

Curriculum Vitae (revised 10/20/2021)

G Greg Wang, Ph.D.

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A. Personal Information

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B. Education

- 2007 - 2011 Postdoctoral fellow (mentor: C. David Allis), Laboratory of Chromatin Biology & Epigenetics, Rockefeller University, New York, NY, USA
- 2000 - 2006 Ph.D. in Biomedical Sciences (mentor: Mark P. Kamps; co-mentor: Christopher K. Glass), University of California San Diego, La Jolla, CA, USA
- 1997 - 2000 M.S. in Pathogenic & Cancer Biology, Fudan University Medical Center, Shanghai, China
- 1993 - 1997 B.S. in Biochemistry, Fudan University School of Life Sciences, Shanghai, China

C. Professional Experience

- 2018 - present Associate Professor (tenured), Department of Biochemistry and Biophysics, Department of Pharmacology & Lineberger Comprehensive Cancer Center, University of North Carolina at Chapel Hill, Chapel Hill, NC
- 2012 - present Member, Lineberger Comprehensive Cancer Center, University of North Carolina at Chapel Hill, NC
- 2012 - present Preceptor, T32 Cancer Epigenetics Training Program (CETP), University of North Carolina at Chapel Hill, NC
- 2012 - 2018 Assistant Professor (tenure track), Department of Biochemistry and Biophysics, Lineberger Comprehensive Cancer Center, University of North Carolina at Chapel Hill, Chapel Hill, NC
- Dec 2011-April 2012 Visiting Assistant Professor, Department of Biochemistry and Biophysics, University of North Carolina, Chapel Hill, NC

D. Honors and Awards

- 2022 American Society for Biochemistry and Molecular Biology (ASBMB) Young Investigator Award
- 2020 Yang Family Biomedical Scholar, UNC School of Medicine
- 2019 Phillip and Ruth Hettleman Prize for Artistic and Scholarly Achievement, UNC

2018	Leukemia & Lymphoma Society (LLS) Scholar
2017	Gilead Sciences Research Scholar, Gilead Inc. Scholars Program
2016	American Cancer Society (ACS) Research Scholar
2014	Janet D. Rowley Medical Research Award, Gabrielle's Angel Foundation for Cancer Res.
2014	Kimmel Scholar, Sidney Kimmel Foundation for Cancer Research
2014	Conquer Cancer Now (Concern) Award, Concern Foundation
2013	Jefferson-Pilot Fellowship in Academic Medicine, UNC
2013	American Society of Hematology (ASH) Scholar in Basic Science
2012	Martin D. Abeloff, M.D. V Scholar*, V Foundation for Cancer Research (*top rating)
2010	Howard Temin Pathway to Independence Award in Cancer Research (NCI K99/R00)
2008	Leukemia & Lymphoma Society (LLS) Fellow Award
2008	Irvington Institute & Cancer Research Institute Postdoctoral Fellowship (declined)
2007	Choh-Hao Li Memorial Fund Scholar (postdoctoral fellowship)
2000	Lian-He Scholarship (merit-based award to graduate/medical student), Fudan University
1994 - 1996	People's Scholarship (merit-based undergraduate scholarship), Fudan University
1993	Merit High School Student, Providence of Jiang-su, P.R. China

E. Grants

Active Grants

1. NIH/NCI R01 CA268519
09/01/2021-08/31/2026
Title: Dissecting and targeting canonical and non-canonical oncogenic functions of EZH2 in cancer
Role: contact PI (co-PI: Jin, J); effort: 1.2 cal. (10.00%)
*Direct costs: \$259,932 direct/y to Wang; \$230,000/y to Jin
*TBD
2. NIH/NCI R01 CA268384
09/01/2021-08/31/2026
Title: Discovery of First-in-class WDR5 PROTACs as a Novel Therapeutic Strategy for MLL-rearranged Leukemias
Role: PI (contact PI: Jin, J); effort: 1.2 cal. (10.00%)
*Direct costs: \$240,000 direct/y to Wang; \$240,000/y to Jin [TBD]
*TBD
3. NIH/NCI R01 CA262903
07/01/2021-06/31/2026
Title: The Role of YY1 in Castration-Resistant Prostate Cancer
Role: co-I (PI: Cai, L); effort: 0.6 cal. (5.00%)
Direct costs: \$15,000 direct/y to Wang
4. Leukemia & Lymphoma Society Research Scholar, grant # 1363-19
7/1/2018-6/31/2023
Role: PI
Direct costs: \$110,000 direct/y to Wang*; *faculty salary support only
5. NIH/NCI R01 CA218600
7/1/2017-6/31/2023 *non-cost extension (NCE)

Title: Targeting Lysine Methyltransferases EZH2 and EZH1 for Treating MLL-rearranged Leukemias
Role: PI (contact PI: Jin, J); effort: 1.2 cal. (10.00%)
Direct costs: \$199,021 direct/y to Wang; \$200,953/y to Jin

6. NIH/NCI R01 CA21528
4/1/2017-3/31/2023*; *non-cost extension (NCE)
Title: Determining the role of DNA methylation deregulation in oncogenesis
Role: PI; effort: 1.8 cal. (15.00%)
Direct costs: \$230,806 direct/y to Wang
7. NIH/NCI R01 CA211336
2/1/2017-1/31/2023*; *non-cost extension (NCE)
Title: Cancer epigenetics: a novel PRC2 dysregulation mechanism in multiple myeloma
Role: PI (co-I: Zheng); effort: 1.8 cal. (15.00%)
Direct costs: \$272,976 direct/y (\$25,529/y subaward to Dr. Deyou Zheng)
8. Yang Biomedical Scholar award, UNC
Flexible use
Role: PI
Direct costs: A total \$75,000 direct/y to Wang
9. Jefferson-Pilot Fellowship in Academic Medicine, UNC
Flexible use
Role: PI
Direct costs: A total \$20,000 direct/y to Wang

F. Bibliography

Five selected research articles:

- ❖ Ahn JH, Davis ES, Daugird TA, Zhao S, Quiroga IY, Uryu H, Li J, Storey AJ, Tsai YH, Keeley DP, Mackintosh SG, Edmondson RD, Byrum SD, Cai L, Tackett AJ, Zheng D, Legant WR, Phanstiel DH#, **Wang GG#**. Phase separation drives aberrant chromatin looping and cancer development. **Nature** (2021) 595(7868):591-595. Epub 2021 Jun 23.* * News and Views at Nat Rev Genet. 2021 Jul 9 and Nat Struct Mol Biol. 2021 Jul;28(7):543-545.
- ❖ Fan H*, Lu J*, Guo Y, Li D, Zhang ZM, Tsai YH, Pi WC, Ahn JH, Gong W, Xiang Y, Allison DF, Geng H, He S, Diao Y, Chen WY, Strahl BD, Cai L, Song J#, **Wang GG#**. BAHCC1 binds H3K27me3 via a conserved BAH module to mediate gene silencing and oncogenesis. **Nature Genetics** (2020) Dec; 52(12):1384-1396. PMID: 33139953.
- ❖ Cai L, Tsai Y, Wang P, Wang J, Li D, Fan H, Zhao Y, Bareja R, Lu R, Wilson EM, Sboner A, Whang YE, Zheng D, Parker JS, Earp HS#, **Wang GG#**. ZFX Mediates Non-canonical Oncogenic Functions of the Androgen Receptor Splice Variant 7 in Castrate-Resistant Prostate Cancer. **Mol Cell**. 2018 Oct 18;72(2):341-354.e6. Epub 2018 Sep 27.
- ❖ Zhang Z*, Lu R*, Wang P, Chen DL, Yu Y, Liu S, Ji D, Gao L, Rothbart SB, Wang YS, **Wang GG#**, Song

J#. Structural basis for DNMT3A-mediated de novo DNA methylation. **Nature** 2018 Feb 15;554(7692):387-391.* *With news and views at Cancer Discovery February 27 2018.CD-NB2018-020

- ❖ Lu R, Wang P, Parton T, Zhou Y, Chrysovergis K, Rockowitz S, Chen WY, Abdel-Wahab O, Wade PA, Zheng D#, **Wang GG**#. Epigenetic perturbations by Arg882-mutated DNMT3A potentiate aberrant stem cell gene expression program and acute leukemia development. **Cancer Cell**. 2016 July 11; 30(1):92-107.* *Cover image and News & Views at: Cancer Cell 2016; 30(1):9-10 and Cancer Discovery 2016; 6(8):815.

A full list of publications: (Reverse chronological order; #, co-correspondence; *, co-first authors)

1. Yu X*, Li D*, Kottur J*, Shen Y, Kim HS, Park KS, Tsai YH, Gong W, Wang J, Suzuki K, Parker J, Herring L, Kaniskan HU, Cai L, Jain R, Liu J, Aggarwal AK, **Wang GG**#, Jin J#. A selective WDR5 degrader inhibits acute myeloid leukemia in patient derived mouse models. **Science Translational Medicine** 2021 Sep 29;13(613):eabj1578. doi: 10.1126/scitranslmed.abj1578. Epub 2021 Sep 29
2. Huang Y, Cheng A, Tang H, Huang G, Cai L, Lin T, Wu K, Tseng P, **Wang GG**, and Chen WY. USP7 Facilitates SMAD3 Autoregulation to Repress Cancer Progression in p53-deficient Lung Cancer. **Cell Death & Disease**. 2021 Sep 27;12(10):880. doi: 10.1038/s41419-021-04176-8
3. Wei J, Meng F, Park KS, Yim H, Velez J, Kumar P, Wang L, Xie L, Chen H, Shen Y, Teichman E, Li D, **Wang GG**, Chen X, Kaniskan HÜ, Jin J. Harnessing the E3 Ligase KEAP1 for Targeted Protein Degradation. **J Am Chem Soc**. 2021 Sep 14. doi: 10.1021/jacs.1c04841. PMID: 34520194
4. Xu C*, Meng F*, Park KS, Storey AJ, Gong W, Tsai YH, Gibson E, Byrum SD, Li D, Edmondson RD, Mackintosh SG, Vedadi M, Cai L, Tackett AJ, Kaniskan HÜ#, Jin J#, **Wang GG**#. A NSD3-targeted PROTAC suppresses NSD3 and cMyc oncogenic nodes in cancer cells. **Cell Chem Biol**. 2021 Aug 30:S2451-9456(21)00393-7. PMID: 34469831.
5. Kim A, **Wang GG**. R-loop and its functions at the regulatory interfaces between transcription and (epi)genome. **Biochim Biophys Acta Gene Regul Mech**. 2021 Aug 27:194750. PMID: 34461314
6. Ahn JH, Davis ES, Daugird TA, Zhao S, Quiroga IY, Uryu H, Li J, Storey AJ, Tsai YH, Keeley DP, Mackintosh SG, Edmondson RD, Byrum SD, Cai L, Tackett AJ, Zheng D, Legant WR, Phanstiel DH#, **Wang GG**#. Phase separation drives aberrant chromatin looping and cancer development. **Nature** (2021) 595(7868):591-595. Epub 2021 Jun 23.*
* News and Views at Nat Rev Genet. 2021 Jul 9 and Nat Struct Mol Biol. 2021 Jul;28(7):543-545.
7. Zhao S, Allis CD and **Wang GG**. The language of chromatin modification in human cancers. **Nat Rev Cancer**. (2021) Jul;21(7):413-430. * PMID: 34002060. *With Editor's cover illustration
8. Xu C, Tsai YH, Galbo PM, Gong W, Storey AJ, Xu Y, Byrum SD, Xu L, Whang YE, Parker JS, Mackintosh SG, Edmondson RD, Tackett AJ, Huang J, Zheng D, Earp HS, **Wang GG**#, Cai L#. Cistrome analysis of YY1 uncovers a regulatory axis of YY1:BRD2/4-PFKP during tumorigenesis of advanced prostate cancer. **Nucleic Acids Res**. (2021) May 21;49(9):4971-4988. PMID: 33849067
9. Fan H*, Guo Y*, Tsai YH, Storey AJ, Gong W, Mackintosh SG, Edmondson RG, Byrum SD, Tackett AJ,

