

CURRICULUM VITAE

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Present Position: Director
Research Center for Tumor Medical Science
Chair Professor (講座教授)
Graduate Institutes of New Drug Development,
Biomedical Sciences, and Pharmacy
China Medical University
Taichung 404, Taiwan

Education: **M.D.**-1983
School of Medicine
National Taiwan University
Taipei, Taiwan, R.O.C.
Ph.D.-1992
Department of Cell Biology
Baylor College of Medicine
Houston, TX 77030

ACADEMIC APPOINTMENTS:

1. Distinguished Professor (特聘教授)(1/2009-7/20
Institute of Biochemistry and Molecular Biolog
National Yang-Ming University
Taipei 112, Taiwa
2. Director, Genome Research Center (2/2014-7/2014), Cancer Research Center (4/2012-
1/2014)
National Yang-Ming Univ.
Taipei 112, Taiwan
3. Professor (8/2006-12/2008) & Associate Professor (08/2003-07/2006)
Inst. of Biochemistry & Mol. Biology
National Yang-Ming Univ.
Taipei 112, Taiwan
4. Attending Physician (10/2000-07/2003)
Department of Medical Genetics
National Taiwan University Hospital
Taipei 100, Taiwan
5. Postdoctoral Fellow Training: Dept. of Pathology, Columbia University, College of
Physicians and Surgeons, New York, NY, 10/94-08/00.

Research field: molecular mechanism of c-Myc mediated transformation related to different signal transduction pathways, mechanism of senescence and telomerase gene regulation

Research Adviser: Dr. Riccardo Dalla-Favera

6. Resident of Clinical Pathology - Dept. of Pathology, the University of Texas Southwestern Medical Center, Dallas, TX, 09/92-09/94.

7. Resident of Internal Medicine - Veterans General Hospital and National Yang-Ming Medical College, Taipei, Taiwan, R.O.C., 06/85-05/86.

Adjunct positions:

1. Consultant, Taiwan Advance Biopharm, Inc. (8/2003-now)

2. Faculty promotion review committee, Academia Sinica (9/2013-8/2017)

3. Research consulting committee member, Chung-Shan Medical Univ. (2/1/2014-7/31/2016)

4. Adjunct Professor of 生醫科學與工程博士學位學程, National Chiao Tung Univ. (8/2014- now)

5. 國家實驗研究院 國家實驗動物中心諮詢委員(10/2/2015-10/1/2017)

6. Board member, Taiwan Genomics and Genetics Society (台灣基因體暨遺傳學會理事)

Award Reviewing Committee Member:

1. Tsungming Tu Award, Ministry of Science and Technology (2015)

2. Ming-Ning Wang Award

3. Yung-Shin Tien-Te Lee Award

4. Academia Sinica Young Investigator Award

5. 青杏醫學獎

Membership:

American Association for the Advancement of Science (2/2016 to now)

College of American Pathologists

Society of Clinical Pathology in Taiwan

Taiwan Biochemistry Society

Medical License:

Pennsylvania, 058241-L

Taiwan, R.O.C., 011374

Medical Board:

Clinical Pathology, Board certified (ASCP)

Clinical Pathology, Board certified (Taiwan CP)

Ad Hoc Reviewer of International Journals:

1. Oncotarget (2015-2017)

2. BBA-Mol. Basis of Disease (2017)

3. Journal of Biomedical Science (2005, 2008, 2011-2017)

4. Oncogene (2005-2008, 2013, 2016)

5. Cell & Mol. Life Sciences (2016)

6. International J. of Cancer (2016)

7. Scientific Reports (2015)
8. J. Invest. Dermatology (2014)
9. PLoS Genetics (2013)
10. Circulation Research (2013)
11. Molecular and Cellular Biology (2010, 2013)
12. Genome Research (2012)
13. Journal of Molecular Cell Biology (2012)
14. Carcinogenesis (2007-2009, 2011, 2012)
15. British J. of Cancer (2012)
16. BMC Mol. Biology (2012)
17. PLoS One (2010, 2012)
18. Cancer Letters (2012)
19. Journal of the Chinese Med. Association (2012)
20. BMC Cancer (2012, 2013)
21. Journal of Clinical Oncology (2011)
22. Cell Death and Disease (2011)
23. Toxicology Letters (2011)
24. Lung Cancer (2010, 2011)
25. Molecular Cancer Research (2010)
26. Journal of Thoracic Oncology (2010)
27. Lung (2010)
28. Differentiation (2009)
29. Journal of Experimental and Clinical Cancer Research (2009)
30. BMC Cell Biology (2008)
31. Experimental Neurology (2008)
32. Cells, Tissues, Organs (2008)

