JIANNAN ZHANG

Assistant Research Fellow at Sichuan University. I am also employed as a Post-doctoral Fellow in Wang yajun Lab at Sichuan University.

I am broadly interested in Avian Physiology, Endocrinology and Metabolism, and Transgenesis in chicken.

RESEARCH EXPERIENCE

present | 2017

Assistant Research Fellow
Sichuan University
Sichuan University

- 2017-present, Assistant Research Fellow, The Collge of Life Sciences

2020 | 2017

Post-doctoral Fellow
Sichuan University
Sichuan University

EDUCATION

2017 | 2011

PhD., Cell Biology
Sichuan University
Sichuan, CN

2011 | 2007

B.S., National Base of Life Science & Biotechnology Education
Sichuan University
Sichuan, CN

TEACHING EXPERIENCE

2020 | 2019

发育生物学 (Developmental biology)
The Collge of Life Sciences
Sichuan University

- Undergraduate level class

GRANTS

2021 | 2020

垂体激素ACTH调控家鸡肝脏糖脂代谢的机制探究 (2020T130439)
主持, CNY ￥180,000, 中国博士后科学基金特别资助

2021 | 2019

多不饱和脂肪酸调控家鸡肝脏脂肪生成的机制解析（省重）(2019YJ0017)
主持, CNY ￥100,000, 四川省科学技术厅-应用基础研究

家鸡GPR120受体介导多不饱和脂肪酸对肝脏脂质代谢的调节效应探究 (31802056)
主持, CNY ￥300,000, 国家自然科学基金青年项目

PUBLICATIONS

CONTACT

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SKILLS

Wet-lab

- Molecular cloning
- Functional analysis
- IHC/ISH/FISH/Co-IP/Chip-Seq...
- Gene-editing with CRISPR/Cas9
- PGCs culture and Microinjection

Dry-lab

- RNA-Seq data analysis
- Single-cell data analysis
- Highly skilled in R and Bash.

Last updated on 2020-10-16.

2020

The Asp298Asn polymorphism of melanocortin-4 receptor (MC4R) in pigs: evidence for its potential effects on MC4R constitutive activity and cell surface expression

Animal Genetics. 2020, 51(5):694-706.

• **Zhang, J**[#]; Li, J[#]; Wu, C; Hu, Z; An, L; Wan, Y; Fang, C; Zhang, X; Li, J[*]; Wang, Y[*];
• Impact Factor = 2.841

Melanocortin Receptor 4 (MC4R) Signaling System in Nile Tilapia

International Journal of Molecular Sciences. 2020, 21(19):7036.

• Liu, Tianqiang; Deng, Yue; Zhang, Zheng; Cao, Baolong; Li, Jing; Sun, Caiyun; Hu, Zhixing; **Zhang, Jiannan**[*]; Li, Juan; Wang, Yajun[*];
• Impact Factor = 4.556

Characterization of a novel thyrotropin-releasing hormone receptor, TRHR3, in chickens

Poultry Science. 2020, 99(3):1643-1654.

• Li, Xiaoxiao[#]; Li, Zhengyang[#]; Deng, Yue; **Zhang, Jiannan**; Li, Juan[*]; Wang, Yajun[*];

Characterization of the neuropeptide FF (NPFF) gene in chickens: evidence for a single bioactive NPAF peptide encoded by the NPFF gene in birds

Domestic Animal Endocrinology. 2020, :106435.

• Chen, J[#]; Huang, S[#]; **Zhang, J**; Li, J[*]; Wang, Y[*];

2019

Arginine vasotocin (AVT)/mesotocin (MT) receptors in chickens: Evidence for the possible involvement of AVT-AVPR1 signaling in the regulation of oviposition and pituitary prolactin expression

General and Comparative Endocrinology. 2019, 281:91-104.

• Wu, Chao; Lv, Can; Wan, Yiping; Li, Xiaoxiao; **Zhang, Jiannan**[*]; Li, Juan; Wang, Yajun[*];

Regulation of Pituitary Cocaine-and Amphetamine-Regulated Transcript Expression and Secretion by Hypothalamic Gonadotropin-Releasing Hormone in Chickens

Frontiers in physiology. 2019, 10:.

• Mo, Chunheng; Lv, Can; Huang, Long; Li, Zhengyang; **Zhang, Jiannan**; Li, Juan[*]; Wang, Yajun[*];

Endothelins (EDN1, EDN2, EDN3) and their receptors (EDNRA, EDNRB, EDNRB2) in chickens: Functional analysis and tissue distribution

General and comparative endocrinology. 2019, 283:113231.

• Liu, Haikun; Luo, Qin; **Zhang, Jiannan**; Mo, Chunheng; Wang, Yajun[*]; Li, Juan[*];

Identification of a Novel Functional Corticotropin-Releasing Hormone (CRH2) in Chickens and Its Roles in Stimulating Pituitary TSHβ Expression and ACTH Secretion

Frontiers in Endocrinology. 2019, 10:595.

