

CURRICULUM VITAE

Name: Woong-Yang Park, M.D., Ph.D.

Work Address:
Samsung Genome Institute
Samsung Medical Center
50 Irwondong, Gangnamgu
Seoul 135-710, KOREA

Education:

- 1988 M.D. Seoul National University, Korea
- 1990 M.Sc (Biochemistry) Seoul National University
- 1995 Ph.D. (Biochemistry) Seoul National University

Board Certification and Licensure:

- 1988 License of Medical Doctor, Korea

Brief Chronology of Employment:

- 1988-1996 Research Assistant/Lecturer, Dong-A University, Korea
- 1997-1998 Postdoctoral Fellow, Rockefeller University, USA
- 1998-2012 Professor, Seoul National University College of Medicine, Korea
- 2004-2006 Visiting Professor, Rockefeller University, USA
- 2008-2010 Associate Dean of Student Affairs, Seoul National University College of Medicine, Korea
- 2010-2012 Chairman, Department of Biomedical Sciences, Seoul National University, Korea
- 2013- Director, Samsung Genome Institute, SMC, Korea
- 2013- Professor, Sungkyunkwan University College of Medicine, Korea

Awards, Scholarships and Other Honors:

- 2002 Young Scientist Award, Korea Society for Biochemistry and Molecular Biology
- 2002 Young Medical Scientist Award, Seoul National University Hospital
- 2004 Visiting Professor Fellowship, LG Foundation
- 2011 Fontier Research Scientist, Korea National Academy of Science and Technology
- 2014 EMM Award, Korea Society for Biochemistry and Molecular Biology

Professional Activities:

- 2012- Member, Scientific Committee, International Rare Disease Research Consortium
- 2014- Member, Editorial Board of Genome Biology

BIBLIOGRAPHY (SCI paper only)

1. **Park WY**, Seo JS. Leucine zipper-like domain regulates the autophosphorylation and the transforming activity of P130gag-fps. *Biochem Biophys Res Commun.* 1995 Jun 15;211(2):447-53.
2. **Park WY**, Kim JI, Shim EH, Lee WH, Kim SH, Seo JW, Jang JJ, Seo JS. Development of thymic carcinoma in transgenic mice expressing SV40 T antigen. *Cancer Lett.* 1996 Oct 22;107(2):293-300.
3. Lee SS, **Park WY**, Chi JG, Seo JW, Kim JI, Kim CW, Park SH, Khang SK, Cho KJ, Seo JS, Jang JJ. Thymic epithelial tumor progression in an SV40T transgenic mouse model. Cortical thymoma-thymic carcinoma sequence. *Virchows Arch.* 1998 Jan;432(1):33-42.
4. **Park WY**, Ahn JH, Feldman RA, Seo JS. c-Fes tyrosine kinase binds to and activates STAT3 after granulocyte-macrophage colony-stimulating factor stimulation. *Cancer Lett.* 1998 Jul 3;129(1):29-37.
5. Kwak HJ, Jun CD, Pae HO, Yoo JC, Park YC, Choi BM, Na YG, Park RK, Chung HT, Chung HY, **Park WY**, Seo JS. The role of inducible 70-kDa heat shock protein in cell cycle control, differentiation, and apoptotic cell death of the human myeloid leukemic HL-60 cells. *Cell Immunol.* 1998 Jul 10;187(1):1-12.
6. Lee WH, Park YM, Kim JI, **Park WY**, Kim SH, Jang JJ, Seo JS. Expression of heat shock protein 70 blocks thymic differentiation of T cells in transgenic mice. *Immunology.* 1998 Dec;95(4):559-65.
7. Ahn JH, Ko YG, **Park WY**, Kang YS, Chung HY, Seo JS. Suppression of ceramide-mediated apoptosis by HSP70. *Mol Cells.* 1999 Apr 30;9(2):200-6.
8. **Park WY***, Okano HJ*, Corradi JP, Darnell RB. The cytoplasmic Purkinje onconeural antigen cdr2 down-regulates c-Myc function: implications for neuronal and tumor cell survival. *Genes Dev.* 1999 Aug 15;13(16):2087-97. *equal contribution
9. **Park WY**, Park JS, Cho KA, Kim DI, Ko YG, Seo JS, Park SC. Up-regulation of caveolin attenuates epidermal growth factor signaling in senescent cells. *J Biol Chem.* 2000 Jul 7;275(27):20847-52.
10. Yeo EJ, Hwang YC, Kang CM, Kim IH, Kim DI, Parka JS, Choy HE, **Park WY**, Park SC. Senescence-like changes induced by hydroxyurea in human diploid fibroblasts. *Exp Gerontol.* 2000 Aug;35(5):553-71.
11. **Park WY**, Hwang CI, Kang MJ, Seo JY, Chung JH, Kim YS, Lee JH, Kim H, Kim KA, Yoo HJ, Seo JS. Gene profile of replicative senescence is different from progeria or elderly donor. *Biochem Biophys Res Commun.* 2001 Apr 13;282(4):934-9.
12. **Park WY**, Cho KA, Park JS, Kim DI, Park SC. Attenuation of EGF signaling in senescent cells by caveolin. *Ann N Y Acad Sci.* 2001 Apr;928:79-84.
13. **Park WY**. Application of DNA chip technology to biomedical research. *Exp Mol Med.* 2001 Apr 21;33(1 Suppl):113-24.
14. Kim YS, Kang D, Kwon DY, **Park WY**, Kim H, Lee DS, Lim CS, Han JS, Kim S, Lee JS. Uteroglobin gene polymorphisms affect the progression of immunoglobulin A nephropathy by modulating the level of uteroglobin expression. *Pharmacogenetics.* 2001 Jun;11(4):299-305.
15. **Park WY**, Park JS, Cho KA, Kim DI, Jhun BH, Kim SR, Park SC. Related Down-regulation of amphiphysin-1 is responsible for reduced receptor-mediated endocytosis in the senescent cells. *FASEB J.* 2001 Jul;15(9):1625-7.

