Date of preparation: April 24, 2021

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Place of Birth: **Zhejiang, China**
Citizenship: **USA**

ACADEMIC APPOINTMENTS, HOSPITAL APPOINTMENTS, AND OTHER WORK EXPERIENCE

ACADEMIC APPOINTMENTS

09/2019 - present	**Columbia University College of Physicians & Surgeons** Professor (tenured) of Medical Sciences in Medicine at CUIMC	New York, NY
01/2019 – 09/2019	**Icahn School of Medicine at Mount Sinai; Black Family Stem Cell Institute; Tisch Cancer Institute** Professor (tenured) at Department of Cell, Developmental and Regenerative Biology	New York, NY
01/2017 – 01/2019	**Icahn School of Medicine at Mount Sinai; Black Family Stem Cell Institute; Tisch Cancer Institute** Associate Professor (tenured) at Department of Cell, Developmental and Regenerative Biology	New York, NY
01/2014 – 01/2017	**Icahn School of Medicine at Mount Sinai; Black Family Stem Cell Institute** Associate Professor at Department of Cell, Developmental and Regenerative Biology	New York, NY
01/2009 – 01/2014	**Icahn School of Medicine at Mount Sinai; Black Family Stem Cell Institute** Assistant Professor at Department of Developmental and Regenerative Biology	New York, NY
01/2007 – 01/2009	**Children's Hospital Boston and Harvard Medical School** Instructor in Pediatrics	Boston, MA

TRAINING

04/2001 – 01/2007	**Children's Hospital Boston and Harvard Medical School** Postdoctoral Fellow in Stem Cell Biology (Mentor: Stuart H. Orkin)	Boston, MA
02/2000 – 04/2001	**Lineberger Comp. Cancer Center, UNC at Chapel Hill** Postdoctoral Fellow of Lymphoma Research Foundation of America (Mentor: Jean-Michel Vos)	Chapel Hill, NC

EDUCATION

09/1995 – 02/2000	**University of Massachusetts at Amherst** PhD in Biochemistry and Molecular Biology, Feb. 2000 Thesis Title: Modulation of Plant Syndrome by Small RNAs associated with Turnip Crinkle Virus Thesis Advisor: Dr. Anne E. Simon	Amherst, MA
09/1991 – 09/1995	**Institute of Microbiology, Chinese Academy of Sciences** MS in Molecular Virology, April 1995	Beijing, China
09/1987 – 09/1991	**Nankai University** BS in Biology, July 1991	Tianjin, China

HONORS AND AWARDS

2013-2017	Irma T. Hirschl and Weill-Caulier Trusts Career Scientist Award.
2013	The Dr. Harold and Golden Lamport Research Award.
2007	Cell Development Award from the Harvard Stem Cell Institute (HSCI).
2006	Cell Day Presentation Prize, Stem Cell Program at Children's Hospital Boston, Harvard Medical School, Boston, Massachusetts.
2000-2001	Postdoctoral Fellowship from Lymphoma Research Foundation of America (LRFA).
2000-2001	Postdoctoral Fellowship from Leukemia Society of America (LSA) (awarded but declined).
1999	Best Poster Presentation Award, MCB Retreat, University of Mass. Amherst, Massachusetts.
1998-1999	MCB Program Travel Award, University of Mass. Amherst.
1998-1999	Graduate Dean Travel Award, University of Mass. Amherst.
1998	American Society for Virology Travel Award.
1995	University Graduate Fellowship, University of Mass. Amherst.
1988	University Undergraduate Award, Nankai University, Tianjin, China.

ACADEMIC SERVICE

2021	Tri-Institutional Stem Cell Initiative (Tri-I SCI) Grants Review Committee	New York, NY
2018-2019	Committee of Special Awards (CoSA), Icahn School of Medicine at Mount Sinai	New York, NY
2014	Serve as Reviewer for the online Reactome module on "Transcriptional regulation of Pluripotent Stem Cells" Pluripotency http://www.reactome.org/PathwayBrowser/#DIAGRAM=452723&PATH=1266738	Online Resource

2009-present Ad Hoc Grant Reviewer:
National Institutes of Health (NIH), USA
Medical Research Council (MRC), UK
Wessex Medical Research grant review, UK
Wellcome Trust "Sir Henry Dale Fellowship", UK

Biotechnology and Biological Sciences Research Council (BBSRC), UK
European Research Council (ERC) grant review appointment, EU
Qatar National Research Foundation (QNRF), Qatar
The Institutes of the Czech Academy of Sciences, Czech
NWO Netherlands Organization for Scientific Research, Netherlands
National Natural Science Foundation of China (NFSC) grants, China
Research Grant Council (RGC) of Hong Kong, China
Health and Medical Research Fund (HMRF), Hong Kong, China

PROFESSIONAL ORGANIZATIONS AND SOCIETIES

- **MEMBERSHIPS AND POSITIONS**

  2005-present Member of International Society for Stem Cell Research (ISSCR)
  7.2020-6.2024 NIH DEV2 Study Section Member

- **JOURNAL REVIEWER**

  Aging; BMC Biology; Cell; Cell Cycle; Cell Discovery; Cell Stem Cell; Cell Reports; Cell Research; Cell Systems; Cellular and Molecular Life Sciences (CMLS); Cellular Physiology and Biochemistry; Communications Biology; Comprehensive Physiology; Critical Reviews in Biochemistry and Molecular Biology; Development; eLIFE; EMBO J; EMBRO Reports; Epigenetics; Epigenetics and Chromatin; FASEBJ; Genes and Development (G&D); Genome Biology; Journal of Biochemistry (JBC); Journal of Cell Biology (JCB); Journal of Stem Cell Research and Therapy (JSCRT); Molecular Cell; Molecular Systems Biology (MSB); Nature; Nature Cell Biology (NCB); Nature Communications; Nature Genetics; Nature Methods; Nature Structural and Molecular Biology (NSMB); Nucleic Acids Research (NAR); Oncotarget; Science; Scientific Reports; Stem Cells; Stem Cells and Development; Stem Cell Research (SCR); Stem Cell Reports; WIREs Developmental Biology

