

Disease modeling (in vitro Efficacy / Toxicology)

Bone Organoid Osteoblast

Induced pluripotent stem cell-derived osteoblast model. We provide efficacy evaluation service focused on osteogenesis effect of novel treatments using iPSC-derived osteoblast.

*Disease: Osteogenesis Imperfecta, Ankylosing spondylitis, Osteoarthritis, Reumatoid arthritis.

▪ Gene expression level

- BMP2, RUNX2, COL1A1, OPN, OCN

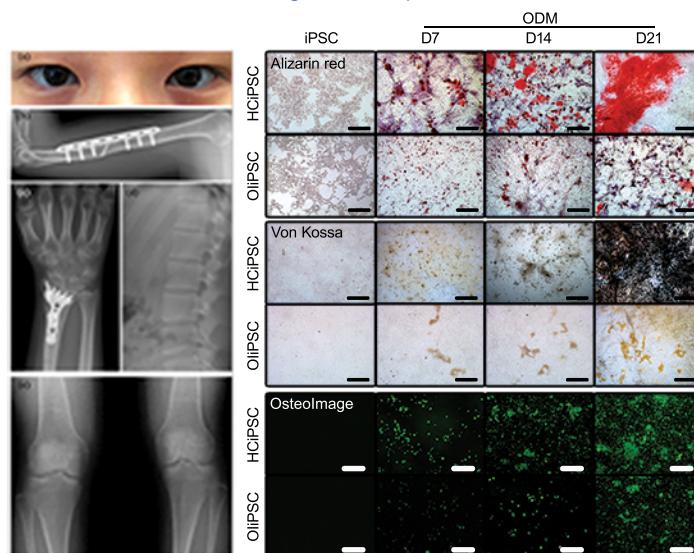
▪ Histological analysis

- Alizarin Red
- Von Kossa stain
- Osteolimage Mineralization assay

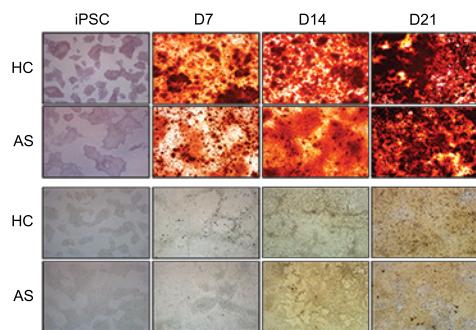
▪ Inflammatory cytokine

- Osteogenesis effect of cytokine using patient's iPSC-derived osteoblast

Osteogenesis Imperfecta



Ankylosing spondylitis



Reumatoid arthritis and Osteoarthritis

