

# CURRICULUM VITAE

**Zi-Jiang Chen, M.D., Ph.D**

**Address : 157 Jingliu Road, Center for Reproductive Medicine, Shandong University, Jinan 250001, China**

**Tel: 0086-531-85651188, 87068226 (O); Fax: 0086-531-87989988/ 87068226; Mobile: 0086-13505316618**

**Secretaries: 0086-531-85651189/ 85651190 (O)**

**E-mail: chen zijiang@vip.163.com ; zjchen59@126.com**

**Academician, Chinese Academy of Sciences 2019.11-**

**Fellow, The World Academy of Sciences (TWAS) 2022.01-**

## **MAIN RESEARCH AREA:**

Gynecological Endocrinology  
Assisted Reproductive Technology  
Genetics in OB/GYN and Reproduction  
Human Fertility Preservation  
Reproductive Biology

## **PRESENT APPOINTMENT:**

Chair and Professor, Department of Ob & Gyn  
Director, Center for Reproductive Medicine  
Shandong University  
P. R. China.

Director, Center for Reproductive Medicine  
Shanghai Jiao Tong University School of Medicine  
Shanghai, P. R. China.

Director, National Research Center for Assisted Reproductive Technology and  
Reproductive Genetics, China

Director, The Key laboratory of Reproductive Endocrinology, Ministry of Education,  
China

Director, The Key laboratory for Assisted Reproductive Technology and Reproductive  
Genetics, Shanghai, China

Adjunct Professor, School of Biomedical Sciences  
Chinese University of Hong Kong  
Hong Kong, China

Adjunct Professor, Center for Embryonic Cell and Gene Therapy  
Oregon Health & Science University  
Portland, U.S.A.

## **HONORS**

1. The National Scientific Innovation and Advancement Award, China, 2020
2. The Preeminent Science and Technology Award of Shandong province, China, 2015
3. Prize for Scientific and Technological Progress, Ho Leung Ho Lee Foundation, 2012
4. Outstanding Doctoral Dissertation Guidance Award, the National Ministry of Education, China, 2009
5. Chosen as one of “The National Excellent Scientists”, Awarded by the Chinese Society of Science and Technology, 2005
6. The Outstanding Young Scientists, awarded by the National Ministry of Health, China, 2002
7. Chosen as one of “ The National One Hundred Outstanding Women”, China, 2001
8. “Wu Jie-Ping Medical Awards”, the National Ministry of Health, China, 1996
9. The Outstanding Young Medical Scientist Award, the National Ministry of Health, China, 1996
10. The National Outstanding Professional Women, awarded by the Women League of China, 1996
11. Commended by the 4th World Women Conference, United Nations, 1995
12. The Outstanding Scientist Award by the State Council of China, 1994
13. Awards of Fok Ying Tung Education Foundation (Hong Kong) by the National Commission of Education, China, 1993

## **ORGANIZATIONS:**

1. Secretary General, International Federation of Fertility Societies (IFFS), 2019-2022
2. Board Member, Preimplantation Genetic Diagnosis Special Interest Group (PGDSIG), 2014-Present
3. Executive Board, Asia Pacific Initiative on Reproduction(ASPIRE), 2018-2020
4. Consultation Expert, Expert Working Group (EWG), Geneva Foundation for Medical Education and Research (GFMER) in collaboration with WHO, 2012-Present
5. Member, Androgen Excess and PCOS Society (AE-PCOS), 2011- Present
6. External expert, the International Olympics Committee(IOC) Medical Commission, 2010- Present
7. Executive Member, Asia Pacific Initiative on Reproduction(ASPIRE), 2014- Present
8. Vice President, Chinese Society of Reproductive Medicine, Chinese Medical Association, 2009- 2015
9. Vice President, Professional Committee of Reproductive Medicine, Chinese Medical Doctor Association, 2015-Present
10. Chair, Gynecological Endocrinology of OB/GYN Professional Committee, Chinese Medical Association, 2009- Present
11. Board Member, the 10<sup>th</sup> OB/GYN Professional Committee, Chinese Medical Association, 2013-Present

## **JOURNALS EDITORIAL**

### Reproductive Sciences

Associate Editor, 2021-present

### Human Reproduction Update

Associate Editor, 2016-2020

### Gynecologic and Obstetric Investigation

Associate Editor, 2008- 2019

### Asian Journal of Andrology

Member of Editorial Board, 2015- Present

Chinese Journal of Obstetrics and Gynecology(Chinese)