Honors:

- 61st Academic Award of the Ministry of Education, Taiwan, 2017 (教育部第 61 屆學術獎)
- Outstanding research award of Ministry of Science and Technology, Taiwan, 2015 (行政院科技部 103 年度傑出研究獎)
- Outstanding research award of National Science Council, Taiwan, 2012 (行政院國家科學委員會 100 年度傑出研究獎)
- 2010 Hou Chin Tui Award: Basic science-Biology (2010 年侯金堆傑出榮譽獎-基礎科學：生物類)
- 7th Yu-Ziang Hsu paper award (Science and Technology), Yu-Ziang Hsu Foundation (第七屆有庠科技論文獎, 財團法人徐有庠先生紀念基金會, 2009)
- 4th TienTe Lee Award- Outstanding, 2009 (TienTe Lee Biomedical Foundation) (第四屆永信李天德醫藥基金會卓越醫藥科技獎)
- Outstanding research award of National Science Council, Taiwan, 2009 (行政院國家科學委員會 97 年度傑出研究獎)
- Fellow, Leukemia Society of America, 07/95- 06/98

- Wilton R. Earle Award (Best student paper), Forty-first annual meeting of Tissue Culture Association, 1990.
- Honor B. Fell Award (Best student paper in vertebrate cells, tissue, and organ cultures), Forty-first annual meeting of Tissue Culture Association, 1990.

Publications:

1. Wu, M.Z., Cheng, W.C., Chen, S.F., Nieh, S., O'Connor, C., Liu, C.L., Tsai, W.W., Wu, Martin, L., Lin, Y.S., **Wu, K.J.**, Lu, L.F and Izipisua Belmonte, J.C. (2017) miR25/93 mediates hypoxia-induced immunosuppression by repressing cGAS. *Nature Cell Biology*, 19, 1286-1296.
2. Wu, H.T., Kuo, Y.C., Huang, C.H., Hung, J.J., Chen, W.Y., Chou, T.Y., Chen, Y., Y.J. Chen, Y.J. Chen, Cheng, W.C., Teng, S.C., and **Wu, K.J.** (2016) K63-polyubiquitinated HAUSP deubiquitinates HIF-1 α and dictates H3K56 acetylation promoting hypoxia-induced tumor progression. *Nature Communications*, 7, 13644.
3. Tsai, C.H., Chen, Y.J., Yu, C.J., Kuo, W.H., Lin, M.C., Chan, N.L., **Wu, K.J.**, and Teng, S.C. (2016) SMYD3-Mediated H2A.Z Methylation Promotes Cyclin A1 Expression and Cancer Proliferation, *Cancer Research*, 76, 6043-6053.
4. Wang, J.Q., Wu, M.Z., and **Wu, K.J.** (2016) Analysis of Epigenetic Regulation of Hypoxia-induced Epithelial-Mesenchymal Transition in Cancer Cells by Quantitative Chromatin Immunoprecipitation. *Methods in Molecular Biology*, 1436, 23-9 (invited book chapter).
5. Chen, S.Y., Teng, S.C., Cheng, T.H. and **Wu, K.J.** (2016) MiR-1236 regulates hypoxia-induced epithelial-mesenchymal transition and cell migration/invasion through repressing SENP1 and HDAC3. *Cancer Letters*, 378, 59-67 (2016).
6. Chen, H., and **Wu, K.J.** (2016) Epigenetics, TET proteins, and hypoxia in epithelial-mesenchymal transition and tumorigenesis. *Biomedicine*, 6, 1-8 (review article).
7. Kao, S.H., **Wu, K.J.**, and Lee, W.H. (2016) Hypoxia, Epithelial-Mesenchymal Transition, and TET-mediated Epigenetic Changes, *J. Clinical Medicine*, 5(2), pii: E24 (review article).
8. Chen, H.F. and **Wu, K.J.** (2016) Endothelial transdifferentiation of tumor cells triggered by the Twist1-Jagged1-KLF4 axis: relationship between cancer stemness and angiogenesis. *Stem Cells International*, 2016, 6439864 (Review article).
9. Chung, I.F., Chen, C.Y., Su, S.C., Li, C.Y., **Wu, K.J.**, Wang, H.W., and Cheng, W.C. (2016) DriverDBv2: A database for human cancer driver gene research. *Nucleic Acids Research*, 44 (D1): D975-979.
10. Tseng, J.C., Chen, H.F., and **Wu, K.J.** (2015) A Twist tale of cancer metastasis and tumor angiogenesis. *Histology and Histopathology*, 30, 1283-1294 (review article).
11. Yan, F.Q., Wang, J.Q., Tsai, Y.P., and **Wu, K.J.** (2015) HSP60 overexpression increases the protein levels of the p110 α subunit of phosphoinositide 3-kinase and c-Myc. *Clinical and Experimental Pharmacology and Physiology*, 42, 1092-1097.
12. Kuo, Y.C., Wu, H.T., J.J. Hung, T.Y. Chou, Teng, S.C., and **Wu, K.J.** (2015) Nijmegen breakage syndrome protein 1 (NBS1) modulates hypoxia inducible factor-

