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BIOGRAPHY

Prof. Wang Jian is the director of BGI. After graduation he conducted postdoctoral researches in USA from 1988 to 1990 and worked as senior research fellow at University of Washington during 1990-1994. He acted as one of the main team leaders of management and decision-making for the genomic sequencing projects, leading the team to establish large-scale, high-throughput, and low-cost technique platforms. His current research interest includes applications of genomics and bioinformatics in various fields.

TITLES

Research Fellow/Doctor Advisor

NATIONALITY

Nationality/Chinese
Sex/Male
Date of birth/04-13-1954

POSITIONS

2007.04-
Director, Beijing Genomics Institute, Shenzhen

1999-2007
Executive Director, Beijing Genomics Institute

1994-2007
Board Chairman, Beijing BGI-GBI Biotech Co., Ltd

EDUCATION/TRAINING

1990~1994	Senior Fellow Differentiation and proliferation of cells University of Washington
1989~1990	Postdoctoral Researcher Expression of MHC-II and DR antigen on smooth muscle cells University of Iowa, USA
1988~1989	Postdoctoral Researcher

Analysis on the Characterization of Glutathione S-Transferase
University of Texas, USA

1983~1987 **Master in Integration of Herbalist & Western medicine**
Beijing University of Chinese Medicine
Beijing, China

1980 **Bachelor's degree in Medical treatment**
Central South University, Xiangya School of Medicine
Hunan, China

AWARDS AND HONORS

- “The First Prize for Study Abroad in Beijing”, Beijing municipal government, (12.2001)
- “Qiu Shi Collective Award for Outstanding achievement of Science & Technologies”, Qiu Shi Science and Technology Foundation, Hongkong, P.R.China(9.2002)
- “Collective Award for Outstanding achievement of Science & Technologies”, Chinese Academy of Sciences, P.R.China(2003)
- “Outstanding individual in prevention and cure of SARS”, Beijing(7.2003)
- “The Prize for Outstanding carve out of Overseas Chinese & Chinese specialty person”, Beijing(9.2005)

PUBLICATIONS

1. Lin Feng, Hang Liu, Yu Liu, ...**Jian Wang**, *et al.* Power of Deep Sequencing and Agilent Microarray for Gene Expression Profiling Study *Mol Biotechnol.* 2010 Apr 30. 45(2):101-10.
2. Guojie Zhang, Guangwu Guo, ...**Jian Wang**, *et al.* 2010. Deep RNA sequencing at single base-pair resolution reveals high complexity of the rice transcriptome. *Genome Research* Mar 19. [Epub ahead of print]
3. Junjie Qin, Ruiqiang Li, ...**Jian Wang**, *et al.* 2010. A human gut microbial gene catalog established by deep metagenomic sequencing. [Cover Story]. *Nature* 464:59-65.
4. Ruiqiang Li, Hongmei Zhu, ...J. Wang, J. Wang‡. De novo assembly of human genomes with massively parallel short read sequencing. *Genome Res.* 2009; 20:265-72.
5. Ruiqiang Li, Wei Fan, ... **Jian Wang**, *et al.* 2010. The sequence and de novo assembly of the giant panda genome. [Cover Story]. *Nature* 463:311-7.
6. Ruiqiang Li, Yingrui Li, ... **Jian Wang**, *et al.* 2010. Building the sequence map of the human pan-genome. *Nature Biotechnology* 28:57-63.