- **EDITORIAL**

  2012-present Associate Editorial board member, American Journal of Stem Cells (AJSC).
  2015-present Associate Editor, Stem Cell Epigenetics.
  2016-2017 Associate Editor. Organize the "Cell Reprogramming" series on *Current Opinions in Genetics and Development*.
  2018-present Editorial board member, Journal of Molecular Cell Biology (JMCB), Oxford Academic, Oxford University Press

EDUCATIONAL CONTRIBUTIONS

- **Direct Teaching**

Teaching Activity/Topic	Level	Role	Level and Number of Learners Taught, and Venue	Number of hours/ week/month/yr	Years Taught
Master's degree thesis advisor/Viral immunity in human embryonic stem cells	Master's degree student in Biotechnology,	Thesis advisor	1 Master's degree student	Full time for 4 months	Sept. 2020-Dec. 2020

	Columbia University				
Lecturer to M.S./Ph.D. students/Stem Cells, Genome Engineering and Regenerative Medicine (BMENE6510)	CUMC Advanced Undergraduates, MS students, and Ph.D. Students	Lecturing on pluripotent stem cells and cancer stem cells	34 Students (9 advanced undergraduates, 10 M.S. and 15 Ph.D. candidates)	2 hours/year	2021-present (scheduled in March)
Development and Stem Cell Biology Course (DSCB)	MSSM Graduate School Course	Design the course section, teach the special topics, and lead the discussions	Ph.D. Students (10-20)	3-5 hours/ every other year	2015-2019
Introduction to the Journal Club	MSSM Graduate School Course	Lead the discussions	Ph.D. Students (8-10)	3-5 hours/year	2010-2019
Laboratory rotation presentations	MSSM Graduate School Requirement	Faculty Judge/ Oversee the presentations	Ph.D. Students (6)	1.5 hours/year	2010

- **Development of instructional material and curriculum used locally**

  2015-2019: I design the DSCB Stem Cell Biology Course section, teach the special topics on pluripotency biology, and lead the discussion

  2012-2014: I served as co-director of Meet The Authors (MTA) Series in MSSM, design the course and lead the discussion.

- **Advising and Mentorship**

  Committee Services for Advising and Mentoring the MS/PhD Students:

  2018 Simon Eugenio Vidal, PhD candidate at NYU Stem Cell Program, thesis defense outside reader.
  2017-2021 Yesai Fstkchyan, PhD candidate at MSSM. PhD committee member.
  2014-2018 Zhen Sun, PhD candidate at MSSM. Thesis committee member.
  2014-2015 Nicholas Heitman, MD/PhD candidate at MSSM. Thesis committee member.
  2014-2015 Seok-Man Ho, PhD candidate at MSSM. Oral exam committee member.
  2014-2017 Huen-Suk Kim, PhD candidate at MSSM. Thesis committee member.
  2013 Fong Bell, MS student at MSSM. Thesis defense committee member.
  2012-2017 Yifei Sun, PhD candidate at MSSM. Thesis committee member.
  2011-2016 Antonio Frasca, PhD candidate at MSSM. Thesis committee member.
  2011-2015 Chunyan Ren, PhD candidate at MSSM. Thesis committee member.
  2011-2013 Chi-Yeh (Jay) Chung, PhD candidate at MSSM. PhD committee member.
  2010-2015 Avinash Wagner, PhD candidate at MSSM. Thesis committee member.

- **Community Education/Outreach Activities**

  05/2019 Featured Speaker for the 2018-2019 Scarsdale High School Science Research Symposium
  05/2019 Engaged in Scarsdale Elementary School (SES) Captone Project by inviting the SES student Nathan DeSanto for a lab tour and being interviewed by him on stem cell research.
  03/2019 Expert Judge for Westchester Science & Engineering Fair (WESEF).

PATENTS & INVENTIONS

- Patents
  Fang, R.-X., **Wang, J**., Huang, X., Xu, W.-H., and Liu, Z.-Z.
  The vascular-specific promoter of rice glycine-rich protein gene (Angrp1) and its application.
  Application Number: 01118526.0
  Application Date: 30 May 2001.
  Publication Number: CN1388246A
  Publication Date: 1 January 2003.
  Role in the patent: Cloning and characterization of the Angrp1 gene promoter.

PUBLICATIONS

ORIGINAL, PEER REVIEWED RESEARCH PUBLICATIONS

1. Huang, X., Bashkenova, N., Yang, J., Li, D., and **Wang, J.** (2021). Zfp281 recruits polycomb repressive complex 2 to restrict extraembryonic endoderm potential in safeguarding embryonic stem cell pluripotency. ***Protein & Cell*** 12(3), 213-219. PMID: 32812113.

2. Lan, J., Rajan, N., Bizet, M., Penning, A., Singh, N.K., Guallar, D., Calonne, E., Greci, A.L., Bonvin, E., Deplus, R., Hsu, P.J., Nachtergaele, S., Ma, C., Song, R., Fuentes-Iglesias, A., Hassabi, B., Putmans, P., Mies, F., Menschaert, G., Wong, J.J.L., **Wang, J.**, Fidalgo, M., Yuan, B., and Fuks, F. (2020). Functional role of Tet-mediated RNA hydroxymethylcytosine in mouse ES cells and during differentiation. ***Nat. Comm.*** 11(1): 4956. PMID:33009383.

