

## 2018年のゲノム医学研究センターにおける主な研究成果

1. Cui, W., Yoneda, R., Ueda, N., and Kurokawa, R. (2018). Arginine methylation of translocated in liposarcoma (TLS) inhibits its binding to long noncoding RNA, abrogating TLS-mediated repression of CBP/p300 activity. *J Biol Chem* 293, 10937-10948.
2. Kondo, K., Mashima, T., Oyoshi, T., Yagi, R., Kurokawa, R., Kobayashi, N., Nagata, T., and Katahira, M. (2018). Plastic roles of phenylalanine and tyrosine residues of TLS/FUS in complex formation with the G-quadruplexes of telomeric DNA and TERRA. *Sci Rep* 8, 2864.
3. Takayama, K.I., Suzuki, T., Fujimura, T., Takahashi, S., and Inoue, S. (2018). COBLL1 modulates cell morphology and facilitates androgen receptor genomic binding in advanced prostate cancer. *Proc Natl Acad Sci U S A* 115, 4975-4980.
4. Takayama, K.I., Suzuki, T., Tanaka, T., Fujimura, T., Takahashi, S., Urano, T., Ikeda, K., and Inoue, S. (2018). TRIM25 enhances cell growth and cell survival by modulating p53 signals via interaction with G3BP2 in prostate cancer. *Oncogene* 37, 2165-2180.
5. Sato, W., Ikeda, K., Urano, T., Abe, Y., Nakasato, N., Horie-Inoue, K., Takeda, S., and Inoue, S. (2018). Efp promotes in vitro and in vivo growth of endometrial cancer cells along with the activation of nuclear factor-kappaB signaling. *PLoS One* 13, e0208351.
6. Miyazaki, T., Ikeda, K., Sato, W., Horie-Inoue, K., and Inoue, S. (2018). Extracellular vesicle-mediated EBAG9 transfer from cancer cells to tumor microenvironment promotes immune escape and tumor progression. *Oncogenesis* 7, 7.
7. Hirasaki, M., Ueda, A., Asaka, M.N., Uranishi, K., Suzuki, A., Kohda, M., Mizuno, Y., Okazaki, Y., Nishimoto, M., Sharif, J., Koseki H., Okuda, A. (2018). Identification of the Coiled-Coil Domain as an Essential Methyl-CpG-Binding Domain Protein 3 Element for Preserving Lineage Commitment Potential of Embryonic Stem Cells. *Stem Cells* 36, 1355-1367.
8. Fukuda, K., Okuda, A., Yusa, K., and Shinkai, Y. (2018). A CRISPR knockout screen identifies SETDB1-target retroelement silencing factors in embryonic stem cells. *Genome Res* 28, 846-858.
9. Katagiri, T., Tsukamoto, S., Nakachi, Y., and Kuratani, M. (2018). Discovery of Heterotopic Bone-Inducing Activity in Hard Tissues and the TGF-beta Superfamily. *Int J Mol Sci* 19.
10. Machiya, A., Tsukamoto, S., Ohte, S., Kuratani, M., Fujimoto, M., Kumagai, K., Osawa, K., Suda, N., Bullock, A.N., and Katagiri, T. (2018). Effects of FKBP12 and type II BMP receptors on signal transduction by ALK2 activating mutations associated with genetic disorders. *Bone* 111, 101-108.