- 1a (HIF-1a) stability and promotes *in vitro* migration and invasion under ionizing radiation. *Int. J. Biochemistry & Cell Biology*, 64, 229-238.
13. Wang, J.Q., and **Wu, K.J.** (2015) Epigenetic regulation of epithelial-mesenchymal transition by hypoxia in cancer: targets and therapy. *Current Pharmaceutical Design*, 21, 1272-1278 (Review article).
 14. Chen, H.F., Huang, C.H., Liu, C.J., Hung, J.J., Hsu, C.C., Teng, S.C., and **Wu, K.J.** (2014) Twist1 induces endothelial differentiation of tumor cells through the Jagged1-KLF4 axis. *Nature Communications*, 5, 4697.
 15. Tsai, Y.P., Chen, H.F., Chen, S.Y., W.C. Cheng, H.W. Wang, Z.J. Shen, Teng, S.C., Chuan, H., and **Wu, K.J.** (2014) TET1 regulates hypoxia-induced epithelial-mesenchymal transition by acting as a co-activator. *Genome Biology*, 15, 513.
 16. Hung, J.J., Yeh, Y.C., Jeng, W.J., **Wu, K.J.**, Huang, B.S., Wu, Y.C., Chou, T.Y., and Hsu, W.H. (2014) Predictive Value of the International Association for the Study of Lung Cancer/American Thoracic Society/European Respiratory Society Classification of Lung Adenocarcinoma in Tumor Recurrence and Patient Survival. *J. Clinical Oncology*, 32, 2357-2364.
 17. Khongkow, P., Karunaratna, U., Khongkow, M., Chun, G., Gomes, A., Yague, E. Monteiro, L., Kongsema, M., Zona, S., Man, E., Tsang, J., Coombes, R.C., **Wu, K.J.**, Khoo, U.K., Medema, R., Freire, R. and Lam, E.W.F. (2014) FOXM1 targets NBS1 to regulate DNA damage-induced senescence and epirubicin resistance. *Oncogene*, 33, 4144-4155.
 18. Tsai, Y.P. and **Wu, K.J.** (2014) Epigenetic regulation of hypoxia-responsive gene expression: focusing on chromatin and DNA modifications. *Int. J. Cancer*, 134, 249-256. (Review article)
 19. Hung, J.J., Jeng, W.J., Chou, T.Y., Hsu, W.H., **Wu, K.J.**, Huang, B.S., and Wu, Y.C. (2013) Prognostic value of the new International Association for the Study of Lung Cancer/American Thoracic Society/European Respiratory Society lung adenocarcinoma classification on death and recurrence in completely resected stage I lung adenocarcinoma. *Ann. Surg.* 258, 1079-1086.
 20. Wang, J.Q, Chen, J.H., Chen, Y.C., Chen, M.Y., Hsieh, C.Y., Teng, S.C., and **Wu, K.J.** (2013) Interaction between NBS1 and the mTOR/Rictor/SIN1 complex through specific domains. *PLoS One*, 8, e65586.
 21. Wu, C.Y., Tsai, Y.P., Wu, M.Z., Teng, S.C., and **Wu, K.J.** (2012) Epigenetic reprogramming and post-transcriptional regulation during the epithelial-mesenchymal transition. *Trends in Genetics*, 28, 454-463. (Review article)
 22. Tsai, Y.P., and **Wu, K.J.** (2012) Hypoxia-regulated target genes implicated in cancer metastasis. *J. Biomed. Sci.* 19, 102. (Review article)
 23. Hsu, K.W., Hsieh, R.H., Huang, K.H., Li, A.F., Chi, C.W., Wang, T.Y., Tseng, M.J., **Wu, K.J.**, and Yeh, T.S. (2012) Activation of the Notch1/STAT3/Twist signaling axis promotes gastric cancer progression. *Carcinogenesis*, 33, 1459-1467.
 24. Wu, C.Y., Hung, J.J., and **Wu, K.J.** (2012) Linkage between Twist1 and Bmi1: molecular mechanism of cancer metastasis/stemness and clinical implications. *Clin. Exp. Pharmacol. Physiol.* 39, 668-673. (Review article)
 25. Yang, W.H., Lan, H.Y., Huang, C.H., Tai, S.K., Tzeng, C.H., Kao, S.Y., **Wu, K.J.**, Hung, M.C., and Yang, M.H. (2012) Rac1 activation mediates Twist1-induced cancer cell migration. *Nature Cell Biology*, 14, 366-374.

