

Personal Information

Name: Wen Chen

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Date of Birth: Sept. 1989

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ResearchGate: <https://www.researchgate.net/profile/Wen-Chen-27>

Research Experience

In my previous work, by analyzing public RNA-Seq data, I did a comprehensive analysis and function annotation of zebrafish lncRNAs (<http://zflnc.biochen.com>). My most recent work is "GCEN: an easy toolkit of Gene Co-Expression Network analysis for lncRNA annotation" (<https://www.biochen.com/gcen>). I am familiar with the analysis of high-throughput biological data, software and database development, machine learning, and so on.

Education

Sept. 2014 — present

Ph.D. student in Biochemistry and Molecular Biology

School of Life Sciences, Hunan Normal University, Changsha, China

Advisor: Prof. Shuanglin Xiang

Thesis: Comprehensive analysis of zebrafish lncRNAs uncovers its roles in development

Feb. 2015 — Oct. 2018

Joint Student

Xishuangbanna Tropical Botanical Garden, Chinese Academy of Sciences, Kunming, China

Supervisor: Prof. Changning Liu

Sept. 2007 — June 2011

B.S. in Biology Science

School of Life Sciences, Hunan Normal University, Changsha, China

Industrial Experience

Apr. 2011 — Mar. 2012

Laboratory Technician

BGI-Wuhan, Wuhan, China

Featured Publications

1. **Wen Chen**[#], Guoqiang Zhang[#], Jing Li[#], Xuan Zhang, Shulan Huang, Shuanglin Xiang, Xiang Hu^{*}, Changning Liu^{*}. CRISPRlnc: a manually curated database of validated sgRNAs for lncRNAs. *Nucleic Acids Research* 2019; 47(D1):D63-D68.
2. **Wen Chen**[#], Xuan Zhang[#], Jing Li[#], Shulan Huang, Shuanglin Xiang, Xiang Hu^{*}, Changning Liu^{*}. Comprehensive analysis of coding-lncRNA gene co-expression network uncovers conserved functional lncRNAs in zebrafish. *BMC Genomics* 2018; 19(Suppl 2):112.

Academic Activities

- Journal Reviewer Bioinformatics, Scientific Reports, Frontiers in Genetics, Egyptian Journal of Medical Human Genetics
- Conference Oral Presentation “Comprehensive analysis of coding-lncRNA gene co-expression network uncovers conserved functional lncRNAs in zebrafish”, The Sixteenth Asia Pacific Bioinformatics Conference (APBC 2018), Yokohama, Japan, Jan. 2018

Full Publications

1. **Wen Chen**[#], Jing Li[#], Shulan Huang[#], Xiaodeng Li, Xuan Zhan, Xiang Hu, Shuanglin Xiang^{*}, Changning Liu^{*}. GCEN: an easy toolkit of Gene Co-Expression Network analysis for lncRNAs annotation. In submitted.
2. Xiaoyang Gao[#], Xuan Zhang[#], **Wen Chen**[#], Jing Li, Wenjing Yang, Xingwang Zhang, Shengying Li, Changning Liu^{*}. Transcriptome analysis of *Paris polyphylla* var. *yunnanensis* illuminates the biosynthesis and accumulation of steroidal saponins in rhizomes and leaves. *Phytochemistry* 2020; 178:112460.
3. Jun Wang[#], Xuan Zhang[#], **Wen Chen**[#], Xiang Hu, Jing Li^{*}, Changning Liu^{*}. Regulatory roles of long non-coding RNAs implicated in cancer hallmarks. *International Journal of Cancer* 2020; 146(4):906-916.
4. Ye Xiao, Shulan Huang, Feng Qiu, Xiaofeng Ding, Yi Sun, Chenxi Wei, Xiang Hu, Ke Wei, Shengwen Long, Lina Xie, Yu Xun, **Wen Chen**, Zhijian Zhang, Ning Liu^{*}, Shuanglin Xiang^{*}. Tumor necrosis factor α -induced protein 1 as a novel tumor suppressor through selective downregulation of CSNK2B blocks nuclear factor- κ B activation in hepatocellular carcinoma. *EBioMedicine* 2020; 51:102603.
5. Xuan Zhang[#], Bang-Zhen Pan[#], Maosheng Chen, **Wen Chen**, Jing Li, Zeng-Fu Xu^{*}, Changning Liu^{*}. JCDB: a comprehensive knowledge base for *Jatropha curcas*, an emerging model for woody energy plants. *BMC Genomics* 2019; 20(Suppl 9):958.
6. **Wen Chen**[#], Guoqiang Zhang[#], Jing Li[#], Xuan Zhang, Shulan Huang, Shuanglin Xiang, Xiang Hu^{*}, Changning Liu^{*}. CRISPRlnc: a manually curated database of validated sgRNAs for lncRNAs. *Nucleic Acids Research* 2019; 47(D1):D63-D68.
7. Xuan Zhang[#], Jun Wang[#], Jing Li[#], **Wen Chen**, Changning Liu^{*}. CRLncRC: a novel machine learning method for cancer-related long noncoding RNA identification based on integrated features. *BMC Medical Genomics* 2018; 11(Suppl 6):120.
8. Jun Wang[#], Xuan Zhang[#], **Wen Chen**[#], Jing Li^{*}, Changning Liu^{*}. CRLncRNA: a manually curated database of cancer-related long non-coding RNAs with experimental proof of functions on clinicopathological and molecular features. *BMC Medical Genomics* 2018; 11(Suppl 6):114.
9. Xiang Hu[#], **Wen Chen**[#], Jing Li[#], Shulan Huang, Xuling Xu, Xuan Zhang, Shuanglin Xiang^{*}, Changning Liu^{*}. ZFLNC: a comprehensive and well annotated database for zebrafish lncRNA. *Database* 2018; 2018: bay114.
10. **Wen Chen**[#], Xuan Zhang[#], Jing Li[#], Shulan Huang, Shuanglin Xiang, Xiang Hu^{*}, Changning Liu^{*}. Comprehensive analysis of coding-lncRNA gene co-expression network uncovers conserved functional lncRNAs in zebrafish. *BMC Genomics* 2018; 19(Suppl 2):112.
11. Shang Wang[#], **Wen Chen**[#], Kai Zhang[#], Peng Jiao, Lihua Mo, Xiaoxu Yang, Xiang Hu, Jian Zhang, Chenxi Wei^{*}, Shuanglin Xiang^{*}. Restriction-based Multiple-fragment Assembly Strategy to Avoid Random Mutation during Long cDNA Cloning. *Journal of Cancer* 2015; 6(7):632-635.

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