

## 蛍光標識グリコサミノグリカン使用論文

### 培養細胞への結合／細胞内取り込み

- 1) Urakawa H., Therapeutic potential of hyaluronan oligosaccharides for bone metastasis of breast cancer. *J Orthop Res*, 2012, 30(4):662-72.
- 2) An Approach to Transgene Expression in Liver Endothelial Cells Using a Liposome-Based Gene Vector Coated with Hyaluronic Acid. *J Pharm Sci*, 2013, 102, 3119–3127.
- 3) Miyazaki T., Chondroitin Sulfate-E Binds to Both Osteoactivin and Integrin  $\alpha$ V $\beta$ 3 and Inhibits Osteoclast Differentiation. *J Cell Biochem*, 2015, 116:2247-2257.
- 4) Yamada Y., Hyaluronic acid controls the uptake pathway and intracellular trafficking of an octaarginine-modified gene vector in CD44 positive- and CD44 negative-cells. *Biomaterials*, 2015, 52:189-98.
- 5) Laner-Plamberger S., Heparin Differentially Impacts Gene Expression of Stromal Cells from Various Tissues. *Sci Rep*, 2019, 9(1):7258.
- 6) Fell CW., FIBCD1 is an endocytic GAG receptor associated with a novel neurodevelopmental disorder, *EMBO Mol Med*, 2022, 14(9) :e15829.
- 7) Mitani S., Generation of functional liver sinusoidal endothelial-like cells from human bone marrow-derived mesenchymal stem cells. *Regen Ther*, 2023, 24:274-281.

### 皮膚浸透性

- 1) Hashimoto N., The Effect of Iontophoresis with and without Electroporation on the Penetration of High Molecular Compounds into the Stratum Corneum. *Chem Pharm Bull (Tokyo)*, 2022, 70(6):454-457.
- 2) Inoue S., Non-invasive Intradermal Delivery of Hyaluronic Acid via Iontophoresis. *Biol Pharm Bull*, 2023, 46(11):1635-1638.

### ヒアルロン酸分解活性測定

- 1) Yoshida H., KIAA1199, a deafness gene of unknown function, is a new hyaluronan binding protein involved in hyaluronan depolymerization. *Proc Natl Acad Sci U S A*, 2013, 110(14):5612-7.
- 2) Yoshida H., Murine homologue of the human KIAA1199 is implicated in hyaluronan binding and depolymerization. *FEBS Open Bio*, 2013, 3:352-6.
- 3) Nagaoka A., Regulation of Hyaluronan (HA) Metabolism Mediated by HYBID

(Hyaluronan-binding Protein Involved in HA Depolymerization, KIAA1199) and HA Synthases in Growth Factor-stimulated Fibroblasts. *J Biol Chem*, 2015, 290(52):30910-23.

- 4) Yamamoto H., A mammalian homolog of the zebrafish transmembrane protein 2 (TMEM2) is the long-sought-after cell-surface hyaluronidase. *J Biol Chem*, 2017, 292(18):7304-7313.
- 5) Shiozawa J., Implication of HYBID (Hyaluronan-Binding Protein Involved in Hyaluronan Depolymerization) in Hyaluronan Degradation by Synovial Fibroblasts in Patients with Knee Osteoarthritis. *Am J Pathol*, 2020, 190(5):1046-1058.
- 6) Tobisawa Y., The cell surface hyaluronidase TMEM2 is essential for systemic hyaluronan catabolism and turnover. *J Biol Chem*, 2021, 297(5):101281.
- 7) Shiozawa J., Expression and regulation of recently discovered hyaluronidases, HYBID and TMEM2, in chondrocytes from knee osteoarthritic cartilage. *Sci Rep*, 2022, 12(1):17242.

#### 蛍光相関分光法 (Fluorescence Correlation Spectroscopy)

- 1) Miyazaki T., Oversulfated chondroitin sulfate-E binds to BMP-4 and enhances osteoblast differentiation. *J Cell Physiol*, 2008, 217(3):769-77.
- 2) Sahoo H., Influence of glycosaminoglycans on lipid dynamics in supported phospholipid bilayers. *Soft Matter*, 2013, 9, 3859.

#### 生体材料など

- 1) Naka Y., Wholly vascularized millimeter-sized engineered tissues by cell-sized microscaffolds *Mater Today Bio*, 2020, 6:100054.
- 2) Wille I., Development of Neuronal Guidance Fibers for Stimulating Electrodes: Basic Construction and Delivery of a Growth Factor. *Front Bioeng Biotechnol*, 2022, 10:776890.