26. Wu, M.Z., Tsai, Y.P., Yang, M.H., Huang, C.H., Chang, S.Y., Chang, C.C., Teng, S.C., and **Wu, K.J.** (2011) Interplay between HDAC3 and WDR5 is essential for hypoxia-induced epithelial-mesenchymal transition. *Molecular Cell*, 43, 811-822. (Featured Article), Comment on Nature Reviews Cancer, Faculty of 1000 introduction.
27. **Wu, K.J.** and Yang, M.H. (2011) Epithelial-mesenchymal transition and cancer stemness: the Twist1-Bmi1 connection. *Bioscience Reports*, 31, 449-455 (Review article)
28. **Wu, K.J.** (2011) Direct Activation of Bmi1 by Twist1: Implications in Cancer Stemness, Epithelial-Mesenchymal Transition, and Clinical Significance. *Chang Gung Medical Journal*, 34, 229-238. (Review article)
29. Wu, C.Y., Lin, C.T., Wu, M.Z. and **Wu, K.J.** (2011) Induction of HSPA4 and HSPA14 by NBS1 overexpression contributes to NBS1-induced in vitro metastatic and transformation activity. *J. Biomedical Science*, 18, 1-6.
30. Yang, M.H., Hsu, D.S., Wang, H.W., Yang, W.H., Kao, S.Y., Tzeng, C.H., Tai, S.K., Chang, S.Y., O.K. Lee, and **Wu, K.J.** (2010) Bmi1 is essential in Twist1-induced epithelial-mesenchymal transition. (co-corresponding author) *Nature Cell Biology*, 12, 982-992.
31. Wong, C.W., Hou, P.S., Tseng, S.F., Chien, C.L., **Wu, K.J.**, Ho, H.N., Kyo, S., Xie, T., and Teng, S.C. (2010) KLF4 Contributes to Maintenance of Telomerase Activity in Stem Cells. *Stem Cells*, 28, 1510-1517.
32. Hsu, D.S., Lan, H.Y., Huang, C.H., Tai, S.K., Chang, S.Y., Tsai, T.L., Chang, C.C., Tzeng, C.H., **Wu, K.J.**, Kao, J.Y., and Yang, M.H. (2010) Regulation of excision repair cross-complementation group 1 (ERCC1) by Snail contributes to cisplatin resistance in head and neck cancer. *Clin. Cancer Res.* 16, 4561-4571.
33. Hsu, D.S., Chang, S.Y., Liu, C.J., Tzeng, C.H., **Wu, K.J.**, Kao, J.Y., and Yang, M.H. (2010) Identification of increased NBS1 expression as a prognostic marker of surgical-treated squamous cell carcinoma of oral cavity. *Cancer Sci.*, 10, 1029-1037.
34. Huang, C.H., Chen, P.M., Lu, T.C., Kung, W.M., Chiou, T.H., Yang, M.H., Kao, J.Y., and **Wu, K.J.** (2010) Purified recombinant TAT-HOXB4 expands CD34⁺ Umbilical Cord Blood and Peripheral Blood Progenitor Cells *ex vivo*. *Tissue Engineering, Part C Methods*, 16, 487-496.
35. Hung, J.J., Jeng, W.J., Hsu, W.H., **Wu, K.J.**, Chou, T.Y., Hsieh, C.C., Huang, M.H., Liu, J.S., and Wu, Y.C. (2010) Prognostic factors of post-recurrence survival in completely resected stage I non-small cell lung cancer with distant metastasis. *Thorax*, 65, 241-245.
36. Liu, C.J., Tsai, M.M., Hung, P. S., Kao, S.Y., Liu, T.Y., **Wu, K.J.**, Chiou, S.H., Lin, S.C., Chang, K.W. (2010) miR-31 ablates expression of the HIF regulatory factor FIH to activate the HIF pathway in head and neck carcinoma. *Cancer Research*, 70, 1635-1644.
37. Hung, J.J., Yang, M.H., Hsu, H.S., Hsu, W.H., Liu, J.S. and **Wu, K.J.** (2009) Prognostic significance of hypoxia-inducible factor-1 α , TWIST1, and Snail expression in resectable non-small cell lung cancer. *Thorax*, 64, 1082-1089.
38. Hsu, K.W., R.H. Hsieh, C.W. Wu, C.W. Chi, Y.H. Wu-Lee, M.L. Kuo, **K.J. Wu**, and T.S. Yeh (2009) MBP-1 suppresses growth and metastasis of gastric cancer through COX-2. *Mol. Biol. Cell*, 29, 5127-5137.