16. Park SC, Park JS, **Park WY**, Cho KA, Ahn JS, Jang IS. Down-regulation of receptor-mediated endocytosis is responsible for senescence-associated hyporesponsiveness. *Ann N Y Acad Sci.* 2002 Apr;959:45-9.
17. Kang MJ, Ahn HS, Lee JY, Matsuhashi S, **Park WY**. Up-regulation of PDCD4 in senescent human diploid fibroblasts. *Biochem Biophys Res Commun.* 2002 Apr 26;293(1):617-21.
18. Kim SU, Park SK, Yoo KY, Yoon KS, Choi JY, Seo JS, **Park WY**, Kim JH, Noh DY, Ahn SH, Choe KJ, Strickland PT, Hirvonen A, Kang D. XRCC1 genetic polymorphism and breast cancer risk. *Pharmacogenetics.* 2002 Jun;12(4):335-8.
19. Kang CM, Park KP, Cho CK, Seo JS, **Park WY**, Lee SJ, Lee YS. Hspa4 (HSP70) is involved in the radioadaptive response: results from mouse splenocytes. *Radiat Res.* 2002 Jun;157(6):650-5.
20. Park TW, Yoon KS, Kim JH, **Park WY**, Hirvonen A, Kang D. Functional catechol-O-methyltransferase gene polymorphism and susceptibility to schizophrenia. *Eur Neuropsychopharmacol.* 2002 Aug;12(4):299-303.
21. Shim EH, Kim JI, Bang ES, Heo JS, Lee JS, Kim EY, Lee JE, **Park WY**, Kim SH, Kim HS, Smithies O, Jang JJ, Jin DI, Seo JS. Targeted disruption of hsp70.1 sensitizes to osmotic stress. *EMBO Rep.* 2002 Sep;3(9):857-61.
22. **Park WY**, Hwang CI, Im CN, Kang MJ, Woo JH, Kim JH, Kim YS, Kim JH, Kim H, Kim KA, Yu HJ, Lee SJ, Lee YS, Seo JS. Identification of radiation-specific responses from gene expression profile. *Oncogene.* 2002 Dec 5;21(55):8521-8.
23. Jeong JS, Lee SH, Jung KJ, Choi YC, **Park WY**, Kim IH, Kim SS. Hepatotoxin N-nitrosomorpholine-induced carcinogenesis in rat liver: ex vivo exploration of preneoplastic and neoplastic hepatocytes. *Exp Mol Pathol.* 2003 Feb;74(1):74-83.
24. Kim SH, Koh GY, Cho KW, **Park WY**, Seo JS. Stretch-activated atrial natriuretic peptide secretion in atria with heat shock protein 70 overexpression. *Exp Biol Med (Maywood).* 2003 Feb;228(2):200-6.
25. Lee KM, Abel J, Ko Y, Harth V, **Park WY**, Seo JS, Yoo KY, Choi JY, Shin A, Ahn SH, Noh DY, Hirvonen A, Kang D. Genetic polymorphisms of cytochrome P450 19 and 1B1, alcohol use, and breast cancer risk in Korean women. *Br J Cancer.* 2003 Mar 10;88(5):675-8.
26. Seol JY, Park KH, Hwang CI, **Park WY**, Yoo CG, Kim YW, Han SK, Shim YS, Lee CT. Adenovirus-TRAIL can overcome TRAIL resistance and induce a bystander effect. *Cancer Gene Ther.* 2003 Jul;10(7):540-8.
27. Kim J, Chung HJ, Park CH, **Park WY**, Kim JH. ChromoViz: multimodal visualization of gene expression data onto chromosomes using scalable vector graphics. *Bioinformatics.* 2004 May 1;20(7):1191-2.
28. Choi SE, Choi KM, Yoon IH, Shin JY, Kim JS, **Park WY**, Han DJ, Kim SC, Ahn C, Kim JY, Hwang ES, Cha CY, Szot GL, Yoon KH, Park CG. IL-6 protects pancreatic islet beta cells from pro-inflammatory cytokines-induced cell death and functional impairment in vitro and in vivo. *Transpl Immunol* 2004 Jun-Jul;13(1):43-53.
29. Kim KW, Suh YJ, **Park WY**, Jhoo JH, Lee DY, Youn JC, Lee KH, Seo JS, Woo JI. Choline acetyltransferase G +4 A polymorphism confers a risk for Alzheimer's disease in concert with Apolipoprotein E epsilon4. *Neurosci Lett.* 2004 Aug 12;366(2):182-6.
30. Kim JH, Ha IS, Hwang CI, Lee YJ, Kim J, Yang SH, Kim YS, Cao YS, Choi S, **Park WY**. Gene expression profiling of anti-GBM glomerulonephritis model: the role of NF κ B in immune complex-mediated kidney disease. *Kidney Int.* 2004 Nov;66(5):1826-37.
31. Lee SA, Lee KM, **Park WY**, Kim B, Nam J, Yoo KY, Noh DY, Ahn SH, Hirvonen A, Kang D. Obesity and genetic polymorphism of ERCC2 and ERCC4 as modifiers of risk of breast cancer. *Exp Mol Med.* 2005 Apr