3. Fuentes-Iglesias, A., Garcia-Outeiral, V., Pardavila, J. A., **Wang, J.***, Fidalgo, M.,* and Guallar, D.* (2020). An optimized immunoprecipitation protocol for assessing protein-RNA interactions in vitro. ***STAR Protocols***, 1(2):100093. doi: 10.1016/j.xpro.2020.100093. Epub 2020 Aug 26. PMID: 32995755 (*Corresponding authors)

4. Salik, B., Yi, H., Hassan, N., Santiappillai, N., Vick, B., Connerty, P., Duly, A., Trahair, T., Woo, A.J., Beck, D., Liu, T., Spiekermann, K., Jeremias, I., **Wang, J.**, Kavallaris, M., Haber, M., Norris, M.D., Liebermann, D.A., D'Andrea, R.J., Murriel, C., Wang, J.Y. (2020). Targeting RSPO3-LGR4 signaling for leukemia stem cell eradication in acute myeloid leukemia. ***Cancer Cell*** 38, 1-16. PMID: 32559496.

5. Guallar, D.*, Fuentes-Iglesias, A., Souto, Y., Ameneiro, C., Freire-Agulleiro, O., Pardavila, J.A., Escudero, A., Garcia-Outeiral, V., Moreira, T., Saenz, C., Xiong, H., Liu, D., Xiao, S., Hou, Y., Wu, K., Torrecilla, D., Hartner, J.C., Blanco, M.G., Lee, L.J., Lopez, M., Walkley, C.R., **Wang, J.***[,#], and Fidalgo, M.* (2020). ADAR1-dependent RNA editing promotes MET and iPSC reprogramming by alleviating ER stress. ***Cell Stem Cell*** May 5. pii: S1934-5909(20)30155-7. doi: 10.1016/j.stem.2020.04.016. PMID:32396862. (*Corresponding authors; [#]Lead contact)

6. Yang, F., Huang, X., Zang, R., Chen, J., Fidalgo, M., Sanchez-Priego, C., Yang, J., Caichen, A., Ma, F., Macfarlan, T., Wang, H., Gao, S., Zhou, H., and **Wang, J.** (2020). DUX-miR-344-ZMYM2-mediated activation of MERVL LTRs induces a totipotent 2C-like state. ***Cell Stem Cell*** 26, 234-250. PMID:32032525.

7. Zhang, H., Wu, Z., Lu, J.Y., Huang, B., Zhou, H., Xie, W., **Wang, J.**, and Shen, X. (2020). DEAD-box helicase 18 counteracts PRC2 to safeguard ribosomal DNA in pluripotency regulation. ***Cell Reports*** 30, 81-97. PMID:31914400

8. Woo, A.J., Patry, C., Ghamari, A., Pregernig, G., Zheng, K., Piers, T., Hibbs, M., Li, J.K., Fidalgo, M., Wang, J., Lee, J.-H., Leedman, P.J., **Wang, J.**, Fraenkel, E., and Cantor, A.B. (2019). Zfp281 (ZBP-99) Plays a Functionally Redundant Role with Zfp148 (ZBP-89) during Erythroid Development. ***Blood Adv.*** 3(16):2499-2511. doi: 10.1182/bloodadvances.2018030551. PMID:31455666.

9. Gonzales-Aloy, E., Connerty, P., Salik, B., Liu, B., Woo, A. J., Haber, M., Norris, M.D., **Wang, J**., and Wang J. (2019). miR-101 suppresses the development of MLL-rearranged acute myeloid leukemia. ***Haematologica*** Feb 21. pii: haematol.2018.209437. doi: 10.3324/haematol.2018.209437. [Epub ahead of print]. PMID:30792205.

10. Lynch, J., Salik, B., Connerty, P., Vick, B., Leung, H., Pijning, A., Jeremias, I., Spiekermann, K., Trahair, T., Liu, T., Haber, M., Norris, M., Woo, A., Hogg, P., **Wang, J.**, and Wang, J. (2019). JMJD1C-mediated metabolic dysregulation contributes to HOXA9-dependent leukemogenesis. ***Leukemia***, Jan 8. doi: 10.1038/s41375-018-0354-z.

11. Han, S., Tan, C., Ding, J., **Wang, J.**, Ma'ayan, A., and Gouon-Evans, V. (2018). Endothelial cells instruct liver specification of embryonic stem cell-derived endoderm through endothelial VEGFR2 signaling and endoderm epigenetic modifications. ***Stem Cell Research*** 30:163-170. PMID:29936335.

12. Kim, K.-Y., Tanaka, Y., Su, J., Cakir, B., Xiang, Y., Patterson, B., Ding, J., Jung, Y.-W., Kim, J.-H., Hysolli, E., Lee, H., Dajani, R., Kim, J., Zhong, M., Lee, J.-H., Skalnik, D., Lim, J.M., Sullivan, G., **Wang, J.**, and Park, I.-H. (2018). Uhrf1 regulates active transcriptional marks at bivalent domains in pluripotent stem cells through Setd1a. ***Nature Communications*** 9(1):2583-2595. PMID:29968706.

13. Wang, J., Wu, X., Wei, C., Huang, X., Ma, Q., Huang, X., Faiola, F., Guallar, D., Fidalgo, M., Huang, T., Peng, D., Chen, L., Yu, H., Li, X., Sun, J., Liu, X., Cai, X., Chen, X., Wang, L., Ren, J., **Wang, J.***, and Ding, J.* (2018). YY1 positively regulates transcription by targeting promoters and super-enhancers through the BAF complex in embryonic stem cells. ***Stem Cell Reports*** 10(4):1324-1339. PMID:29503092. (*Corresponding authors)

14. Guallar D., Bi, X., Pardavilam, J.A., Huang, X., Saenz, C., Shi, X., Zhou, H., Faiola, F., Ding, J., Haruehanroengra, P., Yang, F., Li, D., Sanchez-Priego, C., Saunders, A., Pan, F., Valdes, V.J., Kelley, K., Blanco, M.G., Chen, L., Wang, H., Sheng, J., Xu, M., Fidalgo M., Shen, X., and **Wang, J.** (2018). RNA-dependent chromatin targeting of Tet2 for endogenous retrovirus control in mammalian cells. ***Nature Genetics*** 50(3), 443-451. PMID:29483655.