39. Huang, C.H., Yang, W.H., Chang, S.Y., Tai, S.K., Tzeng, C.H., Kao, J.Y., **Wu, K.J.** and Yang, M.H. (2009) Regulation of membrane-type 4 matrix metalloproteinase (MT4-MMP) by Slug contributes to hypoxia-mediated metastasis. (co-corresponding author). *Neoplasia*, 11, 1371-1382.
40. Tsai, Y.P., Yang, M.H., Huang, C.H., Chang, S.Y., Liu, C.J., Chen, P.M., Teng, S.C., and **Wu, K.J.** (2009) Interaction between HSP60 and β -catenin promotes metastasis. *Carcinogenesis*, 30, 1049-1057.
41. Wu, H.T., Su, Y.N., Hung, C.C., Hsieh, W.S., and **Wu, K.J.** (2009) Interaction between PHOX2B and CREBBP mediates synergistic activation: mechanistic implications of PHOX2B mutants. *Human Mutation*, 30, 655-660.
42. Chen, Y.C., Teng, S.C., **Wu, K.J.** (2009) Phosphorylation of telomeric repeat factor 1 (TRF1) by Akt causes telomere shortening. *Cancer Investigation*, 27, 24-28.
43. Tsai, Y.P., Teng, S.C., and **Wu, K.J.** (2008) Direct regulation of HSP60 expression by c-MYC induces transformation. *FEBS Letters*, 582, 4083-4088.
44. Yang, M.H. and **Wu, K.J.** (2008) TWIST activation by hypoxia inducible factor-1 (HIF-1): implications in metastasis and development. *Cell Cycle*, 7, 2090-2096 (Review article).
45. Yang, M.H., Wu, M.Z., Chiou, S.H., Chang, S.Y., Chen, P.M., Liu, C.J., Teng, S.C., and **Wu, K.J.** (2008) Direct regulation of TWIST by HIF-1 α promotes metastasis. *Nature Cell Biology*, 10, 295-305.
46. Chen, Y.C., Chiang, H.Y., Yang, M.H., Chang, S.Y., Teng, S.C., Vanhaesebroeck, B. and **Wu, K.J.** (2008) Activation of phosphoinositide 3-kinase by the NBS1 DNA repair protein. *J. Mol. Med.* 86, 401-412.
47. Hsu, K.W., Hsieh, R.H., Wu Lee, Y.H., Chao, C.H., **Wu, K.J.**, Tasi, Y.H., Tseng, M.J., Yeh, T.S. (2008) The activated Notch1 receptor cooperates with α -enolase and MBP-1 in modulating *c-myc* oncogene. *Mol. Cell. Biol.* 28, 4829-4842.
48. Smith, J.A., Wang, F.X., Zhang, H., **Wu, K.J.**, Williams, K.J. and Daniel, R. (2008) Evidence that the Nijmegen breakage syndrome protein, an early sensor of double-strand breaks (DSBs), is involved in HIV-1 post-integration repair by recruiting the ataxia telangiectasia-mutated kinase in a process similar to, but distinct from, cellular DSB repair. *Virology Journal*, 5, 11.
49. Chen, C.H., Lu, P.J., Chen, Y.C., Fu, S.L., Yeh, S.F., Tsou, A.P., **Wu, K.J.**, Lee, Y.C.G., Hsu, S.L., Huang, C.Y. and Chou, C.K. (2007) FLJ10540-elicited transformation is through the activation of PI 3-kinase/Akt pathway. *Oncogene*, 26, 4272-4283.
50. Lee, W.J., Chang, W.S., Huang, C.H., and **Wu, K.J.** (2007) NBS1, the Nijmegen breakage syndrome (NBS) gene product, regulates neuronal proliferation and differentiation. *J. Neurochemistry*, 102, 141-152.
51. Yang, M.H., Chang, S.Y., Chiou, S.H., Liu, C.J., Chi, C.W., Chen, P.M., Teng, S.C., and **Wu, K.J.** (2007) Overexpression of NBS1 induces epithelial-mesenchymal transition and co-expression of NBS1 and Snail predicts metastasis of head and neck cancer. *Oncogene*, 26, 1459-1467.
52. S.C. Teng, **K.J. Wu**, S.F. Tseng, L. Kao and C.W. Wong (2006) Importin KPNA2, NBS1, DNA repair and tumorigenesis. *J. Mol. Histology*, 37, 293-299 (Review)

