

# 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)

Undergraduate level class, 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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🐦 [Jiannan\\_scu](#)

🔗 [github.com/biozhangjn](https://github.com/biozhangjn)

🌐 [www.zhangjn.xyz](http://www.zhangjn.xyz)

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📞 (86) 13540012368

For more information, please contact me via email.

## 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.

Made with the R package  
[pagedown](#).

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. doi: [10.1111/age.12986](https://doi.org/10.1111/age.12986)  
 • **Zhang, J<sup>#</sup>**; Li, J<sup>#</sup>; Wu, C; Hu, Z; An, L; Wan, Y; Fang, C; Zhang, X; Li, J<sup>\*</sup>; Wang, Y<sup>\*</sup>;  
 • Impact Factor = 2.841
  
- **Melanocortin Receptor 4 (MC4R) Signaling System in Nile Tilapia**  
**International Journal of Molecular Sciences.** 2020, 21(19):7036. doi: [10.3390/ijms21197036](https://doi.org/10.3390/ijms21197036)  
 • Liu, Tianqiang; Deng, Yue; Zhang, Zheng; Cao, Baolong; Li, Jing; Sun, Caiyun; Hu, Zhixing; **Zhang, Jiannan<sup>\*</sup>**;  
 Li, Juan; Wang, Yajun<sup>\*</sup>;  
 • Impact Factor = 4.556
  
- **Characterization of a novel thyrotropin-releasing hormone receptor, TRHR3, in chickens**  
**Poultry Science.** 2020, 99(3):1643-1654. doi: [10.1016/j.psj.2019.10.062](https://doi.org/10.1016/j.psj.2019.10.062)  
 • Li, Xiaoxiao<sup>#</sup>; Li, Zhengyang<sup>#</sup>; Deng, Yue; **Zhang, Jiannan**; Li, Juan<sup>\*</sup>; Wang, Yajun<sup>\*</sup>;
  
- **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. doi: [10.1016/j.domaniend.2020.106435](https://doi.org/10.1016/j.domaniend.2020.106435)  
 • Chen, J<sup>#</sup>; Huang, S<sup>#</sup>; **Zhang, J**; Li, J<sup>\*</sup>; Wang, Y<sup>\*</sup>;



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. doi: [10.1016/j.ygcen.2019.05.013](https://doi.org/10.1016/j.ygcen.2019.05.013)  
 • Wu, Chao; Lv, Can; Wan, Yiping; Li, Xiaoxiao; **Zhang, Jiannan<sup>\*</sup>**; Li, Juan; Wang, Yajun<sup>\*</sup>;
  
- **Regulation of Pituitary Cocaine-and Amphetamine-Regulated Transcript Expression and Secretion by Hypothalamic Gonadotropin-Releasing Hormone in Chickens**  
**Frontiers in physiology.** 2019, 10:. doi: [10.3389/fphys.2019.00882](https://doi.org/10.3389/fphys.2019.00882)  
 • Mo, Chunheng; Lv, Can; Huang, Long; Li, Zhengyang; **Zhang, Jiannan**; Li, Juan<sup>\*</sup>; Wang, Yajun<sup>\*</sup>;
  
- **Endothelins (EDN1, EDN2, EDN3) and their receptors (EDNRA, EDNRB, EDNRB2) in chickens: Functional analysis and tissue distribution**  
**General and comparative endocrinology.** 2019, 283:113231. doi: [10.1016/j.ygcen.2019.113231](https://doi.org/10.1016/j.ygcen.2019.113231)  
 • Liu, Haikun; Luo, Qin; **Zhang, Jiannan**; Mo, Chunheng; Wang, Yajun<sup>\*</sup>; Li, Juan<sup>\*</sup>;
  
- **Identification of a Novel Functional Corticotropin-Releasing Hormone (CRH2) in Chickens and Its Roles in Stimulating Pituitary TSH $\beta$  Expression and ACTH Secretion**  
**Frontiers in Endocrinology.** 2019, 10:595. doi: [10.3389/fendo.2019.00595](https://doi.org/10.3389/fendo.2019.00595)  
 • Bu, Guixian<sup>#</sup>; Fan, Jie<sup>#</sup>; Yang, Ming; Lv, Can; Lin, Yin; Li, Jinxuan; Meng, Fengyan; Du, Xiaogang; Zeng, Xianyin<sup>\*</sup>; **Zhang, Jiannan**; Juan Li; Yajun Wang<sup>\*</sup>

