

生体情報研究センター

センター長	石	井	聡
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技術系スタッフ	栗	林	栄 里 佳

著 書

- 1) 阿部史人, 中西広樹, 田川博之, 佐々木雄彦 (2017) がんにおけるホスホイノシタイド代謝. 実験医学増刊 Vol. 35, No. 10, 94-97.

原 著 論 文

A. 審査を経た論文

- 1) Lin, S.-H., Steinhoff, M., Ikoma, A., Chang, Y.-C., Cheng, Y.-R., Kopparaju, R.C., Ishii, S., Sun, W.-H. and Chen, C.-C. (2017) Involvement of TRPV1 and TDAG8 in pruriception associated with noxious acidosis. *J. Invest. Dermatol.*, **137**, 170-178.
- 2) Abe, F., Kitadate, A., Ikeda, S., Yamashita, J., Nakanishi, H., Takahashi, N., Asaka, C., Teshima, K., Miyagaki, T., Sugaya, M. and Tagawa, H. (2017) Histone deacetylase inhibitors inhibit metastasis by restoring a tumor suppressive microRNA-150 in advanced cutaneous T-cell lymphoma. *Oncotarget*, **8**, 7572-7585.
- 3) Kimura, H., Eguchi, S., Sasaki, J., Kuba, K., Nakanishi, H., Takasuga, S., Yamazaki, M., Goto, A., Watanabe, H., Itoh, H., Imai, Y., Suzuki, A., Mizushima, N. and Sasaki, T. (2017) Vps34 regulates myofibril proteostasis to prevent hypertrophic cardiomyopathy. *JCI Insight*, **1**, e89462.
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- 6) Nakagawa, Y.-Y., Hara, H., Nakanishi, H., Tasaka, T. and Hara, A. (2017) Acute exposure to an electric field induces changes in human plasma lysophosphatidylcholine (lysoPC)-22 : 4 levels : Molecular insight into the docking of lysoPC-22 : 4 interaction with TRPV2. *Integr. Mol. Med.*, **2**, 1-7.
- 7) Shindou, H., Koso, H., Sasaki, J., Nakanishi, H., Sagara, H., Nakagawa, K.M., Takahashi, Y., Hishikawa, D., Iizuka, Y.-H., Tokumasu, F., Noguchi, H., Watanabe, S., Sasaki, T. and Shimizu, T. (2017) Docosahexaenoic acid preserves visual function by maintaining correct disc morphology in retinal photoreceptor cells. *J. Biol. Chem.*, **292**, 12054-12064.
- 8) Iizuka, Y.-H., Hishikawa, D., Sasaki, J., Takubo, K., Goto, M., Nagata, K., Nakanishi, H., Shindou,

- H., Okamura, T., Ito, C., Toshimori, K., Sasaki, T. and Shimizu, T. (2017) Lysophosphatidic acid acyltransferase 3 tunes the membrane status of germ cells by incorporating docosa-hexaenoic acid during spermatogenesis. *J. Biol. Chem.*, **292**, 12065-12076.
- 9) Takara, K., Eino, D., Ando, K., Yasuda, D., Naito, H., Tsukada, Y., Iba, T., Wakabayashi, T., Muramatsu, F., Kidoya, H., Fukuhara, S., Mochizuki, N., Ishii, S., Kishima, H. and Takakura, N. (2017) Lysophosphatidic acid receptor 4 activation augments drug delivery in tumors by tightening endothelial cell-cell contact. *Cell Rep.*, **20**, 2072-2086.
- 10) Kimura, H., Matsuyama, Y., Araki, S., Koizumi, A., Kariya, Y., Takasuga, S., Eguchi, S., Nakanishi, H., Sasaki, J. and Sasaki, T. (2017) The effect and possible clinical efficacy of in vivo inhibition of neutrophil extracellular traps by blockade of PI3K-gamma on the pathogenesis of microscopic polyangiitis. *Mod. Rheumatol.*, **7**, 1-12.
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- 12) Tanishima, M., Takashima, S., Honda, A., Yasuda, D., Tanikawa, T., Ishii, S. and Maruyama, T. (2017) Identification of optineurin as an interleukin-1 receptor-associated kinase 1-binding protein and its role in regulation of MyD88-dependent signaling. *J. Biol. Chem.*, **292**, 17250-17257.
- 13) Malek, M., Kielkowska, A., Chessa, T., Anderson, K., Barneda, D., Pir, P., Nakanishi, H., Eguchi, S., Koizumi, A., Sasaki, J., Juvin, V., Kiselev, V.,

Niewczas, I., Gray, A., Valayer, A., Spensberger, D., Imbert, M., Felisbino, S., Habuchi, T., Beinke, S., Cosulich, S., Novere, N., Sasaki, T., Clark, J., Hawkins, P. and Stephens, L. (2017) PTEN regulates PI (3,4) P2 signaling downstream of class I PI3K. *Molecular Cell*, **68**, 566-580.

学 会 発 表

A. 国際会議

1. FASEB Summer Research Conferences; Lysophospholipid and Related Mediators: From Bench to Clinic, August, New Orleans, USA
 - 1) Yasuda, D. and Ishii, S. (2017) Gα12/13-coupled LPA receptors mediate novel angiogenesis mechanism

B. 国内会議

(c) 研究会 (ii) 地方規模

1. 第3回生体調節研究所内分泌代謝シンポジウム, 11月, 群馬
 - 1) 安田大恭, 石井 聡 (2017) 血管新生に働くリゾホスファチジン酸シグナルの分子機構

そ の 他

1. Thermo Fisher Scientific 主催 質量分析フォーラム, 7月, 東京, 大阪
 - 1) 中西広樹 (2017) 医療応用を見据えた Lipidomics 解析法の構築
2. 第510-514回東北大学大学院薬学研究科セミナー, 薬物送達学分野主催講演会 質量分析東北セミナー, 8月, 仙台
 - 1) 中西広樹 (2017) 質量分析からわかってきたリン脂質の機能と疾患とのかかわり
3. 日本ウォーターズ株式会社主催 MS フォーラム—ライフサイエンス, 10月, 大阪, 東京
 - 1) 中西広樹 (2017) 病態関連リポドミクス解析の基礎から臨床応用まで