53. Tsai, H.J., Li, T.K., Huang, W.H., Tsai, Y.L., **Wu, K.J.**, Tseng, S.F., and Shu-Chun Teng. (2006) Involvement of topoisomerase III in telomere-telomere recombination. *J. Biol. Chem.* 281, 13717-13723.
54. Yang, M.H., Chiang, W.C., Chou, T.Y., Chang, S.Y., Chen, P.M., Teng, S.C., and **Wu, K.J.** (2006) Increased NBS1 Expression Is a Prognostic Marker of Aggressive Head And Neck Cancer And Overexpression of NBS1 Contributes to Transformation. *Clin. Cancer Res.*, 12, 507-515.
55. Jia, L., Takahashi, M., Hajime Morimoto, H., Sadao Takahashi, S., Izawa, A., Ise, H., Iwasaki, T., Hattori, H., **Wu, K.J.**, and Ikeda. U. (2006) Changes in Cardiac Lipid Metabolism During Sepsis: the essential role of very low density lipoprotein receptor. *Cardiovascular Research.* 69, 545-555.
56. Tseng, S.F., Chang, C.Y., **Wu, K.J.** and Teng, S.C. (2005) Importin KPNA2 is required for proper nuclear localization and multiple functions of NBS1. *J. Biol. Chem.* 280, 39594-39600.
57. Chen, Y.C., Su, Y.N., Chou, P.C., Chiang, W.C., Chang, M.C., Wang, L.S., Teng, S.C., and **Wu, K.J.** (2005) Overexpression of NBS1 contributes to transformation through the activation of phosphatidylinositol 3-kinase/Akt. *J. Biol. Chem.* 280, 32505-32511.
58. Lin, C.Y., Chang, H.H., **Wu, K.J.**, Tseng, S.F., Ling, C.C., Lin, C.P., and Teng, S.C. (2005) Extrachromosomal telomeric circles contribute to Rad52, Rad50 and pol σ -mediated telomere-telomere recombination in *Saccharomyces cerevisiae*. *Eukaryotic Cell*, 4, 327-336.
59. Yu, S.H., Chiang, W.C., Shih, H.M., and **Wu, K.J.** (2004) Stimulation of c-Rel transcriptional activity by PKA catalytic subunit beta (PKA-C β). *J. Mol. Med.* 82, 621-628.
60. Teng, S.C., Chen, Y.Y., Su, Y.N., Chou, P.C., Chiang, Y.C., Tseng, S.F. and **Wu, K.J.** (2004) Direct activation of *HSP90A* transcription by c-MYC contributes to c-MYC mediated transformation. *J. Biol. Chem.* 279, 14649-14655.
61. Grandori, C., **Wu, K.J.**, Fernandez, P., Ngouenet, C., Grim, J., Clurman, B.E., Moser, M.J., Oshima, J., Russell, D.W., Swisshelm, K., Frank, S., Amati, B., Dalla-Favera, R. and Monnat, R.Jr. (2003) Werner syndrome protein limits MYC-induced cellular senescence. *Genes & Dev.*, 17, 1569-1574.
62. Chiang, Y.C., Teng, S.C., Su, Y.N., Hsieh, F.C. and **Wu, K.J.** (2003) c-MYC directly regulates the transcription of *NBS1* gene involved in DNA double-strand break repair. *J. Biol. Chem.* 278, 19286-19291.
63. **Wu, K.J.**, Mattioli, M., Morse, H.C. III and Dalla-Favera, R. (2002) c-MYC activates protein kinase A (PKA) by direct transcriptional activation of the PKA catalytic subunit beta (PKA C β) gene. *Oncogene* 21, 7872-7882.
64. **Wu, K.J.**, Grandori, C., Amacker, M., Simon-Vermot, N., Polack, A., Lingner, J. and Dalla-Favera, R. (1999). Direct activation of *TERT* transcription by c-MYC. *Nature Genet.* 21, 220-224.
65. **Wu, K.J.**, Polack, A., and Dalla-Favera, R. (1999). Coordinated regulation of iron controlling genes, H-ferritin and IRP2, by c-MYC. *Science* 283, 676-679.
66. Iyer, N., Regan, M.S., **Wu, K.J.**, Canagarajah, B., and Friedberg, E.C. (1996). Interactions involving the human RNA polymerase II transcription/nucleotide