30;37(2):86-90.

32. Jhoo JH, **Park WY**, Kim KW, Lee KH, Lee DY, Youn JC, Choo IH, Seo JS, Woo JI. Lack of association of cathepsin D genetic polymorphism with Alzheimer's disease in Koreans. *Arch Gerontol Geriatr*. 2005 Sep-Oct;41(2):121-7.
33. Kang MJ, Chung YH, Hwang CI, Murata M, Fujimoto T, Mook-Jung IH, Cha CI, **Park WY**. Caveolin-1 upregulation in senescent neurons alters amyloid precursor protein processing. *Exp Mol Med*. 2006 Apr 30;38(2):126-33.
34. Kang MJ, Seo JS, **Park WY**. Caveolin-1 inhibits neurite growth by blocking Rac1/Cdc42 and p21-activated kinase 1 interactions. *Neuroreport*. 2006 May 29;17(8):823-7.
35. Lee MS, Jun DH, Hwang CI, Park SS, Kang JJ, Park HS, Kim J, Kim JH, Seo JS, **Park WY**. Selection of neural differentiation-specific genes by comparing profiles of random differentiation. *Stem Cells*. 2006 Aug;24(8):1946-55.
36. Kim SH, Hwang CI, Juhnn YS, Lee JH, **Park WY**, Song YS. GADD153 mediates celecoxib-induced apoptosis in cervical cancer cells. *Carcinogenesis*. 2007 Jan;28(1):223-31.
37. Kim N*, **Park WY***, Kim JM, Park YS, Lee DH, Park JH, Kim JS, Jung HC, Song IS. Analysis of Gene Expression Profile of AGS Cells Stimulated by Helicobacter pylori Adhesion. *Gut Liver* 2007; 1(1):40-48
*equal contribution
38. Choe J, Kang JK, Bae CJ, Lee DS, Hwang D, Kim KC, **Park WY**, Lee JH, Seo JS. Identification of origin of unknown derivative chromosomes by array-based comparative genomic hybridization using pre- and postnatal clinical samples. *Hum Genet*. 2007;52(11):934-42.
39. Jin YW, Na YJ, Lee YJ, An S, Lee JE, Jung M, Kim H, Nam SY, Kim CS, Yang KH, Kim SU, Kim WK, **Park WY**, Yoo KY, Kim CS, Kim JH. Comprehensive analysis of time- and dose-dependent patterns of gene expression in a human mesenchymal stem cell line exposed to low-dose ionizing radiation. *Oncol Rep*. 2008 Jan;19(1):135-44.
40. Lee HY, Youn SW, Kim JY, Park KW, Hwang CI, **Park WY**, Oh BH, Park YB, Walsh K, Seo JS, Kim HS. FOXO3a turns the tumor necrosis factor receptor signaling towards apoptosis through reciprocal regulation of c-Jun N-terminal kinase and NF-kappaB. *Arterioscler Thromb Vasc Biol*. 2008 Jan;28(1):112-20.
41. Lee HY, You HJ, Won JY, Youn SW, Cho HJ, Park KW, **Park WY**, Seo JS, Park YB, Walsh K, Oh BH, Kim HS. Forkhead Factor, FOXO3a, Induces Apoptosis of Endothelial Cells Through Activation of Matrix Metalloproteinases. *Arterioscler Thromb Vasc Biol*. 2008 Feb;28(2):302-8.
42. Kong DS, Kim MH, **Park WY**, Suh YL, Lee JI, Park K, Kim JH, Nam DH. The progression of gliomas is associated with cancer stem cell phenotype. *Oncol Rep*. 2008 Mar;19(3):639-43.
43. Kim N*, **Park WY***, Kim JM, Park JH, Kim JS, Jung HC, Song IS. Gene expression of AGS cells stimulated with released proteins by Helicobacter pylori. *J Gastroenterol Hepatol*. 2008 Apr;23(4):643-51. *equal contribution
44. Kim TH, Huang TQ, Jang JJ, Kim MH, Kim HJ, Lee JS, Pack JK, Seo JS, **Park WY**. Local exposure of 849 MHz and 1763 MHz radiofrequency radiation to mouse heads does not induce cell death or cell proliferation in brain. *Exp Mol Med*. 2008 Jun 30;40(3):294-303
45. Nam DH, Jeon HM, Kim SY, Kim MH, Lee YJ, Lee MS, Kim HG, Joo KM, DS Lee, Price JE, Bang SI, **WY Park**. Activation of Notch signaling in a xenograft model for brain metastasis. *Clin Cancer Res*. 2008 Jul;14(13):4059-4066

