

## CURRICULUM VITAE

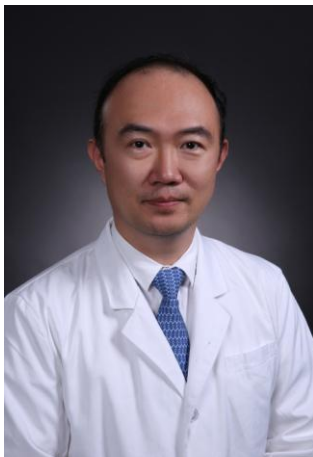
### PERSONAL:

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**Languages:** Fluent in English, Chinese



### EDUCATION

1992-1997	<b>Five-year medical program Bachelor in Clinical medicine</b> Beijing Medical University
1997-2002	<b>M.D. of Urology and Andrology</b> Peking University, Health Science Center
2002- Present	<b>Attending of Urology and Andrology</b> Peking University Third Hospital
2012	<b>Visiting Schoolar</b> Department of Urology, Cleveland Clinic

2012

**Visiting Scholar**  
**Male infertility microsurgery training program**  
Department of Urology, New York Presbyterian Hospital

**HOSPITAL POSITIONS**

2022-present **Vice director**  
Department of Urology  
Department of Reproductive Medicine  
Peking University Third Hospital

**LICENSURE**

2002 Chinese Medical Licensing Examination  
Passed

**PROFESSIONAL SOCIETIES AND ACADEMIC POSITIONS (PRESENT)**

**Member of Standing Committee**, Andrology branch of Chinese Medical Association  
**Deputy director**, Male reproductive medicine group of reproductive medicine professional committee of Chinese Medical Association  
**Deputy director**, Surgery group of Andrology branch of Chinese Medical Association  
**Member**, Basic science research group of Urology branch of Chinese Medical Association  
**Vice chairman**, Andrology branch of Beijing Medical Association  
**Member of the Standing Committee**, Reproductive infection and microbiology branch of China Council for the promotion of medical science

**Editorial board member**, *Chinese Journal of Urology*, *Chinese Journal of minimally invasive surgery*, *Chinese Journal of Andrology*.

**RESEARCH GRANTS**

Funding Source: National Key Research and Development Program of China  
Period: 2017.12 – 2021.06  
Grant Title: Damage of reproductive system caused by environmental and iatrogenic factors and its protection  
No: 2017YFC1002001

Funding Source: National Key Research and Development Program of China  
Period: 2019.01 – 2021.12  
Grant Title: Identification and interaction of environmental and genetic pathogenic factors in infertility population  
No: 2018YFC1004202

Funding Source: Beijing Municipal Natural Science Foundation  
Period: 2018.01 – 2021.12  
Grant Title: Leydig stem cell autograft for treatment of hypogonadism in Klinefelter syndrome and its molecular mechanism  
No: 7182177

Funding Source: Capital's Funds for Health Improvement and Research  
Period: 2022.01– 2024.12  
Grant Title: Diagnosis and treatment of Improving the reproductive outcome of azoospermia patients with Y chromosome AZFc microdeletion after micro-dissection of testicular sperm extraction  
No: 2022-2-4094

