

Je-Hwang Ryu

Curriculum Vitae



Professor
School of Dentistry, Chonnam National University, Korea

Educational Background & Professional Experience

2012–Present	Professor, School of Dentistry, Chonnam National University, Korea
2008–2012	Research Professor, Department of Life Science, Gwangju Institute of Science and Techonology (GIST), Korea
2006–2008	Post–Doc., Columbia University Medical School, New York, USA
2002–2006	Ph.D., Department of Life Science, Gwangju Institute of Science and Techonology(GIST), Korea

Research Interests

Cartilage development and Osteoarthritis(OA) / Rheumatoid arthritis (RA)
Bone development and Osteoporosis
Periodontitis (PD) pathogenesis

Publications

- Enhancement of Intracellular Cholesterol Efflux in Chondrocytes Leading to Alleviation of Osteoarthritis Progression. Lee G, Yang J, Kim SJ, Tran TT, Lee SY, Park KH, Kwon SH, Chung KH, Koh JT, Huh YH, Seon JK, Kim HA, Chun JS, Ryu JH. Arthritis Rheumatol. 2025 Feb;77(2):151–162.
- Disruption of cholesterol homeostasis triggers periodontal inflammation and alveolar bone loss. Tran TT, Lee G, Huh YH, Chung KH, Lee SY, Park KH, Kwon SH, Kook MS, Chun JS, Koh JT, Ryu JH. Exp Mol Med. 2023 Dec;55(12):2553–2563.
- Hypoxia–inducible factor–2alpha mediates senescence–associated intrinsic mechanisms of age–related bone loss. Lee SY, Park KH, Lee G, Kim SJ, Song WH, Kwon SH, Koh JT, Huh YH, Ryu JH. Exp Mol Med. 2021 Apr;53(4):591–604.
- Controlling hypoxia–inducible factor–2alpha is critical for maintaining bone homeostasis in mice. Lee SY, Park KH, Yu HG, Kook E, Song WH, Lee G, Koh JT, Shin HI, Choi JY, Huh YH, Ryu JH. Bone Res. 2019 May 13;7:14.
- The CH25H–CYP7B1–RORα axis of cholesterol metabolism regulates osteoarthritis.Choi WS, Lee G, Song WH, Koh JT, Yang J, Kwak JS, Kim HE, Kim SK, Son YO, Nam H, Jin I, Park ZY, Kim J, Park IY, Hong JI, Kim HA, Chun CH, Ryu JH*, Chun JS*. Nature. 2019 Feb 6. doi: 10.1038/s41586–019–0920–1. [Co–corresponding Author]