46. Jeon HM, Jin X, Lee JS, Oh SY, Sohn YW, Park HJ, Joo KM, **Park WY**, Nam DH, Depinho RA, Chin L, Kim H. Inhibitor of differentiation 4 drives brain tumor-initiating cell genesis through cyclin E and notch signaling. *Genes Dev.* 2008 Aug 1;22(15):2028-33.
47. Joo KM, Kim SY, Jin X, Song SY, Kong DS, Lee JI, Jeon JW, Kim MH, Kang BG, Jung Y, Jin J, Hong SC, **Park WY**, Lee DS, Kim H, Nam DH. Clinical and biological implications of CD133-positive and CD133-negative cells in glioblastomas. *Lab Invest.* 2008 Aug;88(8):808-15.
48. Huang TQ, Lee MS, Lee JS, Seo JS, **Park WY**. Molecular responses of Jurkat T-cells to 1763 MHz radiofrequency radiation. *Int J Radiation Biol.* 2008 Sep;84(9):734-41.
49. Huang TQ, Lee MS, Lee JS, Seo JS, **Park WY**. Characterization of biological effect of 1,763 MHz radiofrequency exposure on auditory hair cells. *Int J Radiation Biol.* 2008 Nov;84(11):909-15.
50. Chae MJ, Sung HY, Lee M, Kim EH, Kwak H, Chae CH, Kim S, **Park WY**. Chemical inhibitors destabilize HuR binding to the AU-rich element of TNF- α mRNA. *Exp Mol Med.* 2009 Nov 30;41(11):824-31.
51. Jeong SH, Wu HG, **Park WY**. LIN28B confer radio-resistance through the posttranscriptional control of KRAS. *Exp Mol Med.* 2009 Dec 31;41(12):912-8.
52. Kim JI, Ju YS, Park H, Kim S, Lee S, Yi JH, Mudge J, Miller NA, Hong D, Bell CJ, Kim HS, Chung IS, Lee WC, Lee JS, Seo SH, Yun JY, Woo HN, Lee H, Suh D, Lee S, Kim HJ, Yavartanoo M, Kwak M, Zheng Y, Lee MK, Park H, Kim JY, Gokcumen O, Mills RE, Zarnek AW, Thakuria J, Wu X, Kim RW, Huntley JJ, Luo S, Schroth GP, Wu TD, Kim H, Yang KS, **Park WY**, Kim H, Church GM, Lee C, Kingsmore SF, Seo JS. A highly annotated whole-genome sequence of a Korean individual. *Nature.* 2009 Aug 20;460(7258):1011-5.
53. Na YJ, Sung JH, Lee SC, Lee YJ, Choi YJ, **Park WY**, Shin HS, Kim JH. Comprehensive analysis of microRNA-mRNA co-expression in circadian rhythm. *Exp Mol Med.* 2009 Sep 30;41(9):638-47.
54. Kwak H, Jeong KC, Chae MJ, Kim SY, **Park WY**. Flavonoids inhibit the AU-rich element binding of HuC. *BMB Rep.* 2009 Jan 31;42(1):41-6.
55. Kim EH, Park AK, Dong SM, Ahn JH, **Park WY**. Global analysis of CpG methylation reveals epigenetic control of the radiosensitivity in lung cancer cell lines. *Oncogene.* 2010 Jun 19; 29(13):4725-4731
56. Lim BC, Ki CS, Kim JW, Cho A, Kim MJ, Hwang H, Kim KJ, Hwang YS, **Park WY**, Lim YJ, Kim IO, Lee JS, Chae JH. Fukutin mutations in congenital muscular dystrophies with defective glycosylation of dystroglycan in Korea. *Neuromuscul Disord.* 2010 Aug 1;20(8):524-530
57. Sung HY, Wu HG, Ahn JH, **Park WY**. Dcr3 inhibit p53-dependent apoptosis in gamma-irradiated lung cancer cells. *Int J Radiat Biol.* 2010 Jul 5. 86(9):780-90
58. Cho TJ, Kim OH, Lee HR, Shin SJ, Yoo WJ, **Park WY**, Park SS, Cho SI, Choi IH. Autosomal recessive multiple epiphyseal dysplasia in a Korean girl caused by novel compound heterozygous mutations in the DTDST (SLC26A2) gene. *J Korean Med Sci.* 2010 Jul;25(7):1105-8.
59. Cho TJ, Kim OH, Choi IH, Nishimura G, Superti-Furga A, Kim KS, Lee YJ, **Park WY**. A dominant mesomelic dysplasia associated with a 1.0-Mb microduplication of HOXD gene cluster at 2q31.1. *J Med Genet.* 2010 Sep 1;47(9):638-639
60. Kim YH, Kim MA, Park IA, **Park WY**, Kim JW, Kim SC, Park NH, Song YS, Kang SB. VEGF polymorphisms in early cervical cancer susceptibility, angiogenesis, and survival. *Gynecol Oncol.* 2010 Nov;119(2):232-6
61. Kim YH, Park IA, **Park WY**, Kim JW, Kim SC, Park NH, Song YS, Kang SB. Hypoxia inducible factor-1a (HIF-1a) polymorphisms and early cervical cancer. *Int J Gynecol Cancer.* 2011 Jan;21(1):2-7