Deputy Editor-in-Chief, 2010-Present

Journal of International Reproductive Health/Family Planning

Vice Director, February, 2008- Present

Clinical Endocrinology

Editorial Board, 2017 –2020

**PUBLICATIONS: (selected from more than 400 publications)**

**\* Corresponding Author**

1. Junhao Yan#, Yingying Qin#, Han Zhao#, Yun Sun#, Fei Gong#, Rong Li#, Xiaoxi Sun#, Xiufeng Ling#, Hong Li#, Cuifang Hao, Jichun Tan, Jing Yang, Yimin Zhu, Fenghua Liu, Dawei Chen, Daimin Wei, Juanjuan Lu, Tianxiang Ni, Wei Zhou, Keliang Wu, Yuan Gao, Yuhua Shi, Yao Lu, Ting Zhang, Wei Wu, Xiang Ma, Hailan Ma, Jing Fu, Junqiang Zhang, Qingxia Meng, Heping Zhang, Richard S Legro, **Zi-Jiang Chen\***. Live Birth with or without Preimplantation Genetic Testing for Aneuploidy. *N Engl J Med*. 2021 Nov 25;385(22):2047-2058. doi: 10.1056/NEJMoa2103613.
2. Xuepeng Chen#, Yuwen Ke#, Keliang Wu#, Han Zhao#, Yaoyu Sun, Lei Gao, Zhenbo Liu, Jingye Zhang, Wenrong Tao, Zhenzhen Hou, Hui Liu, Jiang Liu\* & **Zi-Jiang Chen\***. Key role for CTCF in establishing chromatin structure in human embryos. *Nature*. 2019 Dec;576(7786):306-310.
3. Daimin Wei, Jia-Yin Liu, Yun Sun, Yuhua Shi, Bo Zhang, Jian-Qiao Liu, Jichun Tan, Xiaoyan Liang, Yunxia Cao, Ze Wang, Yingying Qin, Han Zhao, Yi Zhou, Haiqin Ren, Guimin Hao, Xiufeng Ling, Junzhao Zhao, Yunshan Zhang, Xiujuan Qi, Lin Zhang, Xiaohui Deng, Xiaoli Chen, Yimin Zhu, Xiaohong Wang, Li-Feng Tian, Qun Lv, Xiang Ma, Heping Zhang, Richard S Legro, **Zi-Jiang Chen\***. Frozen versus fresh single blastocyst transfer in ovulatory women: a multicenter, randomized controlled trial. *Lancet*. 2019 Mar 30;393(10178):1310-1318.
4. Yingying Qin, Feng Zhang, **Zi-Jiang Chen\***. BRCA2 in Ovarian Development and Function. *N Engl J Med*. 2019; 380:1086-1087.
5. Yuhua Shi, Yun Sun, Cuifang Hao, Heping Zhang, Daimin Wei, Yunshan Zhang, Yimin Zhu, Xiaohui Deng, Xiujuan Qi, Hong Li, Xiang Ma, Haiqin Ren, Yaqin Wang, Dan Zhang, Bo Wang, Fenghua Liu, Qiongfang Wu, Ze Wang, Haiyan Bai, Yuan Li, Yi Zhou, Mei Sun, Hong Liu, Jing Li, Lin Zhang, Xiaoli Chen, Songying Zhang, Xiaoxi Sun, Richard S. Legro, and **Zi-Jiang Chen\***. Frozen versus Fresh Embryo Transfer in Ovulatory Women. *N Engl J Med*, 2018 Jan 11; 378:126-36.
6. Lei Gao, Keliang Wu, Zhenbo Liu, Xuelong Yao, Shenli Yuan, Wenrong Tao, Lizhi Yi, Guanling Yu, Zhenzhen Hou, Dongdong Fan, Yong Tian, Han Zhao, Jianqiao Liu\*, **Zi-Jiang Chen\***, Jiang Liu\*. Chromatin Accessibility Landscape in Human Early Embryos and its Association with Evolution. *Cell*. 2018 Mar 22;173(1):248-259.e15.
7. **Zi-Jiang Chen\***, Yuhua Shi, Yun Sun, Bo Zhang, Xiaoyan Liang, Yunxia Cao, Jing Yang, Jiayin Liu, Daimin Wei, Ning Weng, Lifeng Tian, Cuifang Hao, Dongzi Yang, Feng Zhou, Juanzi Shi, Yongle Xu,

Jing Li, Junhao Yan, Yingying Qin, Han Zhao, Heping Zhang, Richard S. Legro. Fresh versus Frozen Embryos for Infertility in Polycystic Ovary Syndrome. *N Engl J Med*. 2016 Aug 11; 375(6):523-33.