15. Zhang, Y., Xiang, Y., Yin, Q., Du, Z., Peng, X., Wang, Q., Fidalgo, M., Xia, W., Li, Y., Zhao, Z., Zhang, W., Ma, J., Xu, F., **Wang, J**., Li, L., and Xie, W. (2017). Dynamic epigenomic landscapes during early lineage specification in mouse embryos. ***Nature Genetics*** 50(1):96-105. PMID: 29203909.

16. Huang, X., Balmer, S., Yang, F., Fidalgo, M., Li, D., Guallar, D., Hadjantonakis, A.-K., **Wang, J.** (2017). Zfp281 is essential for epiblast maturation through transcriptional and epigenetic control of Nodal signaling in the mouse embryo. ***eLife*** Nov 23;6. pii: e33333. doi: 10.7554/eLife.33333.PMID:29168693.

17. Faiola, F., Yin, N., Fidalgo, M., Huang, X., Saunders, A., Ding, J., Guallar, D., Dang, B., and **Wang, J.** (2017). NAC1 regulates somatic cell reprogramming by conrolling E-cadherin expression. ***Stem Cell Reports*** 9(3), 913-926. PMID: 28781078.

18. Saunders, A., Li, D., Faiola, F., Huang, X., Fidalgo, M., Guallar, D., Ding, J., Yang, F., Xu, Y., Zhou, H., and **Wang, J.** (2017). Context-dependent functions of NANOG phosphorylation in pluripotency and reprogramming. ***Stem Cell Reports*** 8(5), 1115-1123. PMID: 28457890.

19. Pan, F., Wingo, T.S., Zhao, Z., Street, C., Yu, M., Qu, G., Ortega, J.R., Li, L., Faiola, F., Li, L., Nguyen, L., Wang, J., Makishima, H., Chen, S., Weeks, O., Liu, S., Maciejewski, J.P., Ni, H., **Wang, J**., He, C., Li, G.-M., Aifantis, I., Yang, F.-C., Jin, P., and Xu, M. (2017). TET2 protects genomic stability through interacting with MSH6. ***Nature Communications*** 8, 15102. doi: 10.1038/ncomms15102. PMID: 28440315.

20. Saunders, A., Huang, X., Fidalgo, M., Reimer, M., Faiola, F., Ding, J., Sanchez-Priego, C., Guallar, D., Saenz. C., Li, D., and **Wang, J**. (2017). The SIN3A/HDAC co-repressor complex functionally cooperates with Nanog in promoting pluripotency. ***Cell Reports*** 18, 1713-1726. PMID: 28199843.

21. Fidalgo, M., Huang, X., Guallar, D., Sanchez-Priego, C., Valdes, V.J., Saunders, A., Ding, J., Wu, W.-S., Clavel, C., and **Wang, J.** (2016). Zfp281 coordinates opposing functions of Tet1 and Tet2 in pluripotent states. ***Cell Stem Cell***, 19(3):355-69. PMID: 27345836

22. Luo, S., Lu, J.Y., Liu, L., Yin, Y., Chen, C., Han, X., Wu, B., Xu, R., Liu, W., Yan, P., Shao, W., Lu, Z., Li, H., Na, J., Tang, F., **Wang, J.**, Zhang, Y.E., and Shen, X. (2016). Divergent lncRNAs regulate gene expression and lineage differentiation in pluripotent cells. ***Cell Stem Cell*** **18 (5), 637-652.** PMID: 26996597.

23. Aguilo, F., Zhang, F., Sancho, A., Fidalgo, M., Cecilia, S.D., Vashisht, A., Lee, D.-F., Chen, C.-H., Rengasamy, M., Andino, B., Jahouh, F., Roman, A., Krig, S.R., Wang, R., Zhang, W., Wohlschlegel, J.A., **Wang, J.**, and Walsh, M.J. (2015). Coordination of m6A mRNA methylation and gene transcription by ZFP217 regulates pluripotency and reprogramming. ***Cell Stem Cell*** 17(6), 689-704. PMID: 26526723. PMCID: PMC4671830.

24. Ding, J., Huang, X., Shao, N., Zhou, H., Lee, D.-F., Faiola, F., Fidalgo, M., Guallar, D., Saunders, A., Shliaha, P.V., Wang, H., Waghray, A., Papatsenko, D., Sánchez-Priego, C., Li, D., Yuan, Y., Lemischka, I.R., Shen, L., Kelley, K., Deng, H., Shen, X., and **Wang, J.** (2015). Tex10 coordinates epigenetic control of super-enhancer activity in pluripotency and reprogramming. ***Cell Stem Cell*** 16(6), 653-668. PMID: 25936917.

25. Dietrich, P.A., Yang, C., Leung, H.H.L., Lynch, J.R., Gonzales, E., Liu, B., Haber, M., Norris, M.D., **Wang, J.**, and Wang, J.Y. (2014). GPR84 sustains aberrant β-catenin signaling in leukemic stem cells for maintenance of MLL leukemogenesis. ***Blood***, 124(22), 3284-94. PMID: 25293777.

26. Gingold, J.A., Fidalgo, M., Guallar, D., Lau, Z., Sun, Z., Zhou, H., Faiola, F., Huang, X., Lee, D.-F., Waghray, A., Schaniel, C., Felsenfeld, D.P., Lemischka, I.R., and **Wang, J.** (2014). A genome-wide RNAi screen identifies opposing functions of Snai1 and Snai2 on the Nanog dependency of establishing pluripotency. ***Molecular Cell*** 56(1), 140-152. PMID: 25240402.