62. Lim BC, **Park WY**, EJ Seo, Kim KJ, Hwang YS, Chae JH. De novo interstitial deletion of 3q22.3-q25.2 encompassing FOXL2, ATR, ZIC1 and ZIC4 in a patient with blepharophimosis, ptosis, epicanthus inversus syndrome, Dandy-Walker malformation, and global developmental delay. *J Child Neurol*. 2011 May;26(5):615-8.
63. Kim HY, Park AK, Yang SD, **Park WY**, Yoon YG. Comparative analysis of gene expression profiles of papillary thyroid microcarcinoma and papillary thyroid carcinoma. *J Cancer Res Ther*. 2010 Oct-Dec;6(4):452-7
64. Jin X, Jeon HY, Joo KM, Kim JK, Jin JY, Kim SH, Kang BG, Beck S, Lee SJ, Kim JK, **Park WY**, Choi YJ, Nam DH, Kim HG. Frizzled 4 regulates stemness and invasiveness of migrating glioma cells established by serial in vivo intracranial transplantation. *Cancer Res*. 2011 Apr 15;71(8):3066-75.
65. Shin CM, Kim N, Jung Y, Park JH, Kang GH, **Park WY**, Kim JS, Jung HC, Song IS. Genome-wide DNA methylation profiles in noncancerous gastric mucosae in Helicobacter pylori-induced gastric carcinogenesis. *Helicobacter* 2011 16(3):179-88
66. Arora H, Qureshi R, Park AK, Ahn JH, **Park WY**. miR-9 and let-7g enhance the sensitivity to ionizing radiation by suppression of NFKB1. *Exp Mol Med* 2011;43(5):298-304.
67. Kim KH, Yoo HY, Joo KM, Jung Y, Jin J, Kim Y, Yoon SJ, Choi SH, Seol HJ, **Park WY***, Nam DH*. Time-course analysis of DNA-damage response-related genes after in vitro radiation in H460 and H1229 lung cancer cell lines. *Exp Mol Med* 2011 43(7):419-26 *co-corresponding author
68. Arora H, Qureshi R, Park AK, **Park WY**. Coordinated regulation of ATF2 by miR-26b in γ -irradiated lung cancer cells. *PLoS ONE* 2011;6(8):e23802
69. Yoon SY, Kim KT, Jo SJ, Cho AR, Jeon SI, Choi HD, Kim KH, Park GS, Pack JK, Kwon OS, **Park WY**. Induction of hair growth by insulin-like growth factor-1 in 1,763 MHz radiofrequency-irradiated hair follicle cells. *PLoS One*. 2011;6(12):e28474.
70. Min BJ, Kim NS, Chung T, Nishimura G, Chung JY, Song HR, Lim HW, Lee HR, Kim JW, Kang TH, Seo ME, Yang SD, Kim DH, Lee SB, Kim JI, Seo JS, Choi JY, Kang DH, Kim DS, **Park WY***, Cho TJ*. Whole-Exome Sequencing Identifies Mutations of KIF22 in Spondyloepimetaphyseal Dysplasia with Joint Laxity, Leptodactylic Type. *Am J Hum Genet*. 2011;89, 760-766 *co-corresponding author
71. Park AK, Lee SJ, Phi JH, Wang KC, Kim DK, Cho BK, Haberler C, Fattet S, Dufour C, Puget S, Sainte-Rose C, Doz F, Grill J, Delattre O, Kim SK, **Park WY**. Prognostic classification of pediatric medulloblastoma based on expression of chromosome 17p, MYC/MYCN, and WNT. *Neuro-Oncology* 2012 Feb;14(2):203-14.
72. Yang YI, Shin HC, Kim SH, **Park WY**, Lee KT, Choi JH. 6,6'-Bieckol, isolated from marine alga Ecklonia cava, suppressed LPS-induced nitric oxide and PGE(2) production and inflammatory cytokine expression in macrophages: The inhibition of NF κ B. *Int Immunopharmacol*. 2012, 12(3):510-7
73. Kim HC, Lee JY, Sung H, Choi JY, Park SK, Lee KM, Kim YJ, Go MJ, Li L, Cho YS, Park M, Kim DJ, Oh JH, Kim JW, Jeon JP, Jeon SY, Min H, Kim HM, Park J, Yoo KY, Noh DY, Ahn SH, Lee MH, Kim SW, Lee JW, Park BW, **Park WY**, Kim EH, Kim MK, Han W, Lee SA, Matsuo K, Shen CY, Wu PE, Hsiung CN, Lee JY, Kim HL, Han BG, Kang D. A genome-wide association study identifies breast cancer risk variant in ERBB4 at 2q34: results from the Seoul Breast Cancer Study. *Breast Cancer Res*. 2012, 14(2):R56
74. Takwi AL, Yan Li Y, Buscaglia LEB, Zhang J, Liu M, Young KH, Park AK, **Park WY**, Martin RCG, Li Y. A statin-regulated microRNA represses human c-Myc expression and function. *EMBO Mol Med*. 2012, 4(9):896-909.
75. Cho TJ, Lee KE, Lee SK, Song SJ, Kim KJ, Jeon DH, Lee G, Kim HN, Lee HR, Eum HH, Lee ZH, Kim OH, **Park WY**, Park SS, Yoo WJ, Choi IH, Kim JW. A single recurrent mutation in the 5'-UTR of IFITM5 causes