- Cai L, **Wang GG**. A conserved BAH module within mammalian BAHD1 connects H3K27me3 to Polycomb gene silencing. **Nucleic Acids Res.** (2021) May 7; 49(8):4441-4455. PMID: 33823544
10. Ren W*, Fan H*, Grimm SA, Guo Y, Kim JJ, Li L, Petell CJ, Tan XF, Zhang ZM, Coan JP, Yin J, Gao L, Cai L, Detrick B, Çetin B, Wang Y, Cui Q, Strahl BD, Miller KM, O'Leary SE, Wade PA, Patel DJ, **Wang GG**#, Song J#. DNMT1 reads heterochromatic H4K20me3 to reinforce DNA methylation of transposons. **Nature commun.** (2021) May 3; 12(1):2490. PMID: 33941775.
 11. Guo Y, Zhao S, and **Wang GG**. Polycomb Gene Silencing Mechanisms: PRC2 Chromatin Targeting, H3K27me3 'Readout', and Phase Separation-Based Compaction. **Trends Genet.** (2021) Jun;37(6):547-565. PMID: 33494958
 12. Li J, Galbo P, Gong W, Storey AJ, Tsai YH, Mackintosh SG, Edmondson RG, Byrum SD, Cai L, Jin J, Tackett AJ, Zheng D, **Wang GG**. ZMYND11-MBTD1 induces leukemogenesis through hijacking NuA4/TIP60 acetyltransferase complex and a PWWP-mediated chromatin association mechanism. **Nature commun.** (2021) Feb 16; 12(1):1045. PMID:33594072
 13. Fan H*, Lu J*, Guo Y, Li D, Zhang ZM, Tsai YH, Pi WC, Ahn JH, Gong W, Xiang Y, Allison DF, Geng H, He S, Diao Y, Chen WY, Strahl BD, Cai L, Song J#, **Wang GG**#. BAHCC1 binds H3K27me3 via a conserved BAH module to mediate gene silencing and oncogenesis. **Nature Genetics** (2020) Dec; 52(12):1384-1396. PMID: 33139953.
 14. Wang J, **Wang GG**. No Easy Way Out for EZH2: Its Pleiotropic, Noncanonical Effects on Gene Regulation and Cellular Function. **Int J Mol Sci.** (2020) Dec 14; 21(24):9501. PMID: 33327550.
 15. Koss B, Shields BD, Taylor EM, Storey AJ, Byrum SD, Gies AJ, Washam CL, Choudhury SR, Hyun Ahn J, Uryu H, Williams JB, Krager KJ, Chiang TC, Mackintosh SG, Edmondson RD, Aykin-Burns N, Gajewski TF, **Wang GG**, Tackett AJ. Epigenetic Control of Cdkn2a.Arf Protects Tumor-Infiltrating Lymphocytes from Metabolic Exhaustion. **Cancer Res.** (2020) Nov 1;80(21):4707-4719. PMID: 33004350
 16. Ren W*, Fan H*, Grimm SA, Guo Y, Kim JJ, Li L, Petell CJ, Tan XF, Zhang ZM, Coan JP, Yin J, Gao L, Cai L, Detrick B, Çetin B, Wang Y, Cui Q, Strahl BD, Gozani O, Miller KM, O'Leary SE, Wade PA, Patel DJ, **Wang GG**#, Song J#. Direct readout of heterochromatic H3K9me3 regulates DNMT1-mediated maintenance DNA methylation. **Proc Natl Acad Sci.** (2020) Aug 4;117(31):18439-18447.
 17. Gao L*, Emperle M*, Guo Y*, Grimm SA, Ren W, Adam S, Uryu H, Zhang ZM, Chen D, Yin J, Dukatz M, Anteneh H, Jurkowska RZ, Lu J, Wang Y, Bashtrykov P, Wade PA, **Wang GG**#, Jeltsch A#, Song J#. Comprehensive structure-function characterization of DNMT3B and DNMT3A reveals distinctive de novo DNA methylation mechanisms. **Nat Commun.** (2020) Jul 3;11(1):3355. PMID: 32620778
 18. Zhang Y, Guo Y, Gough SM, Zhang J, Vann KR, Li K, Cai L, Shi X, Aplan PD, **Wang GG**, Kutateladze

