

ZHOU Hong (M.D.)

Academic qualifications:

- 1979-1983: B. Med. Ningxia Medical University, China
1987-1992: M.D. The University of Melbourne, Australia

Previous academic positions held:

- 1992-1996: NH&MRC Research Officer, Department of Medicine, The University of Melbourne, St. Vincent's Hospital, Australia
1996-2002: NH&MRC Senior Research Officer, Department of Medicine, The University of Melbourne, St. Vincent's Hospital, Australia
2004-2008: Senior Research Fellow, Bone Research Program, ANZAC Research Institute, University of Sydney, Australia
2009-2015: Associate Professor, Principal Research Fellow, ANZAC Research Institute, University of Sydney, Australia

Present academic position:

- 2008-Present: Head, Molecular Bone Biology Laboratory, Bone Research Program, ANZAC Research Institute, University of Sydney, Australia
2015-Present: Professor, Senior Principal Research Fellow, ANZAC Research Institute, Concord Clinical School, University of Sydney, Australia

Previous relevant research work:

Extensive experience in the cell and molecular biology of musculoskeletal tissues, glucocorticoid signalling and animal models of bone and joint pathology

Publication records:

Section A-Five most representative publications in the recent five years (* Corresponding Author)

1. Kim S, Foong D, Cooper MS, Seibel MJ, **Zhou H***. Comparison of blood sampling methods for plasma corticosterone measurements in mice associated with minimal stress-related artefacts. *Steroids* 135:69-72, 2018
2. Sattler J, Tu J, Stoner S, Buttgerit F, Seibel MJ, **Zhou H***, Cooper MS. Role of 11 β -HSD type 1 in Abnormal HPA axis activity during immune-mediated arthritis. *Endocr Connect* 7:385-394, 2018
3. Yu J, Lv Y, Di W, Liu J, Kong X, Di W, Sheng Y, Huang M, Lv S, Qi H, Gao M, Liang H, Kim S, Fu Z, **Zhou H***, Ding G. MiR-27b-3p Regulation in Browning of Human Visceral Adipose Related to Central Obesity. *Obesity* 26:387-396, 2018
4. Henneicke H, Li J, Kim S, Gasparini SJ, Seibel MJ, **Zhou H***. Chronic Mild Stress Causes Bone Loss via an Osteoblast-Specific Glucocorticoid-Dependent Mechanism. *Endocrinology* 158: 1939-1950, 2017
5. Tu J, Zhang Y, Kim S, Wiebe E, Spies CM, Buttgerit F, Cooper MS, Seibel MJ, **Zhou H***. Transgenic Disruption of Glucocorticoid Signaling in Osteoblasts Attenuates Joint Inflammation in Collagen Antibody-Induced Arthritis. *Am J Pathol* 186: 1293-

1301, 2016

Section B - Five representative publications beyond the recent five-year period with the latest publication entered first

6. Henneicke H, Herrmann M, Kalak R, Brennan TC, Heinevetter U, oura N, Day RE, Huscher D, Buttgerit F, Dunstan CR, Seibel MJ, **Zhou H***. Corticosterone selectively targets endo-cortical surfaces by an osteoblast-dependent mechanism. *Bone* 49: 733-742, 2011
7. Simanainen U, Lampinen A, Henneicke H, Brennan T, Harwood TD, Herrmann M, Seibel MJ, Handelsman DJ and **Zhou H*** Long-term corticosterone treatment induced lobe-specific pathology in mouse prostate. *Prostate* 71: 289-297, 2011
8. Weber AJ, Li G, Kalak R, Street J, Buttgerit F, Dunstan CR, Seibel MJ and **Zhou H*** Osteoblast-targeted Disruption of Glucocorticoid Signalling does not delay intramembranous bone healing. *Steroids* 75: 282-286, 2010 (IF 2.588).
9. Mak W, Shao X, Dunstan CR, Seibel MJ, **Zhou H***. Biphasic glucocorticoid-dependent regulation of Wnt expression and its inhibitors in mature osteoblastic cells. *Calcif Tissue Int.* 85: 538-545, 2009
10. **Zhou H**, Mak W, Kalak R, Street J, Fong-Yee C, Zheng Y, Dunstan CR and Seibel MJ. Glucocorticoid signalling through osteoblasts is essential for cranial skeletal development. *Development* 136: 427-436, 2009.

Funded Projects

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| APP1143980 Zhou, Seibel, Cooper | The Role of Endogenous Glucocorticoid in the Pathogenesis of Osteoarthritis. POS: 2018 – 2020; \$ 587,697 |
| 1101879 Cooper, Zhou, Seibel, Swarbrick, Lee, Stuart | “Age-Related Changes in Body Composition and Fuel Metabolism: The Role of Glucocorticoid Signalling in Osteoblasts” POS: 2016 – 2019; \$ 820,528 |