osteogenesis imperfecta type V. *Am J Hum Genet* 2012; 91(2):343-8

76. Ince-Dunn G, Okano HJ, Jensen KB, **Park WY**, Zhong R, Ule J, Mele A, Fak JJ, Yang C, Zhang C, Yoo J, Okano H, Noebels JL, Darnell RB. HITS-CLIP reveals nElavl (Hu) proteins regulate RNA splicing and abundance to control brain glutamate levels and neuronal excitability. *Neuron* 2012; 75(6):1067-80
77. Choi DH, Son H, Jung S, Park J, **Park WY**, Kwon OS, Park GS. Water reorientation dynamics change upon phase transition of a lipid bilayer probed by terahertz time domain spectroscopy. *J Chem Phys* 2012; 137(17):175101
78. Park YR, Chung TS, Lee YJ, Song YW, Lee EY, Sohn YW, Song S, **Park WY**, Kim JH. Prediction of Microbial Infection of Cultured Cells Using DNA Microarray Gene-Expression Profiles of Host Responses. *J Korean Med Sci* 2012; 27(10):1129-36
79. Joo KM, Kim J, Jin J, Kim M, Seol HJ, Muradov J, Yang H, Choi YL, **Park WY**, Kong DS, Lee JI, Ko YH, Woo HG, Lee J, Kim S, Nam DH. Patient-specific orthotopic glioblastoma xenograft models recapitulate the histopathology and biology of human glioblastomas in situ. *Cell Rep*. 2013 Jan 31;3(1):260-73.
80. Choi BY, Kim DH, Chung T, Chang M, Kim EH, Kim AR, Seok J, Chang SO, Bok J, Kim D, Oh SH, Park WY. Destabilization and mislocalization of POU3F4 by C-terminal frameshift truncation and extension mutation. *Hum Mutat*. 2013 Feb;34(2):309-16.
81. Narumi Y, Min BJ, Shimizu K, Kazukawa I, Sameshima K, Nakamura K, Kosho T, Rhee Y, Chung YS, Kim OH, Fukushima Y, **Park WY***, Nishimura G*. Clinical consequences in truncating mutations in exon 34 of NOTCH2: report of six patients with Hajdu-Cheney syndrome and a patient with serpentine fibula polycystic kidney syndrome. *Am J Med Genet A*. 2013 Mar;161A(3):518-26. *co-corresponding author
82. Park G, Gim J, Kim AR, Han KH, Kim HS, Oh SH, Park T, **Park WY***, Choi BY*. Multiphasic analysis of whole exome sequencing data identifies a novel mutation of ACTG1 in a nonsyndromic hearing loss family. *BMC Genomics*. 2013 Mar 18;14:191. *co-corresponding author
83. Kim KT, Park J, Jo SJ, Jung S, Kwon OS, Gallerano GP, **Park WY***, Park GS*. High-power femtosecond-terahertz pulse induces a wound response in mouse skin. *Sci Rep*. 2013;3:2296. *co-corresponding author
84. Joo K, Kim CG, Lee MS, Moon HY, Lee SH, Kim MJ, Kweon HS, **Park WY**, Kim CH, Gleeson JG, Kim J. CCDC41 is required for ciliary vesicle docking to the mother centriole. *Proc Natl Acad Sci U S A*. 2013 Apr 9;110(15):5987-92.
85. Kim SY, Park G, Han KH, Kim A, Koo JW, Chang SO, Oh SH, **Park WY***, Choi BY*. Prevalence of p.V37I variant of GJB2 in mild or moderate hearing loss in a pediatric population and the interpretation of its pathogenicity. *PLoS One*. 2013 Apr 25;8(4):e61592. *co-corresponding author
86. Arora H, Qureshi R, **Park WY**. miR-506 regulates epithelial mesenchymal transition in breast cancer cell lines. *PLoS One*. 2013 May 22;8(5):e64273.
87. Choi BY, Park G, Gim J, Kim AR, Kim BJ, Kim HS, Park JH, Park T, Oh SH, Han KH, **Park WY**. Diagnostic application of targeted resequencing for familial nonsyndromic hearing loss. *PLoS One*. 2013 Aug 22;8(8):e68692.
88. Kim HJ, Park G, Jeon BS, **Park WY**, Kim YE. A mir-153 binding site variation in SNCA in a patient with Parkinson's disease. *Mov Disord*. 2013 Oct;28(12):1755-6.
89. Min BJ, Ko JM, Seo ME, Choi JS, Oh SK, Jeon J, Kim E, Moon JE, Choi IH, Lee C, Kim OH, Cho TJ, **Park WY**. An interstitial, apparently-balanced chromosomal insertion in the etiology of Langer-Giedion syndrome in an Asian family. *Eur J Med Genet*. 2013 Oct;56(10):561-5.