• Bu, Guixian[#]; Fan, Jie[#]; Yang, Ming; Lv, Can; Lin, Yin; Li, Jinxuan; Meng, Fengyan; Du, Xiaogang; Zeng, Xianyin[*]; **Zhang, Jiannan**; Juan Li; Yajun Wang[*]

2018

Characterization of the Apelin/Elabela Receptors (APLNR) in Chickens, Turtles, and Zebrafish: Identification of a Novel Apelin-Specific Receptor in Teleosts

Frontiers in endocrinology. 2018, 9:756.

• **Zhang, Jiannan**; Zhou, Yawei; Wu, Chenlei; Wan, Yiping; Fang, Chao; Li, Jing; Fang, Wenqian; Yi, Ran; Zhu, Guoqiang; Li, Juan*; Yajun Wang*

The orphan G protein-coupled receptor 25 (GPR25) is activated by Apelin and Apela in non-mammalian vertebrates

Biochemical and Biophysical Research Communications. 2018, 501(2):408-414.

• **Zhang, Jiannan**#; Wan, Yiping#; Fang, Chao; Chen, Junan; Ouyang, Wangan; Li, Juan*; Wang, Yajun*;

Characterization of neuromedin U (NMU), neuromedin S (NMS) and their receptors (NMUR1, NMUR2) in chickens

Peptides. 2018, 101:69-81.

• Wan, Yiping#; **Zhang, Jiannan**#; Fang, Chao; Chen, Junan; Li, Jing; Li, Juan*; Wu, Chenlei; Wang, Yajun*;

2017

The interaction of MC3R and MC4R with MRAP2, ACTH, α-MSH and AgRP in chickens

Journal of Endocrinology. 2017, 234(2):155-174.

• **Zhang, Jiannan**; Li, Xin; Zhou, Yawei; Cui, Lin; Li, Jing; Wu, Chenlei; Wan, Yiping; Li, Juan*; Wang, Yajun*;
• Impact Factor = 4.706

Molecular characterization of neuropeptide Y (NPY) receptors (Y1, Y4 and Y6) and investigation of the tissue expression of their ligands (NPY, PYY and PP) in chickens

General and comparative endocrinology. 2017, 240:46-60.

• Gao, Shunyu#; **Zhang, Jiannan**#; He, Chen; Meng, Fengyan; Bu, Guixian; Zhu, Guoqiang; Li, Juan*; Wang, Yajun*;

Characterization of melanin-concentrating hormone (MCH) and its receptor in chickens: Tissue expression, functional analysis, and fasting-induced up-regulation of hypothalamic MCH expression

Gene. 2017, 615:57-67.

• Cui, Lin; Lv, Can; **Zhang, Jiannan**; Mo, Chunheng; Lin, Dongliang; Li, Juan*; Wang, Yajun*;

2016

Molecular characterization of three NPY receptors (Y2, Y5 and Y7) in chickens: Gene structure, tissue expression, promoter identification, and functional analysis

General and Comparative Endocrinology. 2016, 236:24-34.

• He, Chen#; **Zhang, Jiannan**#; Gao, Shunyu; Meng, Fengyan; Bu, Guixian; Li, Juan*; Wang, Yajun*;

2014

Identification and characterization of the free fatty acid receptor 2 (FFA2) and a novel functional FFA2-like receptor (FFA2L) for short-chain fatty acids in pigs: Evidence for the existence of a duplicated FFA2 gene (FFA2L) in some mammalian species

Domestic animal endocrinology. 2014, 47:108-118. e1.

• **Zhang, J**; Cheng, S; Wang, Y*; Yu, X; Li, J*;

Synthesis and biological evaluation of novel benzamide derivatives as potent smoothened antagonists

Bioorganic & medicinal chemistry letters. 2014, 24(5):1426-1431.

• Wu, Tian-Ming; Wang, Dao-Cai; Xiang, Pu; **Zhang, Jian-Nan**; Sang, Ya-Xiong; Lin, Hong-Jun; Chen, Jie; Xie, Gang; Song, Hang; Zhao, Ying-Lan*;

Glucagon-like peptide (GCGL) is a novel potential TSH-releasing factor (TRF) in Chickens: I) Evidence for its potent and specific action on stimulating TSH mRNA expression and secretion in the pituitary

Endocrinology. 2014, 155(11):4568-4580.

• Huang, Guian; He, Chen; Meng, Fengyan; Li, Juan; **Zhang, Jiannan**; Wang, Yajun*;

CONFERENCE PRESENTATIONS

2017 **黑皮质素系统在家鸡能量平衡中的作用机理解析**
四川省细胞生物学会2017年度学术大会 Chengdu, CN

2011 **家鸡促甲状腺激素受体(cTSHR)的克隆、剪切变体鉴定及其功能分析**
第十六次全国动物遗传育种学术讨论会系列学术报告会 Yangzhou, CN