8. **Zi-Jiang Chen\***, Han Zhao, Lin He, Yuhua Shi, Yingying Qin, Yongyong Shi\*, Zhiqiang Li, Li You, Junli Zhao, Jiayin Liu, Xiaoyan Liang, Xiaoming Zhao, Junzhao Zhao, Yingpu Sun, Bo Zhang, Hong Jiang, Dongni Zhao, Yuehong Bian, Xuan Gao, Ling Geng, Yiran Li, Dongyi Zhu, Xiuqin Sun, Jin-e Xu, Cuifang Hao, Chun-e Ren, Yajie Zhang, Shiling Chen, Wei Zhang, Aijun Yang, Junhao Yan, Yuan Li, Jinlong Ma, Yueran Zhao. Genome-wide association study identifies susceptibility loci for polycystic ovary syndrome on chromosome 2p16.3, 2p21 and 9q33.3. *Nat Genet*. 2011; 43(1): 55–59.
9. Yongyong Shi, Han Zhao, Yuhua Shi, Yunxia Cao, Dongzi Yang, Zhiqiang Li, Bo Zhang, Xiaoyan Liang, Tao L, Jianhua Chen, Jiawei Shen, Junzhao Zhao, Li You, Xuan Gao, Dongyi Zhu, Xiaoming Zhao, Ying Yan, Yingying Qin, Wenjin Li, Junhao Yan, Qingzhong Wang, Junli Zhao, Ling Geng, Jinlong Ma, Yueran Zhao, Guang He, Aiping Zhang, Shuhua Zou, Aijun Yang, Jiayin Liu, Weidong Li, Baojie Li, Chunling Wan, Ying Qin, Juanzi Shi, Jing Yang, Hong Jiang, Jin-e Xu, Xiujuan Qi, Yun Sun, Yajie Zhang, Cuifang Hao, Xiuqing Ju, Dongni Zhao, Chun-e Ren, Xiuqing Li, Wei Zhang, Yiwen Zhang, Jiangtao Zhang, Di Wu, Changming Zhang, Lin He\*, and **Zi-Jiang Chen\***. Genome-wide association study identifies eight new risk loci for polycystic ovary syndrome. *Nat Genet*. 2012; 44(9): 1020-5.
10. Qiliang Xin, Shuangbo Kong, Junhao Yan, Jingtao Qiu, Bo He, Chan Zhou, Zhangli Ni, Haili Bao, Lin Huang, Jinhua Lu, Guoliang Xia, Xicheng Liu\*, **Zi-Jiang Chen\***, Chao Wang\*, and Haibin Wang\*. Polycomb subunit BMI1 determines uterine progesterone responsiveness essential for normal embryo implantation. *J Clin Invest*. 2018 Jan 2; 128(1):175-189.
11. Zhibin Hu\*, Zheng Li, Jun Yu, Chao Tong, Yuan Lin, Xuejiang Guo, Feng Lu, Jing Dong, Yankai Xia, Yang Wen, Hao Wu, Honggang Li, Yong Zhu, Ping Ping, Xiangfeng Chen, Juncheng Dai, Yue Jiang, Shandong Pan, Peng Xu, Kailing Luo, Qiang Du, Bing Yao, Ming Liang, Yaoting Gui, Ning Weng, Hui Lu, Zhuqing Wang, Fengbin Zhang, Xiaobin Zhu, Xiaoyu Yang, Zhou Zhang, Han Zhao, Chenliang Xiong, Hongxia Ma, Guangfu Jin, Feng Chen, Jianfeng Xu, Xinru Wang, Zuomin Zhou, **Zi-Jiang Chen\***, Jiayin Liu\*, Hongbing Shen & Jiahao Sha\*. Association analysis identifies new risk loci for non-obstructive azoospermia in Chinese men. *Nat Commun*. 2014; 5:3857.
12. Xiaoxue Yuan, Tao Hu, Han Zhao, Yuanyuan Huang, Rongcai Ye, Jun Lin, Chuanhai Zhang, Hanlin Zhang, Gang Wei, Huiqiao Zhou, Meng Dong, Jun Zhao, Haibin Wang, Qingsong Liu, Hyuek Jong Lee, Wanzhu Jin\*, and **Zi-Jiang Chen\***. Brown adipose tissue transplantation ameliorates polycystic ovary syndrome. *Proc Natl Acad Sci U S A*. 2016 113(10):2708-13.
13. Han Zhao, Jianfeng Xu, Haobo Zhang, Yingpu Sun, Jieli Sun, Zhong Wang, Jiayin Liu, Qiang Ding, Shaoming Lu, Rong Shi, Li You, Yingying Qin, Xiaoming Zhao, Xiaoling Lin, Xiao Li, Junjie Feng, Li Wang, Jeffrey M. Trent, Chengyan Xu, Ying Gao, Bo Zhang, Xuan Gao, Jingmei Hu, Hong Chen, Guangyu Li, Junzhao Zhao, Shuhua Zou, Hong Jiang, Cuifang Hao, Yueran Zhao, Jinlong Ma, S. Lilly Zheng, and **Zi-Jiang Chen\***. A Genome-wide Association Study Reveals Variants within the HLA Region Are Associated with Risk for Nonobstructive Azoospermia. *Am J Hum Genet*. 2012; 90(5): 900-906.
14. Keliang Wu, Cuiqing Zhong, Tailai Chen, Xiaoyu Zhang, Wenrong Tao, Jingye Zhang, Hongchang Li, Han Zhao\*, Jinsong Li\* and **Zi-Jiang Chen\***. Polar bodies are efficient donors for reconstruction of