27. Yap, K. L., Sysa-Shah, P. Bolon, B., Wu, R.-C., Gao, M., Herlinger, A.L., Wang, F., Faiola, F., Huso, D., Gabrielson, K., Wang, T.-L., **Wang, J.**[#], Shih, I.M.[#] (2013). Loss of NAC1 expression is associated with defective bony patterning in the murine vertebral axis. ***PLoS One*** 8(7), e69099. PMID: 23922682. ([#]Co-corresponding author).

28. Costa, Y., Ding, J., Theunissen, T.W., Faiola, F., Hore, T. A., Shliaha, P.V., Fidalgo, M., Saunders, A., Lawrence, M., Dietmann, S., Das, S., Levasseur, D.N., Li, Z., Xu, M., Reik, W., Silva, J.C.R., and **Wang, J.** (2013). NANOG-dependent function of TET1 and TET2 in establishment of pluripotency. ***Nature*** 495, 370-374. PMID: 23395962.

29. McArthur B.D., Sevilla, A., Lenz, M., Muller, F.-J., Schuldt, B.M., Schuppert, A.A., Ridden, S.J., Stumpf, P.S., Fidalgo, M., Ma'ayan, A., **Wang, J.**, and Lemischka, I.R. (2012). Nanog-dependent feedback loops regulate murine embryonic stem cell heterogeneity. ***Nat. Cell Biol***.14 (11), 1139-1147. PMID: 23103910.

30. Fidalgo, M., Faiola, F., Pereira, C.-F., Ding, J., Saunders, A., Gingold, J., Schaniel, C., Lemischka, I.R., Silva, J., and **Wang, J.** (2012). Zfp281 mediates Nanog autorepression through recruitment of the NuRD complex

and inhibits somatic cell reprogramming. ***Proc. Natl. Acad. Sci. USA*** 109 (40), 16202-16207. PMID: 22988117.

31. Ando K., Kernan, J.L., Liu, P.H., Sandra, T., Logette, E., Tschopp, J., Look, A. T., **Wang, J.**, Bouchier-Hayes, L., and Sidi, S. (2012). PIDD death-domain phosphorylation by ATM determines prodeath versus prosurvival PIDDosome. ***Mol Cell*** 47(5), 681-693. PMID: 22854598.

32. Yap, K. L., Fraley, S.I., Thiaville, M.M., Jinawath, N., Nakayama, K., **Wang, J.**, Wang, T.L., Wirtz, D., Shih, I.M. (2012). NAC1 is an actin-binding protein that is essential for effective cytokinesis in cancer cells. ***Cancer Res.*** *72, 4085–4096.* PMID: 22761335.

33. Ding, J., Xu, H., Faiola, F., Ma'ayan, A., and **Wang, J.** (2012). Oct4 links multiple epigenetic pathways to the pluripotency network. ***Cell Research*** 22, 155-167. PMID: 22083510. PMCID:PMC3252465

34. Fidalgo, M., Shekar, P.C., Ang, Y.S., Fujiwara, Y., Orkin, S.H., and **Wang, J.** (2011). Zfp281 functions as a transcriptional repressor for pluripotency of mouse embryonic stem cells. ***Stem cells*** 29 (11),1705-1716. PMID: 21915945.

35. Ang, Y.S., Tsai, S.Y., Lee, D.F., Monk, J., Su, J., Ratnakumar, K., Ding, J., Ge, Y., Darr, H., Chang, B., **Wang, J.**, Rendl, M., Bernstein, E., Schaniel, C., and Lemischka, I.R. (2011). Wdr5 mediates self-renewal and reprogramming via the embryonic stem cell core transcriptional network. ***Cell*** 145 (2), 183-97. PMCID: 3097468.

36. **Wang, J.**, Levasseur, D.N., and Orkin, S.H. (2008). Requirement of Nanog dimerization for stem cell self-renewal and pluripotency. ***Proc. Natl. Acad. Sci. USA*** 105, 6326-6331.

37. Kim, J., Chu, J., Shen, X., **Wang, J.**, and Orkin, S.H. (2008). An extended transcriptional network for pluripotency of embryonic stem cells. ***Cell*** 132, 1049-1061.

38. Levasseur, D.N., **Wang, J.**, Dorschner, M.O., Stamatoyannopoulos, J.A., Orkin, S.H. (2008). Oct4 dependence of chromatin structure within the extended Nanog locus in ES cells. ***Genes and Development*** 22, 575-580.

39. **Wang, J.**, Theunissen, T.W., and Orkin, S.H. (2007). Site-directed, virus-free and inducible RNAi in embryonic stem cells. ***Proc. Natl. Acad. Sci. USA*** 104, 20850-20855.

40. Ackerman, K. G., **Wang, J.**, Luo, L., Fujiwara, Y., Orkin, S. H., and Beier, D. R. (2007). Gata4 is necessary for normal pulmonary lobar development. ***Am J Respir Cell Mol Biol.*** 36, 391-397.

41. **Wang, J.**, Rao, S., Chu, J., Shen, X., Levasseur, D.N., Theunissen, T.W., and Orkin, S.H. (2006). A protein interaction network for pluripotency of embryonic stem cells. ***Nature*** 444, 364-368.

42. Liu, Z.-Z., ***Wang, J.**, Wang, Q., Huang, X., Xu, W.-H., Zhu, L.-H., He, P., and Fang, R.-X. (2003). Structure, expression pattern and chromosomal mapping of the rice Osgrp-2 gene. ***Science in China Series C*** 46 (6), 584-594 (*co-first author).

43. Liu, Z.-Z., **Wang, J.**, Huang, X., Xu, W.-H., Liu Z.-M., and Fang, R.-X. (2003). The promoter of a rice glycine-rich protein gene, Osgrp-2, confers vascular-specific expression in transgenic plants. ***Planta*** 216, 824-833.