- TG. Mechanistic insights into chromatin targeting by leukemic NUP98-PHF23 fusion. **Nat Commun.** (2020) Jul 3;11(1):3339. PMID: 32620764
19. Pi WC, Wang J, Shimada M, Lin JW, Geng H, Lee YL, Lu R, Li D, **Wang GG**, Roeder RG, Chen WY. E2A-PBX1 functions as a coactivator for RUNX1 in acute lymphoblastic leukemia. **Blood.** (2020) Jul 2; 136(1):11-23. PMID: 32276273
 20. Allison DF, **Wang GG**. R-loops: formation, function, and relevance to cell stress. **Cell Stress.** (2019); 3 (2), 38-47.
 21. De Silva D, Zhang Z, Liu Y, Parker JS, Xu C, Cai L, **Wang GG**, Earp HS, Whang YE. Interaction between androgen receptor and coregulator SLIRP is regulated by Ack1 tyrosine kinase and androgen. **Sci Rep.** (2019) Dec 9;9(1):18637.
 22. Ren W, Lu J, Huang M, Gao L, Li D, **Wang GG**, Song J. Structure and regulation of ZCCHC4 in m6A-methylation of 28S rRNA. **Nat Commun.** (2019) Nov 6;10(1):5042. PMID: 31695039.
 23. Jie L, Ahn JH, **Wang GG**. Understanding histone H3 lysine 36 methylation and its deregulation in disease. **Cell. & Mol. Life Sciences.** (2019) Aug;76(15):2899-2916. (Invited review for a special issue of "Protein Methylation in Cellular Physiology")
 24. Lamb KN, Bsteh D, Dishman SN, Moussa HF, Fan H, Stuckey JI, Norris JL, Cholensky SH, Li D, Wang J, Sagum C, Stanton BZ, Bedford MT, Pearce KH, Kenakin TP, Kireev DB, **Wang GG**, James LI, Bell O#, Frye SV#. Discovery and Characterization of a Cellular Potent Positive Allosteric Modulator of the Polycomb Repressive Complex 1 Chromodomain, CBX7. **Cell Chem Biol.** (2019) Oct 17; 26(10): 1365-1379.e22
 25. Ren Z*, Ahn JH*, Liu H, Tsai YH, Bhanu NV, Koss B, Allison DF, Ma A, Storey AJ, Wang P, Mackintosh SG, Edmondson RD, Groen RWJ, Martens AC, Garcia BA, Tackett AJ, Jin J, Cai L, Zheng D, **Wang GG**. PHF19 promotes multiple myeloma tumorigenicity through PRC2 activation and broad H3K27me3 domain formation. **Blood.** (2019) Oct 3;134(14):1176-1189. PMID: 31383640
 26. Lu R, Wang J, Ren Z, Yin J, Wang Y, Cai L, **Wang GG**. A model system for studying the DNMT3A hotspot mutation (DNMT3A R882) demonstrates a causal relationship between its dominant-negative effect and leukemogenesis. **Cancer Res.** 2019 Jul 15;79(14):3583-3594.
 27. Zhao X, Ren Y, Lawlor M, Shah BD, Park PMC, Lwin T, Wang X, Liu K, Wang M, Gao J, Li T, Xu M, Silva AS, Lee K, Zhang T, Koomen JM, Jiang H, Sudalagunta PR, Meads MB, Cheng F, Bi C, Fu K, Fan H, Dalton WS, Moscinski LC, Shain KH, Sotomayor EM, **Wang GG**, Gray NS, Cleveland JL, Qi J#, Tao J#. BCL2 Amplicon Loss and Transcriptional Remodeling Drives ABT-199 Resistance in B Cell Lymphoma Models. **Cancer Cell.** 2019 May 13;35(5):752-766.e9.
 28. Cai L, Tsai Y, Wang P, Wang J, Li D, Fan H, Zhao Y, Bareja R, Lu R, Wilson EM, Sboner A, Whang YE, Zheng D, Parker JS, Earp HS#, **Wang GG**#. ZFX Mediates Non-canonical Oncogenic Functions of the Androgen Receptor Splice Variant 7 in Castrate-Resistant Prostate Cancer. **Mol Cell.** 2018 Oct 18;72(2):341-354.e6. Epub 2018 Sep 27.

29. Xu B, Cai L, Butler JM, Chen D, Lu X, Allison DF, Lu R, Rafii S, Parker JS, Zheng D, **Wang GG**. The chromatin remodeler Bptf activates a stemness gene-expression program essential for the maintenance of adult hematopoietic stem cells. **Stem Cell Reports** 2018 Mar 13;10(3):675-683
30. Zhang Z*, Lu R*, Wang P, Chen DL, Yu Y, Liu S, Ji D, Gao L, Rothbart SB, Wang YS, **Wang GG#**, Song J#. Structural basis for DNMT3A-mediated de novo DNA methylation. **Nature** 2018 Feb 15;554(7692):387-391.*
*With news and views at [Cancer Discovery](#) February 27 2018.CD-NB2018-020
31. Lu R, **Wang GG**. Pharmacologic Targeting of Chromatin Modulators As Therapeutics of Acute Myeloid Leukemia. **Front Oncol.**, 2017 Oct 12; 7:241. PMID: 29075615
32. Wu B, Wang Y, Wang C, **Wang GG**, Wu J, Wan YY. BPTF Is Essential for T Cell Homeostasis and Function. **J Immunol.** 2016 Dec 1; 197(11):4325-4333. PMID: 27799308
33. Lu R, **Wang GG**. Gene enhancer deregulation and epigenetic vulnerability. **Oncoscience.** 2016 Nov; 3(11-12), 299-301.
34. Lu R, Wang P, Parton T, Zhou Y, Chrysovergis K, Rockowitz S, Chen WY, Abdel-Wahab O, Wade PA, Zheng D#, **Wang GG#**. Epigenetic perturbations by Arg882-mutated DNMT3A potentiate aberrant stem cell gene expression program and acute leukemia development. **Cancer Cell.** 2016 July 11; 30(1):92-107.*
*Cover image and News & Views at: [Cancer Cell](#) 2016; 30(1):9-10 and [Cancer Discovery](#) 2016; 6(8):815.
35. Zhou Y, Wang L, Vaseghi HR, Liu Z, Lu R, Alimohamadi S, Yin C, Fu JD, **Wang GG**, Liu J, Qian L. Bmi1 Is a Key Epigenetic Barrier to Direct Cardiac Reprogramming. **Cell Stem Cell.** 2016 Mar 3; 18(3):382-95.
36. Li Z, Chen P, Su R, Hu C, Li Y, Elkahloun AG, Zuo Z, Gurbuxani S, Arnovitz S, Weng H, Wang Y, Li S, Huang H, Neilly MB, **Wang GG**, Jiang X, Liu PP, Jin J, Chen J. PBX3 and MEIS1 Cooperate in Hematopoietic Cells to Drive Acute Myeloid Leukemias Characterized by a Core Transcriptome of the MLL-Rearranged Disease. **Cancer Res.** 2016 Feb 1; 76(3):619-29. PMID: 26747896
37. Xu B, Konze KD, Jin J, **Wang GG**. Targeting EZH2 and PRC2 dependency as novel anti-cancer therapy. **Exp. Hematol.** 2015 Aug; 43(8):698-712. PMID: 26027790
38. **Wang GG#**, Konze KD, Tao JG#. Polycomb Genes, miRNA, and Their Deregulation in B-cell Malignancies. **Blood.** 2015; 125(8):1217-25. PMID: 25568352. PMCID: PMC4335077.
39. Xu B*, On DM*, Ma A*, Parton T, Konze KD, Pattenden SG, Allison DF, Cai L, Rockowitz S, Liu S, Liu Y, Li F, Vedadi M, Frye SV, Garcia BA, Zheng D, Jin J, **Wang GG**. Selective inhibition of EZH2 and EZH1 enzymatic activity by a small molecule suppresses MLL-rearranged leukemia. **Blood.** 2015 Jan 8; 125(2):346-57. PMID: 25395428. PMCID: PMC4287641.
40. Zhang ZM, Rothbart SB, Allison DF, Cai Q, Harrison JS, Li L, Wang Y, Strahl BD, **Wang GG**, Song J. An Allosteric Interaction Links USP7 to Deubiquitination and Chromatin Targeting of UHRF1. **Cell Rep.** 2015 Sep 1; 12(9):1400-6. PMID: 26299963
41. Gong H, Qian H, Ertl R, Astle CM, **Wang GG**, Harrison DE, Xu X. Histone modifications change with

