

SSBH 2021 Curriculum Vitae

Name	Ha-Neui Kim
Organization	University of Arkansas for Medical Sciences
Position & Title	Assistant Professor

Educational background & Professional experience

2017 - present	<u>Assistant Professor</u> , Division of Endocrinology and Metabolism, Center for Osteoporosis and Metabolic Bone Diseases, University of Arkansas for Medical Sciences, Little Rock, AR
2015 - 2017	<u>Research Instructor</u> , Division of Endocrinology and Metabolism, Center for Osteoporosis and Metabolic Bone Diseases, University of Arkansas for Medical Sciences, Little Rock, AR
2012 - 2015	<u>Postdoctoral fellow</u> , Division of Endocrinology and Metabolism, Center for Osteoporosis and Metabolic Bone Diseases, University of Arkansas for Medical Sciences, Little Rock, AR (<u>supervised by Drs. Almeida & Manolagas</u>)
2011 - 2012	<u>Postdoctoral fellow</u> , Seoul National University (<u>supervised by Dr. Zang Hee Lee</u>)
2007 - 2011	<u>PhD student</u> , Seoul National University (<u>supervised by Dr. Zang Hee Lee</u>)

Research Interests

1. Age-related bone loss.
2. Sex steroid deficiency-associated bone loss.
3. Role of mitochondrial quality controls in skeletal cells.

Publications

1. Ling W, Krager K, Richardson KK, Warren A, Ponte F, Aykin-Burns N, Manolagas SC, Almeida M, **Kim HN**. Mitochondrial Sirt3 contributes to the bone loss caused by aging or estrogen deficiency. *JCI Insight*. 2021. In press.
2. **Kim HN***, Xiong J*, MacLeod RS, Iyer S, Fujiwara Y, Cawley KM, Han L, He Y, Thostenson JD, Ferreira E, Jilka RL, Zhou D, Almeida M, O'Brien CA. Osteocyte RANKL is required for cortical bone loss with age and is induced by senescence. *JCI Insight*. 2020 Oct 2;5(19):138815. doi: 10.1172/jci.insight.138815.
3. **Kim HN**, Ponte F, Nookaew I, Ucer Ozgurel S, Marques-Carvalho A, Iyer S, Warren A, Aykin-Burns N, Krager K, Sardao VA, Han L, de Cabo R, Zhao H, Jilka RL, Manolagas SC, Almeida M. Estrogens decrease osteoclast number by attenuating mitochondria oxidative phosphorylation and ATP production in early osteoclast precursors. *Sci Rep*. 2020 Jul 20;10(1):11933. PMID: 32686739.

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4. He Y*, Zhang X*, Chang J*, **Kim HN***, Zhang P, Wang Y, Khan S, Liu X, Zhang X, Lv D, Song L, Li W, Thummuri D, Yuan Y, Wiegand J, Ortiz Y, Budamagunta V, Elisseeff J, Campisi J, Almeida M, Zheng G*, and Zhou D*. Using proteolysis targeting chimera technology to reduce ABT263 on-target platelet toxicity and improve its senolytic activity. *Nat Commun.* 2020 Apr 24;11(1):1996. doi: 10.1038/s41467-020-15838-0. PMID: 32332723 ***Contributed equally**
 5. **Kim HN**, Chang J, Iyer S, Han L, Campisi J, Manolagas SC, Zhou D, Almeida M. Elimination of senescent osteoclast progenitors has no effect on the age-associated loss of bone mass in mice. *Aging Cell.* 2019 Jun;18(3):e12923. doi: 10.1111/accel.12923. Epub 2019 Feb 17. PMID: 30773784
 6. **Kim HN**, Iyer S, Ring R, Almeida M. The Role of FoxOs in Bone Health and Disease. *Curr Top Dev Biol.* 2018;127:149-163. doi: 10.1016/bs.ctdb.2017.10.004. Epub 2017 Dec 14. PMID: 29433736
 7. **Kim HN**, Chang J, Shao L, Han L, Iyer S, Manolagas SC, O'Brien CA, Jilka RL, Zhou D, Almeida M. DNA damage and senescence in osteoprogenitors expressing Osx1 may cause their decrease with age. *Aging Cell.* 2017 Aug;16(4):693-703. doi: 10.1111/accel.12597. Epub 2017 Apr 12. PMID: 28401730
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