

## 上海市自然科学奖公示材料

项目名称：颅颌面畸形等骨骼疾病遗传因素的鉴定及其机制研究

代表性论文目录：

1. Lijun Wang, Xiuling You, Sutada Lotinun, Lingli Zhang, Nan Wu, **Weiguo Zou\***. Mechanical sensing protein PIEZO1 regulates bone homeostasis via osteoblast-osteoclast crosstalk. *Nature Communications*. 2020, 11(1): 282.
2. Jinlong Suo#, Xue Feng#, Jiayi Li, Jinghui Wang, Zuoyun Wang\*, Lei Zhang\*, **Weiguo Zou\***. VGLL4 promotes osteoblast differentiation by antagonizing TEADs-inhibited RUNX2 transcription. *Science Advances*. 2020, 6(43): eaba4147.
3. Zhan Xu, Matthew B. Greenblatt, Guang Yan, Heng Feng, Jun Sun, Sutada Lotinun, Nicholas Brady, Roland Baron, Laurie H. Glimcher, **Weiguo Zou\***. SMURF2 regulates bone homeostasis by disrupting SMAD3 interaction with vitamin D receptor in osteoblasts. *Nature Communications* 2017, 8: 14570.
4. Qinggang Dai, Zhan Xu, Xuhui Ma, Ningning Niu, Siru Zhou, Furong Xie, Lingyong Jiang, Jun Wang\*, **Weiguo Zou\***. mTOR/Raptor signaling is critical for skeletogenesis in mice through the regulation of Runx2 expression. *Cell Death Differentiation*. 2017, 24(11): 1886-1899.
5. Rui Shao#, Jia Liu#, Guang Yan, Jinfang Zhang, Yujiao Han, Jianfeng Guo, Zhan Xu, Zhu Yuan, Jiankang Liu, Marcos Malumbres, Lixin Wan\*, Wenyi Wei\*, **Weiguo Zou\***. Cdh1 regulates craniofacial development via APC-dependent ubiquitination and activation of Goosecoid. *Cell Research*. 2016, 26: 699-712.

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提名等级：一等奖