44. **Wang, J.**, and Vos, J.M. (2001). Development of a quantitative competitive PCR method for physical titration of recombinant EBV vector in a helper-dependent packaging system. ***Molecular Therapy*** 3, 976-983.

45. **Wang, J.**, and Simon, A.E. (2000). 3'-end stem-loop of the subviral RNAs associated with turnip crinkle virus are involved in symptom modulation and coat protein binding. ***J. Virol.*** 74, 6528-6537.

46. **Wang, J.**, and Simon, A.E. (1999). Symptom attenuation by a satellite RNA in vivo is dependent on reduced levels of viral coat protein. ***Virology*** 259, 234-245.

47. **Wang, J.**, Carpenter, C.D., and Simon, A.E. (1999). Minimal sequence and structural requirements of a subgenomic RNA promoter for turnip crinkle virus. ***Virology*** 253, 327-336.

48. **Wang, J.**, and Simon, A.E. (1997). Analysis of the two subgenomic RNA promoters for turnip crinkle virus in vivo and in vitro. ***Virology*** 232, 174-186.

49. Kong, Q., **Wang, J**., and Simon, A.E. (1997). Satellite RNA-mediated resistance to turnip crinkle virus in Arabidopsis involves a reduction in virus movement. ***Plant Cell*** 9, 2051-2063.

OTHER PEER REVIEWED PUBLICATIONS

1. **Wang, J.**, Cantor, A.B., and Orkin, S.H. (2009). Tandem affinity purification of protein complexes in mouse embryonic stem cells using in vivo biotinylation. ***Current Protocols in Stem Cell Biology*** 1B.5.1-1B.5.17.
2. Kim, J., Cantor, A.B., Orkin, S.H., and **Wang, J.** (2009). Use of in vivo biotinylation both protein-protein and protein-DNA interaction networks in mouse embryonic stem cells. ***Nature Protocols*** *4, 506-517.*
3. **Wang, J.**, Rao, S., Chu, J., Shen, X., Levasseur, D.N., Theunissen, T.W., and Orkin, S.H. (2007). Protein interaction network for pluripotency of ES cells: Possible clues to organization of self-renewal machinery in other stem cells. ***Blood Cells, Molecules, and Diseases*** 38 (2), 164.
4. Fang, R.-X., and **Wang, J.** (1996). *Oryza sativa* glycine-rich cell wall protein (Angrp-1) gene, complete cds. ***Entrez Nucleotide Database***, Locus OSU40708, Accession U40708.

REVIEWS, CHAPTERS, MONOGRAPHS, EDITORIALS

1. Li, D., and **Wang, J.** (2020). Ribosome heterogeneity in stem cells and development. ***Journal of Cell Biology*** 1;219(6). pii: e202001108. doi: 10.1083/jcb.202001108. PMID:32330234
2. Li, D., Kishta, M.S., and **Wang J.** (2020). Regulation of pluripotency and reprogramming by RNA binding proteins. ***Curr. Topics Dev. Biol.*** 138, 113-138. DOI: 10.1016/bs.ctdb.2020.01.003. PMID:32220295.
3. Yang, J., Bashkenova, N., Zang, R., Huang, X., and **Wang, J.** (2020). The roles of TET family proteins in development and stem cells. ***Development*** 147: dev183129 doi: 10.1242/dev.183129 Published 15 January 2020. PMID:31941705
4. Esteban, M.A. and **Wang, J.** (2017). Editorial overview: Cell reprogramming: Carpe diem. ***Curr. Opin. Genet. Dev.*** 46:iv-vi. PMID:28969756.
5. Chen, Y., Pan, Y., Guo, Y., Zhao, W., Ho, W. T., **Wang, J.**, Xu, M., Yang, F. C., and Zhao, Z. J. (2017). Tyrosine kinase inhibitors targeting FLT3 in the treatment of acute myeloid leukemia. ***Stem Cell Investigation*** 4, 48-60. PMID:28607922. PMCID:5460107
6. Huang, X., and **Wang, J.** (2017). Mitotic bookmarking: maintaining the stem cell identity during mitosis. ***Cell Stem Cell*** 20, 741-742. PMID: 28575687.
7. Huang, X., and **Wang, J.** (2017). A determined "hesitation" on H3K27me3 empowers stem cells to differentiate. ***Molecular Cell*** 66, 165–166. PMID: 28431228.
8. Guallar, D., and **Wang, J.** (2016). Taking the RISC of exiting naive pluripotency. ***Genome Biology*** **17**, 104-107. PMID: 27184958 PMCID:PMC4868046

9. Huang, X. and **Wang, J.** (2014). The extended pluripotency protein interactome and its links to reprogramming. ***Current Opinion in Genetics & Development*** 28, 16-24. PMID: 25173149.

10. Guallar, D. and **Wang, J.** (2014). RNA-binding proteins in pluripotency, differentiation and reprogramming. ***Frontiers in Biology*** 9:389-409. PMID: 25554730.

11. Saunders, A. and **Wang J.** (2014). Export and Expression: mRNAs Deliver New Messages for Controlling Pluripotency. ***Cell Stem Cell*** 14(5), 549-550. PMID: 24792108.

12. Faiola, F., Saunders, A., Dang, B., and **Wang, J.** (2014). An improved in vivo biotinylation strategy combined with FLAG and antibody-based approaches for affinity purification of protein complexes in mouse embryonic stem cells. ***Methods in Molecular Biology*** 1177, 135-149. PMID: 24943320.

13. Saunders, A. and **Wang J.** (2013). Pursuing self-renewal and pluripotency with the stem cell factor Nanog. ***Stem Cells*** 31(7):1227-1236. PMCID: 23653415.

