



## CURRICULUM VITAE of Dr. Guan Daogang

**Name:** Guan Daogang

### Academic qualifications:

2001-2005: B.Sc, Department of Biology, Henan Normal University, Henan, China

2005-2011: Ph.D. School of life science, SUN YAT-SEN University, Guangzhou, China

### Present academic position:

2016/09 - Present, Research Assistant professor, School of Chinese Medicine, Hong Kong Baptist University

### Published Papers

1. Yan B#, **Guan D#** (co-first author), Wang C, Wang J, He B, Qin J, Boheler KR, Lu A, Zhang G, Zhu H. An integrative method to decode regulatory logics in gene transcription. *Nat Commun.* 2017.
2. **Guan D**, Yan B, Hua J, Christoph Thieme C, Zhu H, Zhao Z, Kragler F\*, Xia Y\*, Zhang S\*. PlaMoM: A comprehensive database compiles plant mobile macromolecules. *Nucleic Acids Res* 2016.
3. **Guan D**, Shao J, Zhao Z, Wang P, Qin J, Deng Y, Boheler KR, Wang J, Yan B\*: PTHGRN: unraveling post-translational hierarchical gene regulatory networks using PPI, ChIP-seq and gene expression data. *Nucleic Acids Res* 2014, **42**(Web Server issue):W130-136.
4. **Guan D**, Shao J, Deng Y, Wang P, Zhao Z, Liang Y, Wang J, Yan B\*: CMGRN: a web server for constructing multilevel gene regulatory networks using ChIP-seq and gene expression data. *Bioinformatics* 2014.
5. **Guan DG**, Liao JY, Qu ZH, Zhang Y, Qu LH\*: mirExplorer: detecting microRNAs from genome and next generation sequencing data using the AdaBoost method with transition probability matrix and combined features. *RNA biology.* 2011, 8(5):922-934.
6. Zhang Z#, Li J#, **Guan D#** (Co-first author), Liang C#, Zhuo Z, Liu J, Lu A, Zhang G, Zhang B. A newly identified lncRNA MAR1 acts as a miR-487b sponge to promote skeletal muscle differentiation and regeneration. *Journal of Cachexia, Sarcopenia and Muscle*, 2018
7. Liang C#, Peng S#, Li J#, Lu J#, **Guan D#** (Co-first author), Jiang F#, Lu Cheng, Li F, He X, Zhu H, Au D, Yang D, Zhang B, Lu A, Zhang G. Inhibition of osteoblastic Smurf1 promotes bone formation in mouse models of distinctive age2 related osteoporosis. *Nature Communications*, 2018
8. Ho VW#, Wong MK#, An X#, **Guan D#** (Co-first author), Shao J, Ng HC, Ren X, He K, Liao J, Ang Y, Chen L, Huang X, Yan B, Xia Y, Chan LL, Chow KL, Yan H, Zhao Z\*: Systems-level quantification of division timing reveals a common genetic architecture controlling asynchrony and fate asymmetry. *Mol Syst Biol* 2015, 11(6):814.
9. Wang C, Ren Q, Chen X, Song Z, Ning Z, Gan J, Ma X, Liang D, **Guan D\***(Co-corresponding author), Liu Z\*, Lu A\*. System Pharmacology-Based Strategy to Decode the Synergistic Mechanism of Zhi-zhu Wan for Functional Dyspepsia. *Front Pharmacol.* 2018, 9, 841.
10. Chen X, Zheng C, Wang C, Guo Z, Gao S, Ning Z, Huang C, Lu C, Fu Y, **Guan D\***(Co-corresponding author), Lu A\*, Wang Y\*. Systems-Mapping of Herbal Effects on Complex Diseases Using the Network-Perturbation Signatures. *Front Pharmacol.* 2018 Oct. 9, 1174.

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