

Mentoring: Conference Contributions

Selected Conference Presentation Students as first-author:

1. **Jung J**, Wu Q. Incorporation of DNA methylation profiles improve the identification of high-risk osteoporotic fractures patients in the postmenopausal women. *J Bone Miner Res* 2022.
2. **Dai J**, Wu Q. Design novel algorithms for calculating genetic risk score to improve the prediction of fracture and bone mineral density in non-European ethnic groups. *J Bone Miner Res* 2022.
3. **Xu Y**, Wu Q. Different Trends in Bone Mineral Density and Osteoporosis among Adults with Type 2 Diabetes, Living in the United States, 2005-2006 through 2013-2014. *J Bone Miner Res* 2019; 32 (Suppl 1). Available at <https://www.asbmr.org/education/2019-abstracts>.
4. **Xiao X**, Wu Q. Prediction of bone mineral density by using various genetic profiling: A comparative analysis in independent samples. *J Bone Miner Res* 2019 32 (Suppl 1). Available at <https://www.asbmr.org/education/2019-abstracts>.
5. **Xu Y**, Wu Q. Derivation and External Validation of the Lower Limit of Normal Values' Predictive Ability for Future Fracture in African-American Women. *J Bone Miner Res* 32 (Suppl 1). *J Bone Miner Res* 2019 32 (Suppl 1). Available at <https://www.asbmr.org/education/2019-abstracts>.
6. **Xiao, X.**, Roohani, D., Wu, Q. Genetic profiling of decreased bone mineral density in an independent sample of Caucasian women. *J Bone Miner Res* 32 (Suppl 1). 2017; Available at <https://www.asbmr.org/education/2017-abstracts>.
7. **Xu, Y.**, Wu, Q. Trends in Mean Femoral Neck Bone Mineral Density Among Individuals Aged 30 or Older in the United States, 2005-2006 through 2013-2014. *J Bone Miner Res* 2017; 32 (Suppl 1). Available at <https://www.asbmr.org/education/2017-abstracts>.

Selected Conference Presentation Students as co-authors:

1. Wu Q. **Dai J.** Using Machine Learning Algorithms with Bayesian optimization tuning technique for fracture prediction in genomic and phenotypic data of 25,772 postmenopausal women The Joint Statistical Meeting 2021. Abstr. (317399)
2. Wu Q. & **Xiao X.** Fracture Prediction of European-ancestry Polygenic Risk Score in Different Racial and Ethnic Groups. The Americal Society Bone Mineral Research 2021 Annual Meeting. Abstr. (A21023313)
3. Wu Q. **Mun, H., & Liu, B.** High-sensitivity C-reactive protein and risk of fracture: a meta-analysis of prospective studies. Joint Statistical Meetings 2020. Abstr. (312653)
4. Wu Q., & **Jung, J.** Using machine learning approaches and genomic data for fracture risk prediction in the US older men. 47th Annual European Calcified Tissue Society Congress. 2020, 10 Abstr. (A-1145-0027-00243)
5. Wu Q., & **Jung, J.** (2020, October). Polygenic Prediction of Major Osteoporotic Fracture in Postmenopausal Women by Using Associated Single Nucleotide Polymorphisms and a Machine Learning Algorithm. American Society of Human Genetics 2020 Annual Meeting. Abstr. (A-1083)