

生化学講座 細胞情報科学分野

| 氏名    | 所属                | 職名  | 取得学位       | 専門分野                              | 主な論文・著作・業績   |
|-------|-------------------|-----|------------|-----------------------------------|--|
| 石崎 明  | 生化学講座<br>細胞情報科学分野 | 教授  | 博士（歯学）     | 常態系口腔科学関連<br>病態系口腔科学関連<br>腫瘍生物学関連 | ①Matsumoto, S., et al. (8th in 8 authors): Receptor tyrosine kinase ligands and inflammatory cytokines cooperatively suppress the fibrogenic activity in temporomandibular-joint-derived fibroblast-like synoviocytes through mitogen-activated protein kinase/extracellular signal-regulated kinase. <i>Exp. Ther. Med.</i> , 20: 1967-1974, 2020.<br>②Takizawa, N., et al. (12th in 13 authors): Bone marrow-derived mesenchymal stem cells propagate immunosuppressive/anti-inflammatory macrophages in cell-to-cell contact-independent and -dependent manners under hypoxic culture., <i>Exp. Cell Res.</i> , 358: 411-420, 2017.<br>③Kanno, Y., et al. (2nd in 12 authors): Plasminogen/Plasmin modulates bone metabolism by regulating the osteoblast and osteoclast function. <i>J. Biol. Chem.</i> , 286: 8952-8960, 2011.<br>④Ishisaki, A., et al. (1st in 4 authors): Human umbilical vein endothelium-derived cells retain potential to differentiate into smooth muscle-like cells. <i>J. Biol. Chem.</i> , 278: 1303-1309, 2003.<br>⑤Ishisaki, A., et al. (1st in 9 authors): Differential Inhibition of Smad6 and Smad7 on bone morphogenetic protein- and activin-mediated growth arrest and apoptosis in B cells. <i>J. Biol. Chem.</i> , 274: 13637-13642, 1999.   |
| 加茂 政晴 | 生化学講座<br>細胞情報科学分野 | 准教授 | 博士（理学）     | 常態系口腔科学関連<br>病態系口腔科学関連<br>腫瘍生物学関連 | ①Hirano T., et al.(last in 5 authors/Corresponding author): TGF- $\beta$ 1 induces N-cadherin expression by upregulating Sox9 expression and promoting its nuclear translocation in human oral squamous cell carcinoma cells./ <i>Oncol Lett.</i> 20:474-482(2020)<br>②Hino M., et al. (2nd in 7 authors/Corresponding author): Transforming growth factor- $\beta$ 1 induces invasion ability of HSC-4 human oral squamous cell carcinoma cells through the Slug/Wnt-5b/MMP-10 signalling axis./ <i>J. Biochem.</i> 159:631-640(2016)<br>③Saito, D., et al. (last in 9 authors/Corresponding author): Transforming growth factor- $\beta$ 1 induces epithelial-mesenchymal transition and integrin $\alpha$ 3 $\beta$ 1-mediated cell migration of HSC-4 human squamous cell carcinoma cells through Slug./ <i>J. Biochem.</i> 153:303-315(2013)<br>④Kamo, M. and Tsugita, A.: Specific cleavage of amino side chains of serine/threonine in peptides and proteins with S-ethyl trifluoroacetate vapor./ <i>Eur. J. Biochem.</i> 255:162-171(1998)<br>⑤Kamo, M., et al.(1st in 4 authors): Separation and Characterization of Arabidopsis thaliana proteins by two-dimensional gel electrophoresis./ <i>Electrophoresis</i> 16:423-430(1995)  |
| 帖佐 直幸 | 生化学講座<br>細胞情報科学分野 | 准教授 | 博士（地球環境科学） | 常態系口腔科学関連<br>医科学関連<br>免疫学関連       | ①Chosa N., Ishisaki A. "Two novel mechanisms for maintenance of stemness in mesenchymal stem cells: SCRG1/BST1 axis and cell-cell adhesion through N-cadherin". <i>Japanese Dental Science Review</i> , 54:37-44, 2018.<br>②Suzuki K.*, Chosa N.*, Sawada S., Takizawa N., Yaegashi T., Ishisaki A. "Enhancement of anti-inflammatory and osteogenic abilities of mesenchymal stem cells via cell-to-cell adhesion to periodontal ligament-derived fibroblasts". <i>Stem Cells International</i> , 2017:3296498, 2017. *co-first authors.<br>③Aomatsu E., Takahashi N., Sawada S., Okubo N., Hasegawa T., Taira M., Miura H., Ishisaki A., Chosa N. "Novel SCRG1/BST1 axis regulates self-renewal, migration, and osteogenic differentiation potential in mesenchymal stem cells". <i>Scientific Reports</i> , 4:3652, 2014.<br>④Jang I.H.*, Chosa N.*, Kim S.H., Nam H.J., Lemaitre B., Ochiai M., Kambris Z., Brun S., Hashimoto C., Ashida M., Brey P.T., Lee W.J. "A Spatzle-processing enzyme is indispensable for Toll signaling activation in Drosophila innate immunity". <i>Developmental Cell</i> , 10:45-55, 2006. *co-first authors.<br>⑤Chosa N., Taira M., Saitoh S., Sato N., Araki Y. "Characterization of apatite formed on alkaline-heat-treated Ti". <i>Journal of Dental Research</i> , 83:465-469, 2004. *co-first authors. |