14. **Wang, J**. (2010). Efficient gene knockdowns in mouse embryonic stem cells using microRNA-based shRNAs**.** ***Methods in Molecular Biology*** 650*,* 241-256*.*

15. Orkin, S.H., **Wang, J.**, Kim, J., Chu, J., Rao, S., Theunissen, T.W., Shen, X., and Levasseur, D.N. (2008). The transcriptional network controlling pluripotency in ES cells. ***Cold Spring Harbor Symposia on Quantitative Biology*** 73, 195-202*.*

16. **Wang, J.**, and Orkin, S.H. (2008). A protein roadmap to pluripotency and faithful reprogramming. ***Cells Tissues Organs*** 188(1-2), 23-30.

BOOKS AND BOOK CHAPTERS

1. **Wang, J.** (2012). Deciphering protein complexes and protein interaction networks for stem cell pluripotency. ***New Frontiers of Network Analysis in Systems Biology*** *(Edited by A. Ma'ayan and B. MacArthur), Chapter* 6, 97-11*8.*

2. **Wang, J.**, Trowbridge, J.J., Rao, S., and Orkin, S.H. (2008). Proteomic studies of stem cells. **Stembook** 1.4.1 (edited by Bernstein, B. E. and Lemischka, I.), published online in *stembook.org*.

3. **Wang, J.**, and Vos, J.M. (2002). Infectious Epstein-Barr virus for episomal gene therapy. ***Methods Enzymol***. 346, 649-660.

MEETINGS/INVITED ORAL AND POSTER PRESENTATIONS

10/2018 "Molecular Control of Stem Cell Potency". CDRB/BFSCI Annual Retreat. Department of Cell, Developmental and Regenerative Biology. Villa Roma Retreat Site. New York. Faculty speaker.

09/2011 "Stem Cell Biology" Symposium. Cold Spring Harbor Laboratories, Long Island. Poster Presentation.

11/2010 "Zfp281 regulates pluripotency by fine-tuning expression of pluripotency factors and repressing endoderm lineage". Inaugural Symposium, Center for Stem Cell Biology, Sloan-Kettering Institute, New York. Poster Presentation.

10/ 2010 “Proteomics studies in embryonic stem cells”. Seminar presentation in Developmental and Regenerative Biology, Research Day. Harmonie Club, New York.

04/2012 "An extended Nanog/Oct4 interactome reveals novel epigenetic pathways to efficient reprogramming". Cold Spring Harbor Asian Meeting on "Epigenetics, stem cells and transcription". Poster presentation.

07/1999 "Symptom attenuation by a satellite RNA in vivo is dependent on reduced levels of viral coat protein". The International Congress of Virology. Sydney, Australia. Poster Presentation.

THESIS

1991 **Diploma thesis** "Optimization of culture condition for production of *Xantham Gum*". Nankai University, Tianjin, China

1995 **Master thesis** "Cloning, gene structure and function analyses of rice *Aijiao Nante* glycine-rich protein gene 1 (*Angrp-1*)". Institute of Microbiology, CAS, Beijing, China

2000 **Doctoral Thesis** "Modulation of Plant Syndrome by Small RNAs associated with Turnip Crinkle Virus". University of Massachusetts at Amherst, Massachusetts

INVITED AND/OR PEER-SELECTED PRESENTATIONS AT REGIONAL, NATIONAL OR INTERNATIONAL LEVELS:

11/19/2019 The 12th Guangzhou International Conference on Stem Cell and Regenerative Medicine and the 7th Annual Conference of Chinese Society for Regenerative Cell Biology, Guangzhou, China. Invited Speaker.

04/26/2019 The Columbia Center for Human Development (CHHD), Dept. of Medicine, Columbia University, New York, NY. Invited Speaker.

04/09/2019 School of Life Science and Technology, Tongji University, Shanghai, China. Invited Speaker.

11/27/2018 The 11th Guangzhou International Conference on Stem Cell and Regenerative Medicine and the 6th Annual Conference of Chinese Society for Regenerative Cell Biology, Guangzhou, China. Invited Speaker.

09/24/2018 Center for Research in Molecular Medicine and Chronic Diseases (CiMUS), University of Santiago de Compostela, A Coruña, Spain. Invited Speaker.

18-21Sept2018 The 6th Annual GSCN Conference, German Cancer Research Center (DKFZ), Heidelberg, Germany. Invited Keynote Speaker.

4/26/2018 Institutes of Biomedical Sciences (IBS), Fudan University. Invited Speaker.

3/15/2018 Department of Biochemistry and Molecular Biology, College of Natural Sciences. Michigan State University. Invited Speaker.

3/6/2018 Eli and Edythe Broad center for Regenerative Medicine and Stem Cell Research of USC. Keck School of Medicine. University of Southern California. Invited Speaker.

2/26/2018 Department of Developmental Biology, Washington University in St. Louis. Invited Speaker.

11/14/2017 Cold Spring Harbor Asia Conference on "RNA Modifications & Epitranscriptomics". Selected Speaker.

6/15/2017 International Society for Stem Cell Research (ISSCR). Boston, Massachusetts. Selected Speaker.

19-21Apr2017 3rd National & 2nd International Stem Cells & Regenerative Medicine Congress. Mashhad, Iran. Invited Keynote Speaker.

11/01/2016 Word Life Science Conference. Beijing, China. Invited Speaker.

9/30-10/1/2016 Molecular Life of Stem Cells. Ljubljana, Slovenia. Invited Plenary Speaker.

09/07/2016 Chinese Society for Stem Cell Research (CSSCR) Annual Meeting. Changchun, China. Invited Speaker.

21-23Feb.2016 Nuclear Reprogramming and the Cancer Genome (NRCG2016). La Jolla, CA. Invited Speaker.

07/31/2015 "Decoding protein interaction networks for pluripotency and reprogramming". Institute of Molecular Medicine, Peking University. Beijing, China. Invited Speaker.

