

硬組織病態生化学

1. *Kobayashi M, Wakabayashi I, Suzuki Y, Fujiwara K, Nakayama M, **Watabe T**, *Sato Y. Tubulin carboxypeptidase activity of vasohibin-1 inhibits angiogenesis by interfering with endocytosis and trafficking of pro-angiogenic factor receptors. *Angiogenesis*. 2020 Oct 14. doi: 10.1007/s10456-020-09754-6.
2. Sakakitani S, Podyma-Inoue KA, Takayama R, Takahashi K, Ishigami-Yuasa M, Kagechika H, **Harada H**, ***Watabe T**. Activation of β 2-adrenergic receptor signals suppresses mesenchymal phenotypes of oral squamous cell carcinoma cells. *Cancer Science*. 2020 Oct 2. doi: 10.1111/cas.14670. Online ahead of print.
3. Takahashi K, Akatsu Y, Podyma-Inoue KA, Matsumoto T, Takahashi H, Yoshimatsu Y, Koinuma D, Shirouzu M, Miyazono K, ***Watabe T**. Targeting all transforming growth factor- β isoforms with an Fc chimeric receptor impairs tumor growth and angiogenesis of oral squamous cell cancer. *Journal of Biological Chemistry*. 2020 Sep 4;295(36):12559-12572. doi: 10.1074/jbc.RA120.012492.
4. Ojima C, Noguchi Y, Miyamoto T, Saito Y, Orihashi H, Yoshimatsu Y, **Watabe T**, Takayama K, Hayashi Y, Itoh F. Peptide-2 from mouse myostatin precursor protein alleviates muscle wasting in cancer-associated cachexia. *Cancer Science*. 2020 Jun 10;111(8):2954-2964. doi: 10.1111/cas.14520.
5. Yoshimatsu Y, Wakabayashi I, Kimuro S, Takahashi N, Takahashi K, Kobayashi M, Maishi N, Podyma-Inoue KA, Hida K, Miyazono K, ***Watabe T**. TNF- α enhances TGF- β -induced endothelial-to-mesenchymal transition via TGF- β signal augmentation. *Cancer Science*. 2020 Jul;111(7):2385-2399. doi: 10.1111/cas.14455.
6. Yoshimatsu Y, Kimuro S, Pauty J, Takagaki K, Nomiyama S, Inagawa A, Maeda K, Podyma-Inoue KA, Kajiya K, Matsunaga YT, ***Watabe T**. TGF-beta and TNF-alpha cooperatively induce mesenchymal transition of lymphatic endothelial cells via activation of Activin signals. *PLoS One*. 2020 May 1;15(5):e0232356. doi: 10.1371/journal.pone.0232356.
7. Yang W, Podyma-Inoue KA, Yonemitsu I, Watari I, Ikeda Y, Guo X, **Watabe T**, *Ono T. Mechanoresponsive and lubricating changes of mandibular condylar cartilage associated with mandibular lateral shift and recovery in the growing rat. *Clin Oral Investig*. 2020 Feb 7. doi: 10.1007/s00784-020-03225-4. Online ahead of print.
8. Kato Y, Arakawa S, Terasawa K, Inokuchi JI, Iwata T, Shimizu S, **Watabe T**, *Hara-Yokoyama M. The ceramide analogue N-(1-hydroxy-3-morpholino-1-phenylpropan-2-yl)decanamide induces large lipid droplet accumulation and highlights the effect of LAMP-2 deficiency on lipid droplet degradation. *Bioorg Med Chem Lett*. 2020 Feb