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| 氏名    | 所属                | 職名 | 取得学位   | 専門分野                   | 主な論文・著作・業績  |
|-------|-------------------|----|--------|------------------------|---|
| 横田 聖司 | 生化学講座<br>細胞情報科学分野 | 助教 | 博士（歯学） | 常態系口腔科学関連<br>病態系口腔科学関連 | <p>①Yokota S., Chosa N., Kyakumoto S., Kimura H., Ibi M., Kamo M., Satoh K., Ishisaki A. "ROCK/actin/MRTF signaling promotes the fibrogenic phenotype of fibroblast-like synoviocytes derived from the temporomandibular joint". International Journal of Molecular Medicine, 39:799-808, 2017.</p> <p>②Takizawa N.*,Okubo N.*,Kamo M.,Chosa N.,Mikami T.,Suzuki K.,Yokota S.,Ibi M.,Ohtsuka M.,Taira M.,Yaegashi Y.,Ishigaki A.,Kyakumoto S. "Bone marrow-derived mesenchymal stem cells propagate immunosuppressive/anti-inflammatory macrophages in cell to cell contact-independent and -dependent manners under hypoxic culture".Experimental Cell Research, 358:411-420,2017.*co-first authors.</p> <p>③Nemoto A.,Chosa N.,Kyakumoto S.,Yokota S.,Kamo M.,Noda M.,Ishisaki A.,"Water-soluble factors eluted from surface pre-reached glass ionomer filler promote osteoblastic differentiation of human mesenchymal stem cells".Molecular Medicine Reports. 17:3448-3454. 2018.</p> <p>④Ohta M.*,Nemoto A.*,Chosa N.,Kyakumoto S.,Yokota S.,Kamo M.,Shibata S.,Joh S.,Satoh K.,Ishisaki A. "Toll-like receptor 4-mediated signaling activated by lipopolysaccharide suppresses transforming growth factor-beta-induced nerve growth factor expression in periodontal ligament-derived fibroblasts".Dental Journal of Iwate Medical University. 43:61-73. 2018.*co-first authors.</p> <p>⑤Ohta M.,Chosa N.,Kyakumoto S.,Yokota S.,Okubo N.,Nemoto A.,Kamo M.,Joh S.,Satoh K.,Ishisaki A. "IL-1<math>\beta</math> and TNF-<math>\alpha</math> suppress TGF-<math>\beta</math>-promoted NGF expression in periodontal ligament-derived fibroblasts through inactivation of TGF-<math>\beta</math>-induced Smad2/3-, and p38 MAPK-mediated signals".International Journal of Molecular Medicine. 43:1484-1494. 2018</p> |