**PUBLICATIONS ( THE FIRST AUTHOR OR CORRESPONDENCE AUTHOR )**

1. Jian Chen, Chenxu Cao, Mengcheng Luo, et al. MicroRNA-202 safeguards meiotic progression by preventing premature SEPARASE-mediated REC8 cleavage. *EMBO reports*. 2022, e54298
2. Consensus of diagnosis and treatment of azoospermia by Chinese experts, *Chin J Reprod Contracept*, July 2021, 41(7): 573-585
3. Xiaotong Wang, Mengyuan Qu, Zili Li, Yuting Long, **Kai Hong** and Honggang Li. Valproic acid promotes the in vitro differentiation of human pluripotent stem cells into spermatogonial stem cell-like cells, *Stem Cell Research & Therapy*. 2021;12:553
4. Hong-Liang Zhang, Lian-Ming Zhao, Jia-Ming Mao, et al. Sperm retrieval rates and clinical outcomes for patients with different causes of azoospermia who undergo microdissection testicular sperm extraction-intracytoplasmic sperm injection. *Asian Journal of Andrology*. 2021,23:59-63
5. Fang Nanning, **Hong Kai**, Ge Huiyu, Hao Yichang, Fang Yangyi, Tian Yu, Sun Yang, Jiang Hui, Ma Lulin .Use of real-time transrectal ultrasound guidance in seminal vesiculoscopy, *Chinese Journal of Urology*. 2021,42(1):38-42.
6. Wang Shouyang, **Hong Kai**, Tian Yu, et al. Multifactor analysis of postoperative patency of microsurgical vasoepididymostomy, *Chinese Journal of Urology*. 2018,39 (6) : 441-445.
7. Liu DF, Zhao LM, **Hong K**, Mao JM, Yang YZ, Zhang Z, Jiang H. Fertility achieved through in vitro fertilization in a male patient with 48,XXYY syndrome. *Asian J Androl*. 2018 Mar-Apr;20(2):208-209.
8. **Hong K**, Zhao LM, Xu SX, Tang WH, Mao JM, Liu DF, Jiang H, Ma LL, Qiao J. Multiple factors affecting surgical outcomes and patency rates in use of single-armed two-suture microsurgical vasoepididymostomy: a single surgeon's experience with 81 patients. *Asian J Androl*. 2016, 18: 129-133
9. **Hong Kai** , Zhao Lianming , Tang Wenhao, et al. Microsurgical Crossed Vasovasostomy for Complicated Obstructive Azoospermia. *Chinese Journal of Minimally Invasive Surgery*. 2015, 15 (3) : 228-231.
10. **Hong Kai**, et al. Efficacy and safety of 120-W Thulium: Yttrium-Aluminum-Garnet

vapoenucleation of prostates compared with Holmium laser enucleation of prostate for benign prostatic hyperplasia, Chin Med J (Engl). 2015 Apr;128(7):884-889

11. **Hong Kai**, Liu Yu-qing, Lu Jian, Xiao Chun-lei, Huang Yi, Ma Lu-lin. Effect and impact of holmium laser versus thulium laser enucleation of the prostate on erectile function. National Journal of Andrology. 2015,21 (3) : 245-250.
12. **Hong Kai**, Liu Defeng ,Jiang Hui, Zhao Lianming, Tang Wenhao, Mao Jiaming, Zhang Hongliang , Yang Yuzhuo, Zhang Zhe. Factors affecting the quality of sexual life and quality of sexual life of ED patients after treatment of PDE5 inhibitor》, Chinese Journal of Human Sexuality.2015,(3): 3-6.
13. **Hong Kai**, Xu qingquan, Zhao Yongping, et al. Andrology in China: current status and 10 years' progress. Asian J Androl. 2011 Jul;13(4):512-518.

#### **PARTICIPATED PUBLISHED BOOKS ( PARTIAL)**

1. Chinese guideline of diagnosis and treatment on urology and andrology, 2019 edition, (2020 )
2. Wu Jieping Urology, 2<sup>nd</sup> edition, (2019 )
3. Chinese experts consensus of diagnosis and treatment on andrology. (2017)
4. Clinical guideline of reproductive medicine. (2014)
5. Minimally invasive surgery in reproductive medicine. ( 2012)
6. Guideline of LOH diagnosis and treatment. (2009)

#### **Patent** (in the last 5 years)

1. Yangyi Fang, **Kai Hong**, Wei He. A kind of holder for vasovasostomy. No: ZL 2020 2 3247870.9 (Patent for Utility Models & Authorized)
2. Yu Tian, **Kai Hong**. A pull hook for microsurgical varicocele repair. No: ZL 2019 2 0883117.7 (Patent for Utility Models & Authorized)

#### **Major Wrok**

Dr. Hong is focused on clinical and research of male infertility, especially on azoospermia.

Dr. Hong is one of the best surgeon on male infertility microsurgery in China. He pioneered and completed the first micro-dissection testicular sperm extraction (mTESE), the first micro-surgical vasoepididymostomy, the first micro-surgical vasovasostomy and vesical seminal scopy in his hospital ( Peking University Third Hospital, rank top one in reproductive medicine in China in the

last five years) in 2009. Dr. Hong's surgical experience of mTESE, microsurgical vasoepididymostomy are totally more than 3000 cases. He is one of the most experienced surgeon on mTESE and VE surgery in China. Invited lectures and scientific presentations by Dr. Hong were dozens of times each year all over the country. It has carried out surgical demonstration, surgical guidance and difficult case consultation in dozens of large-scale comprehensive hospital urology or reproductive medicine centers in China each year.