- age, dietary restriction and rapamycin treatment in mouse brain. **Oncotarget**. 2015; 6(18):15882-90. PMID: 26021816. PMCID: PMC4599244
42. Gough SM, Lee F, Yang F, Walker RL, Zhu YJ, Pineda M, Onozawa M, Chung YJ, Bilke S, Wagner EK, Denu JM, Ning Y, Xu B, **Wang GG**, Meltzer PS, Aplan PD. NUP98-PHF23 is a chromatin-modifying oncoprotein that causes a wide array of leukemias sensitive to inhibition of PHD histone reader function. **Cancer Discovery**. 2014; 4(5):564-77. PMID: 24535671
43. Lu R, **Wang GG**. Tudor: a versatile family of histone methylation 'readers'. **Trends Biochem Sci**. 2013 Nov; 38(11):546-55. PMID: 24035451
44. Konze KD, Ma A, Li F, Barsyte-Lovejoy D, Parton T, Macnevin CJ, Liu F, Gao C, Huang XP, Kuznetsova E, Rougie M, Jiang A, Pattenden SG, Norris JL, James LI, Roth BL, Brown PJ, Frye SV, Arrowsmith CH, Hahn KM, **Wang GG**, Vedadi M, Jin J. An orally bioavailable chemical probe of the Lysine Methyltransferases EZH2 and EZH1. **ACS Chem Biol**. 2013; 8(6):1324-34.
45. Cai L*, Rothbart SB*, Lu R*, Xu B, Chen WY, Tripathy A, Rockowitz S, Zheng D, Patel DJ, Allis CD, Strahl BD, Song J#, **Wang GG#**. An H3K36 methylation engaging Tudor motif of polycomb-like proteins mediates PRC2 complex targeting. **Mol Cell**. 2013 Feb 7;49(3):571-82. PMID: 23273982.
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50. Ferris AL, Wu X, Hughes CM, Stewart C, Smith SJ, Milne TA, **Wang GG**, Shun MC, Allis CD, Engelman A and Hughes SH. Lens epithelium-derived growth factor fusion proteins redirect HIV-1 DNA integration. **Proc Natl Acad Sci**. 2010,107(7): 3135-40.
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52. **Wang GG**, Song J, Wang Z, Dormann HL, Casadio F, Li H, Luo J, Patel DJ and Allis CD. Haematopoietic malignancies caused by dysregulation of a chromatin-binding PHD finger. **Nature**. 2009, 459(7248):847-851. PMID: 20541251.*
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53. Baker LA, Allis CD# and **Wang GG#**. PHD fingers in human diseases: disorders arising from misinterpreting epigenetic marks. **Mutat Res**. 2008, 647(1-2): 3-12. PMID: 18682256

54. **Wang GG**, Allis CD# and Chi P#. Chromatin remodeling and cancer: covalent histone modifications. **Trends Mol Med.** 2007,13(9):363-72. *With cover illustration.
55. **Wang GG**, Allis CD# and Chi P#. Chromatin remodeling and cancer: ATP-dependent chromatin remodeling. **Trends Mol Med.** 2007, 13(9): 373-80.
56. **Wang GG**, Cai L, Pasillas MP and Kamps MP. NUP98-NSD1 links H3K36 methylation to Hox-A gene activation and leukaemogenesis. **Nature Cell Biol.** 2007,9(7): 804-812. PMID: 17589499
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*News and Views at [Nat Methods](#) 2006; 3(4): 248 – 249.
58. **Wang GG**, Pasillas MP and Kamps MP. Persistent transactivation by Meis1 replaces Hox function in myeloid leukemogenesis models: evidence for co-occupancy of Meis1-Pbx and Hox-Pbx complexes on promoters of leukemia-associated genes. **Mol Cell Biol.** 2007, 26(10): 3902-16. PMID: 16648484
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60. Hacker H, Redecke V, Blagoev B, Kratchmarova I, Hsu LC, **Wang GG**, Kamps MP, Raz E, Wagner H, Hacker G, Mann M and Karin M. Specificity in Toll-like receptor signaling through distinct effector functions of TRAF3 and TRAF6. **Nature** 2006, 439(7073):204-7. PMID: 16306937
61. **Wang GG**, Pasillas MP and Kamps MP#. Meis1 programs transcription of FLT3 and cancer stem cell character, using a mechanism that requires interaction with Pbx and a novel function of the Meis1 C-terminus. **Blood** 2005, 106(1):254-64. PMID: 15755900*
*Editors' views at [Blood](#) 2005; 106(1):6-7.
62. **Wang G**, Zhao Y, Liu X, Wang L, Wu C, Zhang W, Liu W, Zhang P, Cong W, Zhu Y, Zhang L, Chen S, Wan D, Zhao X, Huang W and Gu JR#. Allelic loss and gain, but not genomic instability, as the major somatic mutation in primary hepatocellular carcinoma. **Genes Chromosomes Cancer.** 2001, 31(3):221-7. PMID: 11391792
63. **Wang G**, Huang CH, Zhao Y, Cai L, Wang Y, Xiu SJ, Jiang ZW, Yang S, Zhao T, Huang W and Gu JR#. Genetic aberration in primary hepatocellular carcinoma: correlation between p53 gene mutation and loss-of-heterozygosity on chromosome 16q21-q23 and 9p21-p23. **Cell Res.** 2000, 10(4): 311-23. PMID: 11191353

G. Invention & Patent

Approved/issued

WD40 REPEAT DOMAIN PROTEIN 5 (WDR5) DEGRADATION / DISRUPTION COMPOUNDS AND METHODS OF USE (INTERNATIONAL APPLICATION NO.PCT/US2019/038560); issued to Drs. Jin, **Wang**, Li, Liu, Yu