human embryos for potential mitochondrial replacement therapy. *Cell Research*. 2017 Aug; 27(8):1069-1072.

15. Tailai Chen, Yuehong Bian, Xiaoman Liu, Shigang Zhao, Keliang Wu, Lei Yan, Mei Li, Zhenglin Yang, Hongbin Liu, Han Zhao\*, Zi-Jiang Chen\*. A Recurrent Missense Mutation in ZP3 Causes Empty Follicle Syndrome and Female Infertility. *Am J Hum Genet*. 2017 Sep 7; 101(3):459-465.
16. Keliang Wu, Tailai Chen, Sexin Huang, Cuiqing Zhong, Junhao Yan, Xiaoyu Zhang, Jinsong Li, Yuan Gao\*, Han Zhao\*, Zi-Jiang Chen\*. Pre-pronuclear transfer in human embryos. *Cell Research*. 2017:1-4.
17. Hong-Bin Liu, Tahir Muhammad, Yueshuai Guo, Meng-Jing Li, Qian-Qian Sha, Chuan-Xin Zhang, Hui Liu, Shi-Gang Zhao, Han Zhao, Hao Zhang, Yan-Zhi Du, Kang Sun, Kui Liu, Gang Lu, Xue-Jiang Guo, Jiahao Sha, Heng-Yu Fan, Fei Gao, and Zi-Jiang Chen\*. RNA-Binding Protein IGF2BP2/IMP2 is a Critical Maternal Activator in Early Zygotic Genome Activation. *Adv Sci (Weinh)*. 2019 May 24;6(15):1900295.
18. Meiling Zhang#, Changyang Zhou#, Yu Wei#, Chunlong Xu#, Hong Pan, Wenqin Ying, Yidi Sun, Yun Sun, Qingquan Xiao, Ning Yao, Wanxia Zhong, Yun Li, Keliang Wu, Gao Yuan, Shoukhrat Mitalipov\*, Zi-jiang Chen\*, and Hui Yang\*. Human cleaving embryos enable robust homozygotic nucleotide substitutions by base editors. *Genome Biol*. 2019 May 22; 20(1):101.
19. Yingying Qin, Xue Jiao, Joe Leigh Simpson, and Zi-Jiang Chen\*. Genetics of primary ovarian insufficiency: new developments and opportunities. *Hum Reprod Update*. 2015 Nov; 21(6):787-808.
20. Hongbin Liu, Tao Huang, Mengjing Li, Miao Li, Chuanxin Zhang, Jing Jiang Xiao, chen Yu, Yingying Yin, Fan Zhang, Gang Lu, Meng-Cheng Luo, Liang-Ran Zhang, Jinsong Li, Kui Liu, Zi-Jiang Chen\*. SCRE serves as a unique synaptonemal complex fastener and is essential for progression of meiosis prophase I in mice. *Nucleic Acids Res*. 2019 Jun 20;47(11):5670-5683.