7. Ruiqiang Li, Hongmei Zhu, ... **Jian Wang**, et al. De novo assembly of human genomes with massively parallel short read sequencing. *Genome Res.* 2009 Dec 17.
8. Sanwen Huang, Ruiqiang Li, ... **Jian Wang**, Y. Du, S. Li. 2009. The genome of the cucumber (*Cucumis sativus* Linnaeus). [Cover Story]. *Nature Genetics* 41:1275-81.
9. Qingyou Xia, Yiran Guo, ... **Jian Wang**, et al. 2009. Complete Resequencing of 40 Genomes Reveals Domestication Events and Genes in Silkworm (*Bombyx*). *Science* 326: 433-6.
10. Yan Zhou, Huajun Zheng, ... **Jian Wang**, et al. 2009. The *Schistosoma japonicum* genome reveals features of host-parasite interplay. [Cover Story]. *Nature* 460: 345-51.
11. Ruiqiang Li, Yingrui Li, ... **Jian Wang**, et al. 2009. SNP detection for massively parallel whole genome resequencing. *Genome Research* 19:1124-32.
12. Guoqing Li, Lijia Ma, ... **Jian Wang**, et al. 2009. The YH database: the first Asian diploid genome database. *Nucleic Acids Res.* 37:D1025-8.
13. Jun Wang, Wei Wang, ... Huanming Yang, **Jian Wang**. The diploid genome sequence of an Asian individual. *Nature*, 2008, 456:60-65.
14. Beijing Genomics Institute, Huanming Yang, ..., **Jian Wang**, ..., Hui Zhao, Jun Zhou. International HapMap Consortium. A second generation human haplotype map of over 3.1 million SNPs. *Nature*. 2007 Oct 18;449(7164):851-61.
15. Beijing Genomics Institute, Huanming Yang, ..., **Jian Wang**, ..., Hui Zhao, Jun Zhou. International HapMap Consortium. Genome-wide detection and characterization of positive selection in human populations. *Nature*. 2007 Oct 18;449(7164):913-8.
16. Suhua Chang, ..., **Jian Wang**, Huanming Yang, Jun Yu, and Jing Wang. Influenza Virus Database (IVDB): an integrated information resource and analysis platform for influenza virus research. *Nucleic Acids Research* 2007,35:376-380.
17. Chen Chen, ..., **Jian Wang** and Jun Yu. A Glimpse of Streptococcal Toxic Shock Syndrome from Comparative Genomics of *S. suis* 2 Chinese Isolates. *PLoS ONE*. 2007,2(3): e315.
18. Donna M, ..., **Jian Wang**, ..., George Weinstock & Richard A. Gibbs. The DNA sequence, annotation and analysis of human chromosome 3. *Nature* 2006,440:1194-8.
19. Jiaqi Tang, ..., **Jian Wang**, ..., Zhu Chen, and George F Gao. Streptococcal Toxic Shock Syndrome Caused by *Streptococcus suis* Serotype 2. *PLoS Medicine* 2006,5(3):668-676.
20. Ede Qin, ..., **Jian Wang**, ..., Qingyu Zhu. Immunogenicity and protective efficacy in monkeys of purified inactivated Vero-cell SARS vaccine. *Vaccine* 2006,24:1028-34.
21. Beijing Genomics Institute, Huanming Yang, ..., **Jian Wang**, ..., Jun Zhou. International HapMap Consortium. A Haplotype Map of the Human Genome. *Nature* 2005,437:1299-1320.