07/30/2015 "Decoding protein interaction networks for pluripotency and reprogramming". Institute of Biophysics, CAS. Beijing. Invited Speaker.

07/29/2015 "Decoding protein interaction networks for pluripotency and reprogramming". Tsinghua University School of Medicine. Beijing. Invited Speaker.

07/21/2015 "Decoding protein interaction networks for pluripotency and reprogramming". Institute of Translational Medicine, Zhejiang University. Hangzhou. Invited.

06/22/2015 "Decoding the protein interaction networks for pluripotency and reprogramming". Wellcome Trust-Medical Research Council. Cambridge, UK. Invited Speaker.

05/15/2015 "Tex10 coordinates epigenetic control of super-enhancer activity for pluripotency and reprogramming". New York State Stem Cell Science Annual Symposium. NYSTEM 2015 Symposium. Selected Speaker.

03/04/2015 "An interactome perspective of pluripotency and reprogramming". Department of Epigenetics and Molecular Carcinogenesis, The University of Texas MD Anderson Cancer Center, Smithville, TX. Invited Speaker.

11/18/2014 "Tex10 coordinates epigenetic control of super-enhancer activity for pluripotency and reprogramming". Frontiers in Stem Cell Epigenetics Symposium, Nankai University, Tianjin, China. Invited Speaker.

11/17/2014 "Molecular Mechanisms of Pluripotency and Reprogramming". Institute of Microbiology, CAS, Beijing, China. Invited Speaker.

11/11/2014 "Exploring pluripotency and reprogramming with Nanog/Oct4/Sox2 interactomes". School of Life Science and Technology, Tongji University, Shanghai, China. Invited Speaker.

11/10/2014 "Epigenetic control of pluripotency and reprogramming." Institute of Biochemistry and Cell Biology, Shanghai Institutes for Biological Sciences, CAS, Shanghai China. Invited Speaker.

11/07/2014 "A genomewide RNAi screen identifies opposing functions of Snai1 and Snai2 on the Nanog dependency of establishing pluripotency". ISSCR Regional Forum Series 2014-Global Controls in Stem Cells. Singapore. Selected Speaker.

10/07/2014 "Pluripotency and reprogramming: an interactome perspective". Department of Genetics, Yale Stem Cell Center and Yale University. New Haven, CT. Invited Speaker.

10/02/2014 "Pluripotency and reprogramming: an interactome perspective".
Department of Developmental and Regenerative Biology, Icahn School of Medicine at Mount Sinai. New York, NY. Invited speaker.

06/13/2013 "Nanog-dependent function of Tet1 and Tet2 in establishment of pluripotency". International Society for Stem Cell Research (ISSCR) Annual Meeting. Selected speaker. Boston, Mass.

06/06/2013 "Pursuing pluripotency with the Nanog interactome". Memorial Sloan-Kettering Cancer Center (MSKCC). Invited speaker.

04/04/2013 "Pursuing pluripotency with the Nanog interactome". Center for Integrated BioSystems, Utah State University. Invited speaker.

03/19/2013 "Pursuing pluripotency with the Nanog interactome". Molecular
Interaction Seminar Series, Department of Structural and Chemical Biology, MSSM, New York. Invited speaker.

12/2012 "Reprogramming logic from the Nanog/Oct4 interactome". Tsinghua University, Beijing, China. Invited Speaker.

05/23/2012 "Reprogramming logic from the Nanog/Oct4 interactome". NYSTEM Annual Symposium. Selected Speaker.

05/02/2012 "Dissecting the Molecular Mechanisms of Pluripotency and Reprogramming". Department of Pathology, *Johns Hopkins* University School of Medicine. Invited Speaker.

04/20/2012	"Reprogramming logic from the Nanog/Oct4 interactome". East China Normal University (ECNU), Shanghai, China. Invited Speaker.
03/01/2012	"Reprogramming logic from the Nanog/Oct4 interactome". Gordon Research Conference on Reprogramming Cell Fate. Selected Speaker.
08/2011	"Biochemical Basis and Molecular Mechanisms for Pluripotency of Embryonic Stem Cells". Tsinghua University, Beijing, China. Invited Speaker.
08/2011	"Biochemical Basis and Molecular Mechanisms for Pluripotency of Embryonic Stem Cells". National Institute of Biological Sciences (NIBS), Beijing, China. Invited Speaker.
06/2010	"A Proteomics Approach to Understanding Pluripotency of Embryonic Stem Cells". Department of Oncological Sciences Seminar, MSSM, New York. Invited Speaker.
2007	"Requirement of Nanog dimer for stem cell pluripotency". Harvard Stem Cell Institute (HSCI)/California Junior Faculty Symposium**,** Harvard Club, Boston, Massachusetts. Invited Speaker.
2007	"A Nanog-centered interactome for pluripotency of embryonic stem cells". Inter-lab Meeting of the Harvard Stem Cell Institute (HSCI), Harvard Medical School, Boston, Massachusetts. Invited Speaker.
2006	"The Nanog interactome for stem cell pluripotency". Stem Cell Day. Stem Cell Program in Children's Hospital Boston, Harvard Medical School, Boston, Massachusetts. Invited Speaker.
1999	"Turnip Crinkle Virus, Small RNAs, and Symptom Modulation". Institute of Microbiology, CAS, Beijing, PR China. Invited Speaker.
1999	"Turnip Crinkle Virus and Symptom Modulation". The 18th Annual Meeting of the American Society for Virology, University of Massachusetts Amherst, Massachusetts. Selected Speaker.
1998	"Analysis of the two subgenomic RNA promoters for turnip crinkle virus in vivo and in vitro". The 17th Annual Meeting of the American Society for Virology, Vancouver, British Columbia, Canada. Selected speaker.