

## 2016年のゲノム医学研究センターにおける主な研究業績

1. Kohda, M., Y. Tokuzawa, Y. Kishita, H. Nyuzuki, Y. Moriyama, Y. Mizuno, T. Hirata, Y. Yatsuka, Y. Yamashita-Sugahara, Y. Nakachi, H. Kato, A. Okuda, S. Tamaru, N.N. Borna, K. Banshoya, T. Aigaki, Y. Sato-Miyata, K. Ohnuma, T. Suzuki, A. Nagao, H. Maehata, F. Matsuda, K. Higasa, M. Nagasaki, J. Yasuda, M. Yamamoto, T. Fushimi, M. Shimura, K. Kaiho-Ichimoto, H. Harashima, T. Yamazaki, M. Mori, K. Murayama, A. Ohtake, and Y. Okazaki. 2016. A Comprehensive Genomic Analysis Reveals the Genetic Landscape of Mitochondrial Respiratory Chain Complex Deficiencies. *PLoS Genet* 12: e1005679.
2. Katagiri, T. 2016. A Door Opens for Fibrodysplasia Ossificans Progressiva. *Trends Biochem Sci* 41:119-121.
3. Iseki, H., Y. Nakachi, T. Hishida, Y. Yamashita-Sugahara, M. Hirasaki, A. Ueda, Y. Tanimoto, S. Iijima, F. Sugiyama, K. Yagami, S. Takahashi, A. Okuda, and Y. Okazaki. 2016. Combined Overexpression of JARID2, PRDM14, ESRRB, and SALL4A Dramatically Improves Efficiency and Kinetics of Reprogramming to Induced Pluripotent Stem Cells. *Stem Cells* 34: 322-333.
4. Suzuki, A., M. Hirasaki, T. Hishida, J. Wu, D. Okamura, A. Ueda, M. Nishimoto, Y. Nakachi, Y. Mizuno, Y. Okazaki, Y. Matsui, J.C. Izpisua Belmonte, and A. Okuda. 2016. Loss of MAX results in meiotic entry in mouse embryonic and germline stem cells. *Nat Commun* 7: 11056.
5. Katagiri, T., and T. Watabe. 2016. Bone Morphogenetic Proteins. *Cold Spring Harb Perspect Biol* 8: a021899.
6. Kopajtich, R., K. Murayama, A.R. Janecke, T.B. Haack, M. Breuer, A.S. Knisely, I. Harting, T. Ohashi, Y. Okazaki, D. Watanabe, Y. Tokuzawa, U. Kotzaeridou, S. Kolker, S. Sauer, M. Carl, S. Straub, A. Entenmann, E. Gizewski, R.G. Feichtinger, J.A. Mayr, K. Lackner, T.M. Strom, T. Meitinger, T. Muller, A. Ohtake, G.F. Hoffmann, H. Prokisch, and C. Stauffer. 2016. Biallelic IARS Mutations Cause Growth Retardation with Prenatal Onset, Intellectual Disability, Muscular Hypotonia, and Infantile Hepatopathy. *Am J Hum Genet* 99: 414-422.
7. Huang, L., H. Zhang, C.Y. Cheng, F. Wen, P.O. Tam, P. Zhao, H. Chen, Z. Li, L. Chen, Z. Tai, K. Yamashiro, S. Deng, X. Zhu, W. Chen, L. Cai, F. Lu, Y. Li, C.M. Cheung, Y. Shi, M. Miyake, Y. Lin, B. Gong, X. Liu, K.S. Sim, J. Yang, K. Mori, X. Zhang, P.D. Cackett, M. Tsujikawa, K. Nishida, F. Hao, S. Ma, H. Lin, J. Cheng, P. Fei, T.Y. Lai, S. Tang, A. Laude, S. Inoue, I.Y. Yeo, Y. Sakurada, Y. Zhou, H. Iijima, S. Honda, C. Lei, L. Zhang, H. Zheng, D. Jiang, X. Zhu, T.Y. Wong, C.C. Khor, C.P. Pang, N. Yoshimura, and Z. Yang. 2016. A missense variant in FGD6 confers increased risk of polypoidal choroidal vasculopathy. *Nat Genet* 48: 640-647.
8. Yamashita-Sugahara, Y., M. Matsumoto, M. Ohtaka, K. Nishimura, M. Nakanishi, K. Mitani, and Y. Okazaki. 2016. An inhibitor of fibroblast growth factor receptor-1 (FGFR1) promotes late-stage terminal differentiation from NGN3+ pancreatic endocrine progenitors. *Sci Rep* 6: 35908.
9. Aihara, H., T. Nakagawa, H. Mizusaki, M. Yoneda, M. Kato, M. Doiguchi, Y. Imamura, M. Higashi, T. Ikura, T. Hayashi, Y. Kodama, M. Oki, T. Nakayama, E. Cheung, H. Aburatani, K.I. Takayama, H. Koseki, S. Inoue, Y. Takeshima, and T. Ito. 2016. Histone H2A T120 Phosphorylation Promotes Oncogenic Transformation via Upregulation of Cyclin D1. *Mol Cell* 64: 176-188.
10. Misawa, A., K. Takayama, T. Urano, and S. Inoue. 2016. Androgen-induced Long Noncoding RNA (lncRNA) SOCS2-AS1 Promotes Cell Growth and Inhibits Apoptosis in Prostate Cancer Cells. *J Biol Chem* 291: 17861-17880.