Pending

HETEROBIFUNCTIONAL COMPOUNDS AS DEGRADERS OF NSD3; issued to Drs. **Wang**, Jin, Xu, Kaniskan, Meng

H. Seminars & speeches (in reverse chronological order)

INVITED PRESENTATIONS - INTERNATIONAL & NATIONAL

4/2-5/2022	Invited Speech as Awardee of 2022 ASBMB Young Investigator, the 2022 ASBMB annual meeting, Philadelphia, PA, USA
12/16/2021	Speech, Epigenetic Mechanisms and Advances in Chromatin Biology, 2021 International Chemical Congress of Pacific Basin Societies, Honolulu, Hawaii, USA (virtual)
11/7-12/2021	Invited Speech, the 2021 EpiCypher Conference on Biological and Clinical Frontiers in Epigenetics, Clearwater Beach, FL, USA
11/4-6/2021	Invited Speech, the 5th International Conference on Epigenetics and Bioengineering (EpiBio 2021), Raleigh, North Carolina, USA (virtual)
10/8-11/2021	Invited Speech, European School of Hematology (ESH), 23rd John Goldman E-Conference on CML: Biology and Therapy, Mandelieu-La Napoule, France (virtual)
10/31/2020	Invited Speech, 7th International Conference in Laboratory Medicine organized by Wenzhou Medical University, Wenzhou, China (virtual)
7/8-12/2019	Invited Talk, 2019 Telluride Symposium on Epigenetic Mechanisms, Telluride, CO, USA
4/28-29/2019	Talk (as symposium co-organizer), 43rd Annual Lineberger Symposium on Dysregulated Signaling Pathways in Cancer, Chapel Hill, NC, USA
11/7/2018	Invited Talk, the 2018 EpiCypher Conference on Biological and Clinical Frontiers in Epigenetics, Nassau, Bahamas
6/20/2018	Talk, the 2018 FASEB Conference on Biological Methylation: Fundamental Mechanisms in Human Health and Disease, Florence, Italy
5/7/2018	Invited Talk (Lightning round), the 12th International Workshop on "Molecular Aspects of Myeloid Stem Cell Development and Leukemia", Cincinnati, OH, USA
4/23/2017	Invited Talk (Spotlight Session), the 17th Annual Meeting of the American Society for Biochemistry and Molecular Biology (ASBMB), Chicago, IL, USA
11/15/2016	Invited Talk, the 7th Annual Medical Symposium of Gabrielle's Angel Foundation for Cancer Research, New York City, NY, USA
4/21-22/2016	Invited Talk (as symposium organizer), the 2016 EpiCypher Conference on Biological and Clinical Frontiers in Epigenetics, San Juan, Puerto Rico
2/9/2015	Invited Talk, the 2015 Workshop on Epigenetic Inhibitors-Target Validation through Chemical Biology, Toronto, Canada
7/7/2014	Invited Talk, the 2014 FASEB meeting on Methylation and Epigenetics, Nassau, Bahamas
4/21/2014	Invited Talk, the 38th Annual Lineberger Symposium on Epigenetics and Cancer, Chapel Hill, NC, USA
9/24/2013	Invited Talk, the 2nd Annual Conference on Targeting Histone Methyltransferases, Boston, MA, USA
9/26/2011	Invited Talk, Annual symposium of Starr Foundation Cancer Consortium, Cold Spring Harbor, NY, USA
6/16/2009	Talk Selected from Abstracts, the 2009 FASEB Conference on "Epigenetics, Chromatin and Transcription", Snowmass, CO, USA
1/6/2008	Invited Talk, the 2nd Genetic Society of America (GSA) Meeting on Model Organisms & Human Biology, San Diego, CA, USA
12/12/2005	Talk Selected from Abstracts, the 47th Annual Meeting of the American Society of Hematology (ASH), Atlanta, GA, USA

INVITED PRESENTATIONS - REGIONAL AND OTHER INVITED PRESENTATIONS

4/27/2022 Invited Seminar, Cancer Biology Seminar Series, University of Chicago, Chicago, IL

3/7/2022 Invited Seminar, Department of Biochemistry and Molecular Biology, Indiana University School of Medicine, Indianapolis, IN

2/7/2022 Invited Seminar, Department of Pathology, University of California San Diego, La Jolla, CA

12/07/2021 Invited Seminar, New York Cancer Genomics Research Network Meeting series, Weill Cornell College of Medicine, New York, NY (virtual)

11/29/2021 Invited Seminar, MRC Weatherall Institute of Molecular Medicine and John Radcliffe Hospital, University of Oxford, Oxford, UK (virtual)

11/16/2021 Invited Seminar, Cancer Research UK Manchester Institute, University of Manchester, Alderly Park, UK (virtual)

10/26/2021 Invited Seminar, Dept. of Biochemistry, University of California, Riverside (virtual)

10/19/2021 Invited Seminar, Genetics Branch, NCI/NIH, Bethesda, MD (virtual)

9/22/2021 Invited Seminar, Van Andel Institute, Grand Rapids, MI (virtual)

9/13/2021 Invited Seminar, Dept. of Biochemistry and Molecular Biology, University of Miami (UM) Miller School of Medicine, Miami, FL (virtual)

7/29/2021 Invited Seminar, Sylvester Comprehensive Cancer Center, University of Miami (UM) Miller School of Medicine, Miami, FL (virtual)

3/24/2021 Seminar, Dept. of Biochemistry & Biophysics and Dept. of Pharmacology, UNC, Chapel Hill, NC

3/17/2021 Distinguished Scientists Seminar Series, Dept. of Molecular & Cellular Oncology, M.D. Anderson Cancer Center, Houston, TX (virtual)

3/9/2021 Invited Seminar, Department of Biochemistry, Purdue University, West Lafayette, IN (virtual)

3/3/2021 Invited Seminar, Department of Biomedical Sciences, School of Medicine and Health Sciences, University of North Dakota, Grand Forks, ND (virtual)

12/9/2020 Invited Speech, the 2020 Korea Research Institute of Bioscience and Biotechnology (KRIBB) Annual Conference, Daejeon, Republic of Korea (virtual)

2/14/2020 Award Seminar, the 2019 UNC Yang Biomedicine Scholar Awardees Presentations, UNC School of Medicine, Chapel Hill, NC

