

Xiangguo Che

Curriculum Vitae

Research Professor
Department of Biochemistry and Cell Biology, Cell and Matrix Research Institute, School of Medicine, Kyungpook National University, Daegu, Korea



Educational Background & Professional Experience

2018.06–Present	Research Professor, Department of Biochemistry and Cell Biology, Cell and Matrix Research Institute, School of Medicine, Kyungpook National University, Korea
2016.03–2018.05	Postdoctoral Fellow, Cell and Matrix Research Institute, School of Medicine, Kyungpook National University, Korea
2008.09–2016.02	Ph.D. in Medical Science, School of Medicine, Kyungpook National University, Korea
2007.09–2008.06	Resident, LongJing Hospital, China
2001.09–2006.06	B.S. in Medicine, School of Medicine, YanBian University, China

Research Interests

Bone and cartilage regeneration
Osteoarthritis pathophysiology and early diagnosis
Vascular calcification and bone–vascular crosstalk

Publications

1. Noh M[#], Che X[#], Jin X, Lee DK, Kim HJ, Park DR, Lee SY, Lee H, Gardella TJ, Choi JY, Lee S.. Dimeric R25CPTH(1–34) activates the parathyroid hormone–1 receptor in vitro and stimulates bone formation in osteoporotic female mice. *Elife*. 2025 Mar 28;13:RP97579.
2. Che X[#], Oh J, Kang J, Kim D, Kim S, Choi J. 4–Hexylresorcinol Enhances Glut4 Expression and Glucose Homeostasis via AMPK Activation and Histone H3 Acetylation. *Int J Mol Sci*. 2024 Nov 15;25(22):12281.
3. Che X[#], Kim HJ, Jin X, Kim J, Park K, Lim J, Kyung H, Oh C, Choi J. Bone Marrow Stem Cell Population in Single– and Multiple–Level Aspiration. *Biomedicines*. 2024 Nov 28;12(12):2731.
4. Jin X[#], Che X[#], Lee D, Cui Y, Choi P, Kim H, Lee J, Kweon H, Kim S, Choi J. Silk sericin–based functional food for osteoporosis prevention and therapy. *Journal of Functional Foods*. 2024 May; 116(106148).
5. Che X[#], Jin X[#], Park NR, Kim HJ, Kyung HS, Kim HJ, Lian JB, Stein JL, Stein GS, Choi JY. Cbfb Is a Novel Modulator against Osteoarthritis by Maintaining Articular Cartilage Homeostasis through TGF–b Signaling. *Cells*. 2023 Mar 31;12(7):1064.
6. Cho E[#], Che X[#], Ang M, Cheon S, Lee J, Kim KS, Lee C, Lee S, Yang HY, Moon C, Park C, Choi JY, Lee T. Peroxiredoxin 5 regulates osteogenic differentiation through interaction with hnRNPK during bone regeneration. *Elife*. 2023 Feb 3;12:e80122.
7. Che X[#], Park N, Jin X, Jung Y, Han M, Park C, Chun J, Kim S, Jin J, Kim H, Lian J, Stein J, Stein G, Choi J. Hypoxia–inducible factor 2a is a novel inhibitor of chondrocyte maturation. *Journal of Cellular Physiology*, 2021 Oct;236(10):6963–6973.
8. Che X[#], Chi L[#], Park CY, Cho GH, Park N, Kim SG, Lee BH, Choi JY. A novel method to detect articular chondrocyte death during early stages of osteoarthritis using a non–invasive ApoPep–1 probe. *Arthritis Res Ther*. 2015 Nov 4;17:309.