90. Hoover-Fong J, Sobreira N, Jurgens J, Modaff P, Blout C, Moser A, Kim OH, Cho TJ, Cho SY, Kim SJ, Jin DK, Kitoh H, **Park WY**, Ling H, Hetrick KN, Doheny KF, Valle D, Pauli RM. Mutations in PCYT1A, encoding a key regulator of phosphatidylcholine metabolism, cause spondylometaphyseal dysplasia with cone-rod dystrophy. *Am J Hum Genet.* 2014 Jan 2;94(1):105-12.
91. Kang HS, Moon YJ, Kim YY, **Park WY**, Park AK, Wang KC, Kim JE, Phi JH, Lee JY, Kim SK. Smooth-muscle progenitor cells isolated from patients with moyamoya disease: novel experimental cell model. *J Neurosurg.* 2014 Feb;120(2):415-25.
92. Lim BC, Min BJ, **Park WY**, Oh SK, Woo MJ, Choi JS, Kim KJ, Hwang YS, Chae JH. A unique phenotype of 2q24.3-2q32.1 duplication: early infantile epileptic encephalopathy without mesomelic dysplasia. *J Child Neurol.* 2014 Feb;29(2):260-4.
93. Choi HR, Nam KM, Park SJ, Kim DS, Huh CH, **Park WY**, Park KC. Suppression of miR135b increases the proliferative potential of normal human keratinocytes. *J Invest Dermatol.* 2014 Apr;134(4):1161-4.
94. Jo SJ, Yoon SY, Lee JY, Kim KT, Jung S, Park J, Park GS, **Park WY**, Kwon O. Biological effects of femtosecond-terahertz pulses on C57BL/6 mouse skin. *Ann Dermatol.* 2014 Feb;26(1):129-32.
95. Lee JY, Park AK, Lee ES, **Park WY**, Park SH, Choi JW, Phi JH, Wang KC, Kim SK. miRNA expression analysis in cortical dysplasia: regulation of mTOR and LIS1 pathway. *Epilepsy Res.* 2014 Mar;108(3):433-41.
96. Park JM, Kim MS, Moon HS, Yoo CE, Park D, Kim YJ, Han KY, Lee JY, Oh JH, Kim SS, **Park WY**, Lee WY, Huh N. Fully automated circulating tumor cell isolation platform with large-volume capacity based on lab-on-a-disc. *Anal Chem.* 2014 Apr 15;86(8):3735-42.
97. Cho J, Bass AJ, Lawrence MS, Cibulskis K, Cho A, Lee SN, Yamauchi M, Wagle N, Pochanard P, Kim N, Park AK, Won J, Hur HS, Greulich H, Ogino S, Sougnez C, Voet D, Tabernero J, Jimenez J, Baselga J, Gabriel SB, Lander ES, Getz G, Eck MJ, **Park WY**, Meyerson M. Colon cancer-derived oncogenic EGFR G724S mutant identified by whole genome sequence analysis is dependent on asymmetric dimerization and sensitive to cetuximab. *Mol Cancer.* 2014 Jun 4;13(1):141.