- 1;30(3):126891. doi: 10.1016/j.bmcl.2019.126891.
9. Yamamoto D, Kayamori K, Sakamoto K, Tsuchiya M, **Ikeda T**, **Harada H**, **Yoda T**, **Watabe T**, Hara-Yokoyama M. Intracellular claudin-1 at the invasive front of tongue squamous cell carcinoma is associated with lymph node metastasis. *Cancer Science* 2020 Feb;111(2):700-712. doi: 10.1111/cas.14249.
 10. Akatsu Y, Takahashi N, Yoshimatsu Y, Kimuro S, Muramatsu T, Katsura A, Maishi N, Suzuki HI, Inazawa J, Hida K, Miyazono K, ***Watabe T**. Fibroblast growth factor signals regulate transforming growth factor- β -induced endothelial-to-myofibroblast transition of tumor endothelial cells via Elk1. *Molecular Oncology*. 2019 Aug;13(8):1706-1724. doi: 10.1002/1878-0261.12504.
 11. Iwasaki K, Komaki M, Akazawa K, Nagata M, Yokoyama N, **Watabe T**, Morita I. Spontaneous differentiation of periodontal ligament stem cells into myofibroblast during ex vivo expansion. *Journal of Cellular Physiology*. 2019 Nov;234(11):20377-20391. doi:10.1002/jcp.28639.
 12. Okamoto H, Yoshimatsu Y, Tomizawa T, Kunita A, Takayama R, Morikawa T, Komura D, Takahashi K, Oshima T, Sato M, Komai M, Podyma-Inoue KA, Uchida H, Hamada H, Fujiu K, Ishikawa S, Fukayama M, Fukuhara T, ***Watabe T**. Interleukin-13 receptor $\alpha 2$ is a novel marker and potential therapeutic target for human melanoma. *Scientific Reports*. 2019 Feb 4;9(1):1281.
 13. Iwasaki K, Akazawa K, Nagata M, Komaki M, Honda I, Morioka C, Yokoyama N, Ayame H, Yamaki K, Tanaka Y, Kimura T, Kishida A, **Watabe T**, Morita I. The Fate of Transplanted Periodontal Ligament Stem Cells in Surgically Created Periodontal Defects in Rats. *International Journal of Molecular Science*. 2019 Jan 7;20(1). pii: E192.
 14. Iwasaki K, Nagata M, Akazawa K, **Watabe T**, Morita I. Changes in characteristics of periodontal ligament stem cells in spheroid culture. *Journal of Periodontal Research*. 2019 Aug;54(4):364-373.
 15. Ren E, Watari I, Jui-Chin H, Mizumachi-Kubono M, Podyma-Inoue KA, Narukawa M, Misaka T, **Watabe T**, Ono T. Unilateral nasal obstruction alters sweet taste preference and sweet taste receptors in rat circumvallate papillae. *Acta Histochem*. 2019 Feb;121(2):135-142.
 16. Takahashi K, Podyma-Inoue KA, Takao C, **Yoshimatsu Y**, Muramatsu T, Inazawa J, ***Watabe T**. Regulatory role of transforming growth factor- β signals in the migration and tumor formation of HOC313-LM cells, an oral squamous cell carcinoma *Journal of the Stomatological Society*. 85, 52-61. 2018
 17. *Fukuhara T, Kim J, Hokaiwado S, Nawa M, Okamoto H, Kogiso T, **Watabe T**,

- Hattori N. (2017) A novel immunotoxin reveals a new role for CD321 in endothelial cells *PLoS One* 12:e0181502.
18. Akatsu Y, Yoshimatsu Y, Tomizawa T, Takahashi K, Katsura A, *Miyazono K, ***Watabe T**. (2017) Dual targeting of VEGF and BMP-9/10 impairs tumor growth via inhibition of angiogenesis *Cancer Science* 108:151-155.
 19. Norita R, Suzuki Y, Furutani Y, Takahashi K, Yoshimatsu Y, Podyma-Inoue KA, **Watabe T**, *Sato Y. (2017) Vasohibin-2 is required for epithelial-mesenchymal transition of ovarian cancer cells by modulating TGF- β signaling. *Cancer Science* 108: 419-426.
 20. Ode T, Podyma-Inoue KA, Terasawa K, Inokuchi JI, Kobayashi T, **Watabe T**, Izumi Y, *Hara-Yokoyama M. (2017) PDMP, a ceramide analogue, acts as an inhibitor of mTORC1 by inducing its translocation from lysosome to endoplasmic reticulum. *Experimental Cell Research* 350:103-114.
 21. Terasawa K, Tomabechi Y, Ikeda M, Ehara H, Kukimoto-Niino M, Wakiyama M, Podyma-Inoue KA, Rajapakshe AR, **Watabe T**, Shirouzu M, *Hara-Yokoyama M. (2016) Lysosome-associated membrane proteins-1 and -2 (LAMP-1 and LAMP-2) assemble via distinct modes. *Biochemical and Biophysical Research Communications* pii: S0006-291X(16)31560-1.
 22. Muguruma K, Yakushiji F, Kawamata R, Akiyama D, Arima R, Shirasaka T, Kikkawa Y, Taguchi A, Takayama K, Fukuhara T, **Watabe T**, Ito Y, *Hayashi Y. (2016) Novel Hybrid Compound of a Plinabulin Prodrug with an IgG Binding Peptide for Generating a Tumor Selective Noncovalent-Type Antibody-Drug Conjugate. *Bioconjugate Chemistry* 27:1606-1613.
 23. Ogata F, Fujiu K, Matsumoto S, Nakayama Y, Shibata M, Oike Y, Koshima I, **Watabe T**, Nagai R, *Manabe I. (2016) Excess lymphangiogenesis co-operatively induced by macrophages and CD4⁺ T cells drives the pathogenesis of lymphedema. *Journal of Investigative Dermatology* 136:706-714.
 24. Morikawa M, Koinuma D, Mizutani A, Kawasaki N, Holmborn K, Sundqvist A, Tsutsumi S, **Watabe T**, Aburatani H, Heldin CH, *Miyazono K. (2016) BMP Sustains Embryonic Stem Cell Self-Renewal through Distinct Functions of Different Krüppel-like Factors. *Stem Cell Reports* 6:64-73.
 25. Katsura A, Suzuki HI, Ueno T, Mihira H, Yamazaki T, Yasuda T, **Watabe T**, Mano H, Yamada Y, *Miyazono K. (2016) MicroRNA-31 is a positive modulator of endothelial-mesenchymal transition and associated secretory phenotype induced by TGF- β . *Genes to Cells* 21:99-116.