Wen-Cong Huang

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EDUCATION

Sept 2018 – Jun 2021 **M. Sc.** in Complex System and Data Science at Shenzhen University
Sept 2014 – Jun 2018 **B. Sc.** in Biological Science and Minor in Chemistry at Shenzhen University

EXPERIENCE & ACTIVITIES

Sept 2018 – Present ***Master project*** entitled "*Comparative genomic analysis reveals metabolic flexibility of Woesearchaeota*"

- Investigated ecological distribution of Woesearchaeota using Earth Microbiome Project dataset
- Performed phylogenetic analysis for Woesearchaeota genomes, reconstructed their metabolic pathways and inferred gene family evolution history
- Responsible for collecting samples, extracting nucleic acids, analyzing and interpreting data, and writing manuscripts

Oct 2019 ***Attendance,*** The International Workshop on Geo-Omics of Archaea

Dec 2017 ***Presentation,*** The 21st Chinese National Symposium on Environmental Microbiology, Shantou, China. Presentation entitled "*Dynamics of microbial community in the bioreactor for bisphenol S removal*"

Feb 2017 – Jun 2018 ***B. Sc. Thesis*** entitled "*Dynamics of microbial community in the bioreactor for bisphenol S removal*"

- Participated in setting up of bioreactors
- Responsible for collecting samples, extracting nucleic acids, analyzing, interpreting amplicon sequencing data and writing manuscripts

Sept 2015 – Dec 2016 ***Innovation and development funding for undergraduate*** for research project entitled "*Isolation of bacterial strains for biodegradation of decabromodiphenyl ether*" (¥ 2000)

- Isolation of 2 strains able to grow using decabromodiphenyl ether as the sole carbon source
- Collected sediment samples, processed samples and designed experimental methodology for isolation

Sept 2015 – Present ***Sampling Experience***

- Sediment sampling, Futian Nature Reserve (Shenzhen, China), multiple times
- Sediment sampling, Rongcheng Nation Swan Nature Reserve (Weihai, China), two times

AWARDS

2021	Outstanding graduate student of Guangdong Province
2021	Outstanding graduate of Shenzhen University
2018-2019	Academic Excellence Scholarship
2018	The best 100 undergraduate theses of the year 2018
2015	National Encouragement Scholarship
2015 – 2018	Outstanding Innovative Talent Scholarship

PUBLICATIONS

***shared first authors**

2021

W-C Huang*, Y Liu*, X Zhang, C-J Zhang, D Zhou, S Zheng, W Xu, Z-H Luo, F Liu and M Li. *Comparative genomic analysis reveals metabolic flexibility of Woesearchaeota and a tendency toward independent lifestyle*. Nature Communications 12, 1-14 (2021). https://doi.org/10.1016/j.ibiod.2021.105277.

Y Liu*, KS Makarova*, **W-C Huang***, YI Wolf, A Nikolskaya, X Zhang, M Cai, C-J Zhang, W Xu, Z Luo, L Cheng, EV Koonin, M Li. *Expanded diversity of Asgard archaea and their relationships with eukaryotes*. Nature 593, 553–557 (2021). https://doi.org/10.1038/s41586-021-03494-3.

M Cai, T Richter-Heitmann, X Yin, **W-C Huang**, Y Yang, C Zhang, C Duan, J Pan, Y Liu, M Friedrich, M Li. *Ecological features and global distribution of Asgard archaea.* Science of The Total Environment 758, 143581. (2021). https://doi.org/10.1016/j.scitotenv.2020.143581.

L Liu, **W-C Huang**, Y Liu, M Li. *Diversity of cellulolytic microorganisms and microbial cellulases.* International Biodeterioration & Biodegradation 163, 105277 (2021). https://doi.org/10.1016/j.ibiod.2021.105277.

2020

W-C Huang, Y Hu, G Zhang, M Li. *Comparative genomic analysis reveals metabolic diversity of different Paenibacillus groups*. Applied Microbiology and Biotechnology 104, 10133-10143 (2020). https://doi.org/10.1007/s00253-020-10984-3.

S Zhang, Z Liu, **W-C Huang**, Y Liu, M Li. *Research progress on eukaryotic-like ESCRT in archaea* [In Chinese]. Acta Microbiologica Sinica 60, 1304-1317 (2020). https://doi.org/10.13343/j.cnki.wsxb.202000.

2019

W-C Huang*, X Jia*, J Li, M Li. *Dynamics of microbial community in the bioreactor for bisphenol S removal*. Science of The Total Environment 662, 15–21 (2019). https://doi.org/10.1016/j.scitotenv.2019.01.173.

Y Gu, **W-C Huang**, J Li, M Li. *Advances in microbial degradation of polybrominated diphenyl ethers (PBDEs)* [In Chinese]. Chinese Journal of Biotechnology 35, 2121-2132 (2019). https://doi.org/10.13345/j.cjb.19018.