22. Jinhua Liu, ..., **Jian Wang**, George F. Gao. Highly Pathogenic H5N1 Influenza Virus Infection in Migratory Birds. *Science*, 2005, 309(5738):1206-1207 .
23. Donna M, ..., **Jing Wang**, ..., Maynard Olson, George Weinstock & Richard A. Gibbs. The DNA sequence, annotation and analysis of human chromosome 3. *Nature* 2006,440:1194-8.
24. Jiaqi Tang, ..., **Jian Wang**, ..., Zhu Chen, and George F Gao. Streptococcal Toxic Shock Syndrome Caused by Streptococcus suis Serotype 2. *PLoS Medicine* 2006,5(3):668-676.
25. Suhua Chang, ..., Jun Yu1, and **Jing Wang**. Influenza Virus Database (IVDB): an integrated information resource and analysis platform for influenza virus research.. *Nucleic Acids Research* 2006 Nov 7; [Epub ahead of print]
26. Zhu Heng, ..., **Wang Jian**, ..., Compton Susan, and Snyder Michael. Severe acute respiratory syndrome diagnostics using a coronavirus protein microarray. *Proc. Natl. Acad. Sci. U. S. A* 2006,103(11): 4011–4016.
27. Ede Qin, ..., **Jian Wang**, ..., Qingyu Zhu. Immunogenicity and protective efficacy in monkeys of purified inactivated Vero-cell SARS vaccine. *Vaccine* 2006,24:1028-34.
28. Beijing Genomics Institute Huanming Yang, ..., **Jian Wang**, ..., Jun Zhou. International HapMap Consortium. A Haplotype Map of the Human Genome. *Nature* 2005,437:1299-1320.
29. Jinhua Liu, ..., **Jian Wang**, George F. Gao. Highly Pathogenic H5N1 Influenza Virus Infection in Migratory Birds. *Science* 2005,309:1206.
30. Jun Yu, ..., **Jian Wang**, ..., Huanming Yang. The genomes of Oryza sativa: A history of duplications. *PLoS Biology* 2005, 3:266-281.
31. Ligeng Ma, ..., Xing Wang Deng, and **Jian Wang**. A microarray analysis of the rice transcriptome and its comparison to Arabidopsis. *Genome Research* 2005,15:1274-1283.
32. Chunling Yi, ..., **Jian Wang**, Ning Wei, and Xing Wang Deng. Major vault protein, in concert with constitutively photomorphogenic 1, negatively regulates c-Jun-mediated activator protein 1 transcription in mammalian cells. *Cancer Research* 2005,65:5835-40.
33. Jing Wang, ..., **Jian Wang**, ..., Zeyang Zhou, and Jun Yu. SilkDB:a knowledgebase for silkworm biology and genomics. *Nucleic Acids Research*.2005, 33:399-402.
34. Jing Wang, ..., **Jian Wang**, ..., Huanming Yang, and Jun Wang. ChickVD: a sequence variation database for the chicken genome. *Nucleic Acids Research* 2005,33: 438-441.
35. JingYue Bao, ..., **Jian Wang**, ..., San Ming Wang, and Jun Yu. Serial Analysis of Gene Expression Study of a Hybrid Rice Strain (LYP9) and Its Parental Cultivars. *Plant Physiology* 2005,138:1-16.
36. Sanggyu Lee, ..., **Jian Wang**, ..., Xiuqing Zhang, and San Ming Wang. Detecting novel low-abundant transcripts in Drosophila. *RNA* 2005,11:939-946.

37. Chen W, ..., **Wang J.** SARS-associated Coronavirus Transmitted from Human to Pig. *Emerging Infectious Diseases* 2005,11:446-8.
38. Bei Li, ..., **Jian Wang**, and Ruifu Yang. Protein Microarray for Profiling Antibody Responses to Yersinia pestis Live Vaccine. *Infection and Immunity* 2005,73:3734-3739.
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41. Rasmus Wernersson, ..., **Jian Wang**,..., Huanming Yang, and Lars Bolund. Pigs in sequence space: A 0.66X coverage pig genome survey based on shotgun sequencing. *BMC Genomics* 2005,6:70.
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46. Maofeng Qiu, ..., **Jian Wang**, and Ruifu Yang. Use of the COOH Portion of the Nucleocapsid Protein in an Antigen-Capturing Enzyme-Linked Immunosorbent Assay for Specific and Sensitive Detection of Severe Acute Respiratory Syndrome Coronavirus. *Clinical and Diagnostic Lab. Immuno.*2005,12:474-6.
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- Sciences of Zhejiang University Gane Ka-Shu Wong, ..., **Jian Wang**, Bailin Hao. A genetic variation map for chicken with 2.8 million single nucleotide polymorphisms. *Nature* 2004,432:717-722.
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55. Jiabin Tang, ..., **Jian Wang**,..., Huanming Yang, and Lihuang Zhu. A comparison of rice chloroplast genomes. *Plant Physiol.* 2004,135:412-420.
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58. Dongsheng Zhou, ..., **Jian Wang**, Peitang Huang, and Ruifu Yang. DNA Microarray Analysis of Genome Dynamics in *Yersinia pestis*: Insights into Bacterial Genome Microevolution and Niche Adaptation. *Journal of Bacteriology* 2004, 18:5138-5146.
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63. Jingqiang Wang,..., **Jian Wang**, ..., Ningzhi Xu, and Siqi Liu. Assessment of immunoreactive synthetic peptides from the structural proteins of severe acute respiratory syndrome coronavirus. *Clinical Chemistry* 2003,49:1989-1996.
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