- 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. doi: [10.3389/fendo.2018.00756](https://doi.org/10.3389/fendo.2018.00756)  
• Zhang, Jiannan; Zhou, Yawei; Wu, Chenlei; Wan, Yiping; Fang, Chao; Li, Jing; Fang, Wenqian; Yi, Ran; Zhu, Guoqiang; Li, Juan<sup>\*</sup>; Yajun Wang<sup>\*</sup>
  - **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. doi: [10.1016/j.bbrc.2018.04.229](https://doi.org/10.1016/j.bbrc.2018.04.229)  
• Zhang, Jiannan<sup>#</sup>; Wan, Yiping<sup>#</sup>; Fang, Chao; Chen, Junan; Ouyang, Wangan; Li, Juan<sup>\*</sup>; Wang, Yajun<sup>\*</sup>;
  - **Characterization of neuromedin U (NMU), neuromedin S (NMS) and their receptors (NMUR1, NMUR2) in chickens**  
*Peptides*. 2018, 101:69-81. doi: [10.1016/j.peptides.2017.12.022](https://doi.org/10.1016/j.peptides.2017.12.022)  
• Wan, Yiping<sup>#</sup>; Zhang, Jiannan<sup>#</sup>; Fang, Chao; Chen, Junan; Li, Jing; Li, Juan<sup>\*</sup>; Wu, Chenlei; Wang, Yajun<sup>\*</sup>;
- 2017
- **The interaction of MC3R and MC4R with MRAP2, ACTH,  $\alpha$ -MSH and AgRP in chickens**  
*Journal of Endocrinology*. 2017, 234(2):155-174. doi: [10.1530/JOE-17-0131](https://doi.org/10.1530/JOE-17-0131)  
• Zhang, Jiannan; Li, Xin; Zhou, Yawei; Cui, Lin; Li, Jing; Wu, Chenlei; Wan, Yiping; Li, Juan<sup>\*</sup>; Wang, Yajun<sup>\*</sup>;  
• 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. doi: [10.1016/j.ygcen.2016.09.005](https://doi.org/10.1016/j.ygcen.2016.09.005)  
• Gao, Shunyu<sup>#</sup>; Zhang, Jiannan<sup>#</sup>; He, Chen; Meng, Fengyan; Bu, Guixian; Zhu, Guoqiang; Li, Juan<sup>\*</sup>; Wang, Yajun<sup>\*</sup>;
  - **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. doi: [10.1016/j.gene.2017.03.009](https://doi.org/10.1016/j.gene.2017.03.009)  
• Cui, Lin; Lv, Can; Zhang, Jiannan; Mo, Chunheng; Lin, Dongliang; Li, Juan<sup>\*</sup>; Wang, Yajun<sup>\*</sup>;
- 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. doi: [10.1016/j.ygcen.2016.04.019](https://doi.org/10.1016/j.ygcen.2016.04.019)  
• He, Chen<sup>#</sup>; Zhang, Jiannan<sup>#</sup>; Gao, Shunyu; Meng, Fengyan; Bu, Guixian; Li, Juan<sup>\*</sup>; Wang, Yajun<sup>\*</sup>;
- 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. doi: [10.1016/j.domaniend.2013.10.004](https://doi.org/10.1016/j.domaniend.2013.10.004)  
• Zhang, J; Cheng, S; Wang, Y<sup>\*</sup>; Yu, X; Li, J<sup>\*</sup>;

- **Synthesis and biological evaluation of novel benzamide derivatives as potent smoothened antagonists**  
**Bioorganic & medicinal chemistry letters**. 2014, 24(5):1426-1431. doi: [10.1016/j.bmcl.2014.01.006](https://doi.org/10.1016/j.bmcl.2014.01.006)  
 • 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<sup>\*</sup>;
- **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. doi: [10.1210/en.2014-1331](https://doi.org/10.1210/en.2014-1331)  
 • Huang, Guian; He, Chen; Meng, Fengyan; Li, Juan; **Zhang, Jiannan**; Wang, Yajun<sup>\*</sup>;

## CONFERENCE PRESENTATIONS

- |      |  |  |
|------|--|--|
| 2017 | <ul style="list-style-type: none"> <li>● <b>黑皮质素系统在家鸡能量平衡中的作用机理解析</b><br/>           四川省细胞生物学会2017年度学术大会</li> </ul>                  |  Chengdu, CN  |
| 2011 | <ul style="list-style-type: none"> <li>● <b>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</b><br/>           第十六次全国动物遗传育种学术讨论会系列学术报告会</li> </ul> |  Yangzhou, CN |