11/4/2019 Award Seminar, the 2019 Hettleman Prize Awardees Presentations, UNC University Research Week, Chapel Hill, NC

5/14/2019 Invited Seminar, Department of Biochemistry and Molecular Medicine & Program in Epigenetics and Regulation, USC Norris Comprehensive Cancer Center, University of Southern California, Los Angeles, CA

5/7/2019 Invited Seminar, Department of Biochemistry, Albert Einstein College of Medicine, Bronx, NY

4/12/2019 Invited Seminar, Distinguished Scholars Seminar Series, Hackensack Meridian Health Center for Discovery and Innovation & HMH Cancer Center, Nutley, NJ

4/1/2019 Invited Seminar, Winthrop P. Rockefeller Cancer Institute and Department of Biochemistry & Molecular Biology, University of Arkansas for Medical Sciences (UAMS), Little Rock, AR

3/7/2019 Interest Group Talk, Carolina Chromatin Consortium (C3), Chapel Hill, NC

2/19/2019 Invited Seminar, Hematologic Malignancies and Cellular Therapies Program, Duke Cancer Institute, Duke University Medical Center, Durham, NC

3/19/2018 Invited Seminar, Laboratory of Chromatin and Gene Expression, NIH/NIEHS, Research Triangle Park, NC

11/13/2017 Invited Seminar, Divisions of Experimental Hematology and Cancer Biology, Cincinnati Children's Hospital Medical Center, Cincinnati, OH

10/10/2017 Annual Retreat Talk, UNC Lineberger Comprehensive Cancer Center, Chapel Hill, NC

6/26/2017 Invited Seminar, Departments of Pharmacological Sciences and Oncological Sciences, Icahn School of Medicine at Mount Sinai, New York City, NY

5/22/2017 Invited Seminar, Cancer Research UK Edinburgh Centre, MRC Centre for Regenerative Medicine & MRC Centre for Reproductive Health, University of Edinburgh, Edinburgh, Scotland, UK

5/15/2017 Invited Seminar Series in Epigenetics, Dept. of Pathology & Yale Cancer Center, Yale Medical School, New Haven, CT

4/12/2017 Invited Seminar, Dept. of Molecular Medicine, University of Texas Health Science Center at San Antonio, San Antonio, TX

12/1/2016 Interest Group Talk, Carolina Chromatin Consortium (C3), Chapel Hill, NC

11/7/2016 Invited Seminar, Dept. of Biochemistry & Molecular Genetics (BMG) Red Banner Seminar Series, University of Alabama at Birmingham (UAB), Birmingham, AL

5/7/2015 Interest Group Talk, Carolina Chromatin Consortium (C3), Chapel Hill, NC

12/1/2014 Annual Retreat Talk, combined Programs in Cell Biology and Molecular Therapeutics, UNC Lineberger Cancer Center, Chapel Hill, NC

6/13/2014 Invited Seminar, Moffitt Cancer Center and University of South Florida (USF), Tampa, FL

2/19/2014 Invited Seminar, Institute of Experimental Cancer Research, University of Ulm, Ulm, Germany

9/16/2013 Invited seminar, Peking-Tsinghua Center for Life Sciences, Peking University, Beijing, China

11/8/2012 Invited Seminar, Section on Chromatin and Gene Expression, National Institute of Environmental Health Sciences (NIEHS), Research Triangle Park, NC

10/28/2012 Annual Retreat Talk, UNC Dept. of Biochemistry & Biophysics, Wilmington, NC

10/23/2012 Invited Seminar, Dept. of Environmental and Molecular Toxicology, North Carolina State University, Raleigh, NC

6/14/2011 Invited Seminar, Dept. of Biochemistry & Molecular Medicine, University of California at Davis School of Medicine, Sacramento, CA

4/6/2011 Invited Seminar, Division of Hematology & Oncology, Children's Hospital Boston, Boston, MA

3/3/2011 Invited Seminar, Lineberger Comprehensive Cancer Center, University of North Carolina at Chapel Hill, Chapel Hill, NC

2/22/2011 Invited Seminar, Dept. of Molecular & Cellular Biology, UC Berkeley, CA

2/14/2011 Invited Seminar, Dept. of Pharmacology & Cancer Biology, Duke University, Durham, NC

2/8/2011 Invited Seminar, Dept. of Biological Chemistry, University of Michigan at Ann Arbor, MI

1/27/2011 Invited Seminar, Skirball Institute, Developmental Genetics Program, New York University, NY

1/24/2011 Invited Seminar, Cancer Biology & Genetics Program, Memorial Sloan-Kettering Cancer Center, NY, NY

1/19/2011 Invited Seminar, Department of Molecular Biology and Green Center of Reproductive Biology, UT Southwestern Medical Center, Dallas, TX

1/11/2011 Invited Seminar, Dept. of Developmental Biology, Washington University, St Louis, MO

12/6/2010 Invited Seminar, Dept. of Cell Biology & Anatomy, University of California at Davis, Davis, CA

11/18/2010 Invited Seminar, Dept. of Biomolecular Chemistry and Wisconsin Institute for Discovery, University of Wisconsin-Madison, Madison, WI

11/9/2010	Invited Seminar, Dept. of Molecular & Cellular Oncology, M.D. Anderson Cancer Center, Houston, TX
9/29/2010	Invited Seminar, Dept. of Therapeutic Radiology, Yale School of Medicine, New Haven, CT
9/16/2010	Invited Seminar, Ontario Cancer Institute & University of Toronto, Toronto, Canada
2/19/2010	Invited Seminar, Wells Center for Pediatric Research, Indiana University-Purdue University at Indianapolis (IUPUI) School of Medicine, Indianapolis, IN

I. Memberships

2012 - present	American Society of Biochemistry & Molecular Biology (ASBMB)
2007 - present	American Association of Cancer Research (AACR)
2003 - present	American Society of Hematology (ASH)