excision repair complex TFIIH, the nucleotide repair protein XPG, and Cockayne syndrome group B(CSB) protein. *Biochemistry* 35(7), 2157-2167.

67. **Wu, K.J.**, Wilson,D.R., Shih,C., and Darlington,G.J. (1994). The transcription factor HNF1 acts with C/EBP α to synergistically activate the human albumin promoter through a novel HNF1 protein domain. *J.Biol.Chem.* 269(2), 1177-1182.
68. **Wu, K.J.** (1993). Activation of albumin and other liver-specific gene expression in fibroblast-pancreatic cell hybrids: different roles of transcription factors. *Exp. Cell Res.* 208,241-247.
69. **Wu, K.J.**, Samuelson,L.C., Howard,G., Meisler,M.H., and Darlington,G.J.(1991). Trans-activation of pancreas-specific gene sequences in somatic cell hybrids. *Mol. Cell. Biol.* 11(9), 4423-4430.

Patents obtained:

1	2009	US 8,222,206	Method of Producing Recombinant TAT-HOXB4H Protein for Use as a Stimulant of Hematopoiesis In Vivo
2	2011	US 8,222,207	METHOD OF ENHANCING THE MOBILIZATION OF HEMATOPOIETIC STEM CELLS USING TAT-HOXB4H
3	2011	US 8,124,377	Method of producing TAT-HOXB4H
4	2012	CN101524527 (China)	作為體內造血刺激劑之 TAT-HOXB4H 重組蛋白質及其醫療組成物
5	2012	第 2400565 號 (China)	可供給培養添加物之懸浮性細胞封閉培養系統
6	2012	第 1369990 號 (Taiwan)	活體外經 C 組胺酸標記之 HOXB4H 重組蛋白質促進增生之造血幹細胞及其用途
7	2009	US 8,076,084	Method of predicting metastasis, prognosis and survival of cancer patients
8	2009	4782854 (Japan)	Method of predicting metastasis, prognosis and survival of cancer patients

(The TAT-HOXB4 patents have been obtained from many different countries not listed in the table).