JIANNAN ZHANG (张剑南)

Associate Research Fellow at Sichuan University. I am also employed as a Post-doctoral Fellow in Wang yajun (王亚军) Lab at Sichuan University (四川大学).

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

RESEARCH EXPERIENCE

present | 2021 **Associate Research Fellow**
Sichuan University — Sichuan University
· 2021-present, Associate Research Fellow, The College of Life Sciences

present | 2017 **Post-doctoral Fellow**
Sichuan University — Sichuan University

2021 | 2017 **Assistant Research Fellow**
Sichuan University — Sichuan University
· 2017-2021, Assistant Research Fellow, The College of Life Sciences

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

2021 **Cell biology (细胞生物学)**
Undergraduate level class, The College of Life Sciences — Sichuan University
· Undergraduate level class

2021 | 2019 **Developmental biology (发育生物学)**
Undergraduate level class, The College 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

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
- scRNA-Seq data analysis
- Highly skilled in R and Bash.

*Made with the R package **pagedown**.*

Last updated on 2021-12-26.

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

2021

- **Neuropeptide S (NPS) and its receptor (NPSR1) in chickens: cloning, tissue expression, and functional analysis**
  Poultry Science. 2021, 100 (12), 101445. doi: 10.1016/j.psj.2021.101445
  · Chao Fang[#], **Jiannan Zhang[#]**, Yiping Wan, Zejiao Li, Feiyang Qi, Yuanhao Dang, Juan Li, Yajun Wang [*];
- **Molecular Cloning and Functional Characterization of Three 5-HT Receptor Genes (HTR1B, HTR1E, and HTR1F) in Chickens**
  Genes. 2021, 12(6): 891. doi: 10.3390/genes12060891
  · Caiyun Sun, Yang Qiu, Qin Ren, Xiao Zhang, Baolong Cao, Yi Zou, Juan Li, **Jiannan Zhang [*]**, Yajun Wang;
- **Single-Cell RNA Sequencing Analysis of Chicken Anterior Pituitary: A Bird’s-Eye View on Vertebrate Pituitary**
  Frontiers in physiology. 2021, 12:. doi: 10.3389/fphys.2021.562817
  · **Jiannan Zhang[#]**, Can Lv[#], Chunheng Mo, Meng Liu, Yiping Wan, Juan Li [*], Yajun Wang [*];
  · Impact Factor = 4.566
- **Characterization of Four Orphan Receptors (GPR3, GPR6, GPR12 and GPR12L) in Chickens and Ducks and Regulation of GPR12 Expression in Ovarian Granulosa Cells by Progesterone**
  Genes. 2021, 12(4): 489. doi: 10.3390/genes12040489
  · Li, Z.; Jiang, B.; Cao, B.; Zhang, Z.; **Zhang, J.**; Li, J.; Huang, Y. [*]; Wang, Y. [*];
- **Characterization of four urotensin II receptors (UTS2Rs) in chickens**
  Peptides. 2021, 138: 170482. doi: 10.1016/j.peptides.2020.170482
  · Cui, L.[#], Lv, C.[#], **Zhang, J.**, Li, J. [*], & Wang, Y. [*];

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
  · **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. doi: 10.3390/ijms21197036
  · 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. doi: 10.1016/j.psj.2019.10.062
  · 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. doi: 10.1016/j.domaniend.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. doi: 10.1016/j.ygcen.2019.05.013
  · 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:. doi: 10.3389/fphys.2019.00882
  · 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. doi: 10.1016/j.ygcen.2019.113231
  · 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. doi: 10.3389/fendo.2019.00595
  · 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. doi: 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 *; 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. doi: 10.1016/j.bbrc.2018.04.229
  · **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. doi: 10.1016/j.peptides.2017.12.022
  · 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. doi: 10.1530/JOE-17-0131
  · **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. doi: 10.1016/j.ygcen.2016.09.005
  · 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. doi: 10.1016/j.gene.2017.03.009
  · 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. doi: 10.1016/j.ygcen.2016.04.019
  · 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. doi: 10.1016/j.domaniend.2013.10.004
  · **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. doi: 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 [*];

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

· 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