J. Services

Grant review panel

2019 - present	Regular member, NIH Cancer Molecular Pathobiology (CAMP) study section
2016 - 2020	Regular member, American Cancer Society (ACS) Peer Review Committee on DNA Mechanisms in Cancer
2015 - present	<u>Ad hoc review panel for funding agents in USA:</u> NIH Special Emphasis Panel ZRG1 OBT-H (02) M (2019 April); NIH Cancer Molecular Pathobiology (CAMP) study section (2017-2018); UNC's University Cancer Research Fund Stimulus Grants review panel (2016, 2017); NIH Cancer Genetics (CG) study section (2015 Oct)
2011 - present	<u>Ad hoc review panel for funding agents outside of USA:</u> French National Cancer Institute/Institut National du Cancer (INCa), France (2021; 2019; 2018); Swiss National Science Foundation (SNSF) (2021) Worldwide Cancer Research, UK (2019); Medical Research Council (MRC), UK (2018, 2015); Natural Sciences & Engineering Research Council of Canada, Canada (2018, 2017); Cancer Research Wales, UK (2016); European Research Council (ERC) (2013); Kay Kendall Leukemia Fund, UK (2009)

Symposium organizer

April 28-30, 2019	co-organizer, the 43rd Annual Lineberger Symposium on "Dysregulated Signaling Pathways in Cancer: Insights into Novel Mechanisms and Therapeutic Approaches", Chapel Hill, NC
Feb 16, 2018	co-organizer, Abcam Symposium on "Epigenetics, Chromatin Structure and Epi-transcriptomics", research triangle park (RTP), NC
Sept 14, 2015	co-organizer, Abcam Symposium on "The Epigenetics in development, aging and disease", Chapel Hill, NC
April 28-30, 2014	co-organizer, The 38th Annual Lineberger Symposium on "Epigenetics and Cancer", Chapel Hill, NC

Services to professional publications

Ad hoc referee for peer-reviewed manuscripts:

ACS Chemical Biology, Biochemistry, Blood, British Journal of Cancer, Cancer Research, Cell, Cell Chemical Biology, Cell Reports, Cell Research, Current Biology, eLife, Genome Biology, Haematologica, Leukemia, Journal of Cell Biology, Journal of Clinical Investigation, Molecular Cell, PNAS, Nature, Nature Chemical Biology, Nature Communications, Nucleic Acid Research, PLOS Biology, PLOS Genetics, Science, Science Advances, Scientific Reports, Structure

Services to School

UNC at Chapel Hill:

1. UNC Campus:
Admissions Committee, Biological and Biomedical Sciences Program (BBSP) (2012-16)
School of Medicine Conflict of Interest Committee (SOM COIC; 2019-2021)
2. Lineberger Comprehensive Cancer Center:
Overall Strategic Planning Committee (2018)
3. Dept. of Biochemistry and Biophysics:
Committee of PHD qualifying comprehensive examination (2014; 2015; 2021);
Organizer, faculty roundtable (2015 - 2019);
Co-chair, committee of annual retreat (2016; 2017);

K. Teaching activities

2019 - present	Cancer Epigenetics Training Program (CETP) Colloquium; 1 lecture on cancer epigenetics
2018 - present	Biochemistry 702: Advanced Topics on Chromatin and Epigenetics; 1 lecture on cancer epigenetics or chromatin
2017 - present	Pathology 725: Cancer Pathobiology; 1 lecture on cancer epigenetics or chromatin
2013 - present	Biochemistry 706: Biochemistry of Human Disease; 1 lecture and 1 discussion session on cancer unit
2018 - 2020	BBSP 902: Faculty Co-mentor for 1st-year Graduate Students; Meet twice monthly, 2 hrs per mtg
2016 - 2019	Biochemistry 107: Introduction to Biochemistry; 5 lectures and 1 review session on molecular biology unit
2016 - 2019	Biochemistry 108: Introduction to Biochemistry; 5 lectures and 1 review session on molecular biology & gene expression unit
2016 - present	MTEC103.MSK (Medical Science Course 3. Musculo-skeletal Block); 1 small group lecture on case conference
2015 - present	Mentoring Committee on Junior Faculty: Dr. Shenghui He, Assistant Professor (research track), Dept. of Genetics, UNC (2019 – present); Dr. Motoki Takaku, Assistant Professor (tenure track), Dept. of Biomedical Sciences, University of North Dakota (2019 - present)
2012 - present	Informal teaching, serving on Thesis Advisory Committee for PHD students: Elshaimaa Ali (mentor: Dr. Wen Hong, Van Andel Institute; 2021 – present), Yani Zhao (mentor: Dr. Nate Hathaway; 2021 – present), Michael Kelly (mentor: Dr. Hector Franco; 2019 - present), Gabrielle Dardis (mentor: Dr. Albert Baldwin; 2019 - present), Kean Bracerros (mentor: Dr. Mauro Calabrese; Chair, 2019 – present), Nathaniel Wesley (mentor: Dr. Robert McGinty; 2019 – present), Cyril Anyetei-Anum (mentor: Dr. Daniel McKay; 2019 – present), Meng Cheng (mentor: Dr. Albert Baldwin & Dr. Yue Xiong; 2018 – present),

Tamara Vital (mentor: Dr. Ian Davis; 2017 – present),
Cathy J. Anderson (mentor: Dr. Robert McGinty; Chair, 2018 – 2022),
Jibo (Dylan) Zhang (mentor: Dr. Brian Strahl; 2018 – 2021),
Yifei Sun (mentor: Dr. Martin Walsh, Icahn School of Medicine at Mount Sinai; 2017 –19),
Kathryn M. Headley (mentor: Dr. Nate Hathaway; 2016 - 2019),
Astor Ankney (mentor: Dr. Xian Chen; 2016 - 2019),
Hashem Meriesh (mentor: Dr. Brian Strahl; 2016 - 2019),
Andrew Lerner (mentor: Drs. Brian Kuhlman and Brian Strahl; Chair, 2015 - 2019),
Patricia Vignaux (mentor: Dr. Nate Hathaway; 2015 - 2019),
Lauren Waldron (mentor: Dr. Frank Conlon; 2013 - 2015),
Kyle Konze (mentor: Dr. Jian Jin; 2012 - 2015),
Michael Perfetti (mentor: Dr. Stephen Frye; 2012 - 2015),
Yunus Annayev (mentor: Dr. Aziz Sancar; Chair, 2012 - 2014)