WANG Qianwen

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Education

PHD | THE CHINESE UNIVERSITY OF HONG KONG | 2015.08 - 2021.02

- Major: Molecular Biotechnology

BACHELOR | NORTHEASTERN UNIVERSITY | 2010.09 - 2014.06

- Major: Computer Science

Research Experience

LECTURER | SOUTHERN MEDICAL UNIVERSITY | 2022.06 – NOW

- Department of Bioinformatics, School of Basic Medical Sciences

RESEARCH ASSOCIATE | THE CHINESE UNIVERSITY OF HONG KONG | 2021.04 – 2022.05

- School of Life Sciences

RESEARCH ASSISTANT | THE CHINESE UNIVERSITY OF HONG KONG (SHENZHEN RESEARCH INSTITUTE) | 2014.10 - 2015.05

- School of Life Sciences

Teaching Experience

LECTURER | SOUTHERN MEDICAL UNIVERSITY | 2022.06 – NOW

- Department of Bioinformatics, School of Basic Medical Sciences

TEACHING ASSISTANT | THE CHINESE UNIVERSITY OF HONG KONG | 2015.08 – 2019.08

- Department of Sciences, School of Life Sciences

GRADUATE RESEARCH CONSULTANTS (GRC) | UNITED COLLEGE, THE CHINESE UNIVERSITY OF HONG KONG | 2016.08 – 2017.08

- United College

Skills & Abilities

PROGRAMMING

- Bash/Shell, R, Python, MySQL, C++, HTML5,

MUTIL-OMICS

- Bioinformatics and genomics analysis of epigenetics (including WGBS, ChIP-seq, smRNA-seq, ATAC-seq, Nanopore Direct RNA-seq and RNA-seq)

LANGUAGES

- Fluent in Chinese and English

Honors and Awards

Postgraduate students publication award | School of Life Sciences, CUHK | 2020-2021

Oral presentation | 2020-2021 Science Faculty Postgraduate Research Day, CUHK | Jan 2021

Best Presentation Award |SKLA/ IPMBAB Seminar Series 2020, CUHK | Nov 2020

Winner of The Young Scholar Competition | WUN Symposium cum Research Summit on Impacts of Grain Legume Research and Development in Developing Countries, CUHK | Jun 2017

Publications

10. Xiao Z[#], **Wang Q**[#], Li M, Huang M, Wang Z, Xie M, Varshney RK, Nguyen HT, Chan T, Lam H[*]. 2022. Wildsoydb DataHub : an online platform for accessing soybean multiomic datasets across multiple reference genomes. *Plant Physiology* (accpeted)

9. Feng T[#], Wu T[#], Zhang, Y[#] Zhou L[#], Liu S[#], Li L, Li M, Hu E, **Wang Q**, Fu X, Zhan L, Xie Z, Xie W, Huang X, Shang X & Yu G, 2022, Stemness Analysis Uncovers That The Peroxisome Proliferator-Activated Receptor Signaling Pathway Can Mediate Fatty Acid Homeostasis In Sorafenib-Resistant Hepatocellular Carcinoma Cells, *Frontiers in Oncology* 12(July), 1–14

8. Zhou L[#], Feng T[#], Xu S, Gao F, Lam TT, **Wang Q**, Wu T, Huang H, Zhan L, Li L, Guan Y, Dai Z[*], Yu G[*]. 2022. ggmsa: a visual exploration tool for multiple sequence alignment and associated data. *Briefings in Bioinformatics* 1–12

7. Huang M, Zhang L, Zhou L, Yung WS, Wang Z, Xiao Z, **Wang Q**, Wang X, Li M, Lam H[*]. 2022. Identification of the accessible chromatin regions in six tissues in the soybean. *Genomics* 114(3), 110364.

6. Yung W[#], **Wang Q**[#], Huang M, Wong F-L, Liu A, Ng M, Li K, Sze C, Li M, Lam H[*]. 2022. Priming-induced alterations in histone modifications modulate transcriptional responses in soybean under salt stress. *The Plant Journal* 190(6): 1575-1590

5. **Wang Q**[#], Bao X[#], Chen S[#], Zhong H[#], Liu Y, Zhang L, Xia Y, Kragler F, Luo M, Li XD, *et al.* 2021. AtHDA6 functions as an H3K18ac eraser to maintain pericentromeric CHG methylation in Arabidopsis thaliana. *Nucleic Acids Research* 490: 9755–9767

4. Yung W, Li M, Sze C, **Wang Q**, Lam H[*]. 2021. Histone modifications and chromatin remodelling in plants in response to salt stress. *Physiologia Plantarum*: ppl.13467.

3. Huang M, Zhang L, Zhou L, Wang M, Yung WS, Wang Z, Duan S, Xiao Z, **Wang Q**, Wang X, *et al.* 2021. An expedient survey and characterization of the soybean JAGGED 1 (GmJAG1) transcription factor binding preference in the soybean genome by modified ChIPmentation on soybean protoplasts. *Genomics* 113: 344–355.

2. **Wang Q**[#], Yung W[#], Wang Z, Lam H[*]. 2020. The histone modification H3K4me3 marks functional genes in soybean nodules. *Genomics* 112: 5282–5294.

1. Liu A[#], Xiao Z[#], Li M, Wong L, Yung W, Ku Y, **Wang Q**, Wang X, Xie M, Yim AK, *et al.* 2019. Transcriptomic reprogramming in soybean seedlings under salt stress. *Plant, Cell & Environment* 42:

98–114.