98. Kim YJ, Koo GB, Lee JY, Moon HS, Kim DG, Lee DG, Lee JY, Oh JH, Park JM, Kim MS, Woo HG, Kim SI, Kang P, Choi W, Sim TS, **Park WY**, Lee JG, Kim YS. A microchip filter device incorporating slit arrays and 3-D flow for detection of circulating tumor cells using CAV1-EpCAM conjugated microbeads. *Biomaterials.* 2014 Aug;35(26):7501-10
99. Choi JW, Min B, Kim A, Koo JW, Kim CS, **Park WY**, Chung J, Kim V, Ryu YJ, Kim SH, Chang SO, Oh SH, Choi BY. De Novo Large Genomic Deletions Involving POU3F4 in Incomplete Partition Type III Inner Ear Anomaly in East Asian Populations and Implications for Genetic Counseling. *Otol Neurotol.* 2014 Mar 6. *in press*
100. Chung J, Park SM, Chang SO, Chung T, Lee KY, Kim AR, Park JH, Kim V, **Park WY**, Oh SH, Kim D, Park WJ, Choi BY. A novel mutation of TMPRSS3 related to milder auditory phenotype in Korean postlingual deafness: a possible future implication for a personalized auditory rehabilitation. *J Mol Med (Berl).* 2014 Jun;92(6):651-63.
101. An JH, Ohn JH, Song JA, Yang JY, Park H, Choi HJ, Kim SW, Kim SY, **Park WY**, Shin CS, Changes of microRNA profile and microRNA-mRNA regulatory network in bones of ovariectomized mice. *J Bone Mineral Res.* 2014 Mar; 29(3):644-656
102. Park JH, Kim N, Kim AR, Rhee J, Oh SH, Nam JY, **Park WY**, Choi BY, Exploration of Molecular Genetic Etiology for Cochlear Implantees with Severe to Profound Hearing Loss and its Implication. *Orphanet J Rare Dis.* 2014 Nov 6;9(1):167.
103. Park G, Kim TH, Lee HO, Lim JA, Min HS, Lee KE, Park DJ, Park YJ, **Park WY**. Standard

immunohistochemistry efficiently detects ALK rearrangements in differentiated thyroid cancer. *Endocr Relat Cancer*. 2015 Feb;22(1):55-63.

104. Chang M, Kim N, Higashi T, Lee KY, Kim AR, Kitajiri S, Kim MY, Oh SH, Kim D, Furuse M, **Park WY**, Choi BY. Downsloping high-frequency hearing loss due to inner ear tricellular tight junction disruption by a novel ILDR1 mutation in the Ig-like domain. *PLoS ONE*. 2015 Feb 10;10(2):e0116931
105. Kim N, Park KT, Kim AR, Kim SY, Kim MY, Oh SH, Joung JG, **Park WY**, Choi BY. Whole Exome Sequencing Reveals Diverse Modes of Inheritance in Sporadic Mild to Moderate Sensorineural Hearing Loss. *Genet Med*. 2015 Feb 26. doi:10.1038