



Hui Zhu

Basic Life Research Scientist, Medicine - Med/Endocrinology

Bio

EDUCATION AND CERTIFICATIONS

- Ph.D., Institute of Biochemistry and Cell Biology, Chinese Academy of Science , Molecular and Cell Biology (2007)

Publications

PUBLICATIONS

- **The role of vesicle trafficking genes in osteoblast differentiation and function.** *Scientific reports*
Zhu, H., Su, Y., Wang, J., Wu, J. Y.
2023; 13 (1): 16079
- **Parathyroid hormone receptor (PTH1R) signaling mediates breast cancer metastasis to bone in mice.** *JCI insight*
Swami, S., Zhu, H., Nisco, A., Kimura, T., Kim, M. J., Nair, V., Wu, J. Y.
2023
- **Histopathology of osteogenesis imperfecta bone. Supramolecular assessment of cells and matrices in the context of woven and lamellar bone formation using light, polarization and ultrastructural microscopy.** *Bone reports*
Shapiro, F., Maguire, K., Swami, S., Zhu, H., Flynn, E., Wang, J., Wu, J. Y.
2021; 14: 100734
- **Induction of Osteoblasts by Direct Reprogramming of Mouse Fibroblasts.** *Methods in molecular biology (Clifton, N.J.)*
Zhu, H. n., Wu, J. Y.
2020; 2155: 201–12
- **Direct reprogramming of mouse fibroblasts into functional osteoblasts.** *Journal of bone and mineral research : the official journal of the American Society for Bone and Mineral Research*
Zhu, H., Swami, S., Yang, P., Shapiro, F., Wu, J.
2019
- **Pluripotent stem cells as a source of osteoblasts for bone tissue regeneration.** *Biomaterials*
Zhu, H. n., Kimura, T. n., Swami, S. n., Wu, J. Y.
2018
- **Prevention of breast cancer skeletal metastases with parathyroid hormone.** *JCI insight*
Swami, S. n., Johnson, J. n., Bettinson, L. A., Kimura, T. n., Zhu, H. n., Albertelli, M. A., Johnson, R. W., Wu, J. Y.
2017; 2 (17)
- **Human Embryonic Stem Cell Lines with Lesions in FOXP3 and NF1** *PLOS ONE*
Zhu, H., Behr, B., Reddy, V. V., Hughes, M., Pan, Y., Baker, J.
2016; 11 (3)
- **JMJD5 Regulates Cell Cycle and Pluripotency in Human Embryonic Stem Cells.** *Stem cells*

- Zhu, H., Hu, S., Baker, J.
2014; 32 (8): 2098-2110
- **FAM29A, a target of Pik1 regulation, controls the partitioning of NEDD1 between the mitotic spindle and the centrosomes** *JOURNAL OF CELL SCIENCE*
Zhu, H., Fang, K., Fang, G.
2009; 122 (15): 2750-2759
 - **Calcium signaling-induced Smad3 nuclear accumulation induces acetylcholinesterase transcription in apoptotic HeLa cells** *CELLULAR AND MOLECULAR LIFE SCIENCES*
Gao, W., Zhu, H., Zhang, J., Zhang, X.
2009; 66 (13): 2181-2193
 - **Microtubule amplification in the assembly of mitotic spindle and the maturation of kinetochore fibers.** *Communicative & integrative biology*
Zhu, H., Fang, K., Fang, G.
2009; 2 (3): 208-210
 - **Mechanism, Function and Regulation of Microtubule-Dependent Microtubule Amplification in Mitosis** *MOLECULES AND CELLS*
Zhu, H., Fang, K., Fang, G.
2009; 27 (1): 1-3
 - **FAM29A promotes microtubule amplification via recruitment of the NEDD1-gamma-tubulin complex to the mitotic spindle** *JOURNAL OF CELL BIOLOGY*
Zhu, H., Coppinger, J. A., Jang, C., Yates, J. R., Fang, G.
2008; 183 (5): 835-848
 - **The CCAAT-binding factor CBF/NF-Y regulates the human acetylcholinesterase promoter activity during calcium ionophore A23187-induced cell apoptosis** *BIOCHIMICA ET BIOPHYSICA ACTA-GENERAL SUBJECTS*
Zhu, H., Gao, W., Shi, Y., Zhang, X.
2007; 1770 (10): 1475-1482
 - **Calcineurin mediates acetylcholinesterase expression during calcium ionophore A23187-induced HeLa cell apoptosis** *BIOCHIMICA ET BIOPHYSICA ACTA-MOLECULAR CELL RESEARCH*
Zhu, H., Gao, W., Jiang, H., Wu, J., Shi, Y., Zhang, X.
2007; 1773 (4): 593-602
 - **Nerve growth factor prevents the apoptosis-associated increase in acetylcholinesterase activity after hydrogen peroxide treatment by activating Akt** *ACTA BIOCHIMICA ET BIOPHYSICA SINICA*
Jiang, H., Zhang, J., Zhu, H., Li, H., Zhang, X.
2007; 39 (1): 46-56
 - **Regulation of acetylcholinesterase expression by calcium signaling during calcium ionophore A23187-and thapsigargin-induced apoptosis** *INTERNATIONAL JOURNAL OF BIOCHEMISTRY & CELL BIOLOGY*
Zhu, H., Gao, W., Jiang, H., Jin, Q., Shi, Y., Tsim, K. W., Zhang, X.
2007; 39 (1): 93-108