.0c01288

使用機器：共焦点レーザー顕微鏡 (Leica, TCS SP5)

- 16 Vitriification-induced activation of lysosomal cathepsin B perturbs spindle assembly checkpoint function in mouse oocytes.

Balboula A.Z., Schindler K., Kotani T., Kawahara M., Takahashi M.

Mol. Hum. Reprod. 26(9) pp.689-701

DOI: 10.1093/molehr/gaaa051

使用機器：共焦点レーザー顕微鏡 (Leica, TCS SP5)

- 17 The role of RHOA signaling in trophectoderm cell-fate decision in cattle.

Kohri N., Akizawa H., Iisaka S., Bai H., Takahashi M., Kawahara M.

Biochem. Biophys. Res. Commun. 528(4) pp.713-718

DOI: 10.1016/j.bbrc.2020.05.210

使用機器：共焦点レーザー顕微鏡 (Leica, TCS SP5)

- 18 A revision of *Strigiphilus* (Insecta: Phthiraptera: Philopteridae) from Japan.

Shimada M., Yoshizawa K.

Zootaxa 4779(4) pp.501-521

DOI: 10.11646/zootaxa.4779.4.3

使用機器：共焦点レーザー顕微鏡 (Leica, TCS SP5)

- 19 Ultrastructure and Systematics of Two New Species of Dinoflagellate, *Paragymnodinium Asymmetricum* sp. nov. and *Paragymnodinium Inerme* sp. nov. (Gymnodiniales, Dinophyceae) (1)  
Yokouchi K., Takahashi K., Nguyen V.N., Iwataki M., Horiguchi T.  
J. Phycol. 56(3) pp.730-746  
DOI: [doi.org/10.1111/jpy.12981](https://doi.org/10.1111/jpy.12981)  
使用機器：臨界点乾燥装置 (Leica, EM CPD300)