

KOREA-US Frontiers in Health and Life Sciences

2025. 11. 6^(Thu) - 7^(Fri)
Four Seasons Hotel, Grandballroom(3F)



Curriculum Vitae

Name	First Name	Woo Jin	Last Name	Park
Country	Korea			
Affiliation	Gwangju Institute of Science and Technology			

Educational Background

B.S., Zoology, Seoul National University, Korea, 3/80-2/84
M.S., Zoology, Seoul National University, Korea (Chin Ha Chung), 3/84-2/86
Ph.D., Biology, University of Virginia (Paul N. Adler), 9/87-2/93
Postdoc., Biology, University of Virginia (Paul N. Adler), 4/93-8/94
Postdoc., Pediatrics, Johns Hopkins Medicine (Ethlyn Wang Jabs), 9/94-4/95
Postdoc., MBG, Johns Hopkins Medicine (Philip A. Beachy), 5/95-7/96

Professional Career

Assistant Professor, GIST, 8/96-9/99
Associate Professor, GIST, 10/99-9/06
Director, National Research Laboratory on Proteolysis, 8/01-7/06
Visiting Scholar, Mass General Hospital (Roger J. Hajjar), 8/03-7/04
Professor, GIST, 10/06-present
Director, GIST-MSSM Global Research Laboratory, 7/06-3/15
Dean, School of Life Sciences, GIST, 9/09-8/11
Director, Biology Concentration, GIST College, 8/12-2/14
Visiting Scholar, Icahn School of Medicine at Mount Sinai (Roger J. Hajjar), 3/17-2/18

Research Field

Gene therapy for heart failure.
Heart physiology
Molecular Biology and protein engineering

Papers, Books, etc. presented or published by your name

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1. Byung Joon Hwang, **Woo-Jin Park**, Chin Ha Chung, Alfred L. Goldberg (1987). *Escherichia coli* contains a soluble ATP-dependent protease (Ti) distinct from protease La. *Proc. Natl. Acad. Sci. USA* 84:5550-5554.
2. Paul N. Adler, Charles Vinson, **Woo-Jin Park**, Sharon Conover, and Lisa Klein (1990). Molecular structure of *frizzled*, a *Drosophila* tissue polarity gene. *Genetics* 26:401-416.
3. Cheol Soon Lee, **Woo-Jin Park**, Eun Mi Jung, Kyung Hee Choi, Doo Bong Ha, Chin Ha Chung (1991). Induction of protease La under stress and its effect on intracellular proteolysis in *Escherichia coli*. *Biochem. Int.* 37:1155-1163.
4. **Woo-Jin Park**, Jingchun Liu and Paul N. Adler (1994). The *frizzled* gene of *Drosophila* encodes a membrane protein with an odd number of transmembrane domains. *Mech. Dev.* 45:127-137.
5. Paul N. Adler, Jeannette Charlton and **Woo-Jin Park** (1994). The *Drosophila* tissue polarity gene *inturned* functions prior to wing hair morphogenesis in the regulation of hair polarity and number. *Genetics* 137:829- 836.
6. **Woo-Jin Park**, Jingchun Liu and Paul N. Adler (1994). *frizzled* gene expression and development of tissue polarity in the *Drosophila* wing. *Dev. Genet.* 15:383-389.
7. **Woo-Jin Park** and Paul N. Adler (1994). Thin-layer chromatography assay for the incorporation of digoxigenin into nucleic acids. *BioTechniques* 17:656-657.
8. Xiang Li, **Woo-Jin Park**, Reed E. Pyeritz and Ethylin W. Jabs (1995). Effect on splicing of a silent *FGFR2* mutation in Crouzon syndrome. *Nature Genetics* 9:232-233.
9. **Woo-Jin Park**, Christiane Theda, Nancy Maestri, Gregory A. Meyers, Julie Fryburg, Craig Dufresnce, M. Michael Cohen, Jr. and Ethylin Wang Jabs (1995). Analysis of phenotypic features and *FGFR2* mutations in Apert syndrome. *Am. J. Hum. Genet.* 57:321-328.
10. **Woo-Jin Park**, Gregory A. Meyers, Xiang Li, Christiane Theda, Donald Day, Seth J. Orlow, Marilyn C. Jones and Et hylin Wang Jabs (1995). Novel *FGFR2* mutations in Crouzon and Jackson-Weiss syndromes show allelic heterogeneity and phenotypic variability. *Hum. Mol. Genet.* 4:1229-1233.
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12. **Woo-Jin Park**, Jingchun Liu, Edward J. Sharp and Paul N. Adler (1996). The *Drosophila* tissue poolarity gene *inturned* acts cell autonomously and encodes a novel protein. *Development* 122: 961-969.
13. Jefferey A. Porter, Stephen C. Ekker*, **Woo-Jin Park***, Doris P. von Kessler*, Keith E. Young*, Chien-Huan Chen, Y ong Ma, Amina S. Woods, Robert J. Cotter, Eugene V. Koonin and Philip A. Beachy (1996). Hedgehog Pattern Activity: Role of a lipophilic modification mediated by the carboxy-terminal autoprocessing domain. *Cell* 86: 21-34. (* co-authorship)
14. Edward J. Sharp, Natasha A. Abramova, **Woo Jin Park** and Paul N. Adler (1997). The conserved HR domain of the *Drosophila* *Suppressor 3 of zeste* (*Su(z)2*) and murine *bmi-1* proteins constitutes a locus-specific chromosome binding domain. *Chromosoma* 106: 70-80.
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19. Chien-Huan Chen, Doris P. von Kessler, **Woo Jin Park**, Baolin Wang, Yong Ma and Philip A. Beachy (1999). Nuclear trafficking of Cubitus interruptus in the regulation of hedgehog target gene expression. *Cell* 98: 305-316.
20. Ji Young Suk, Yeong Seon Kim, and **Woo Jin Park** (1999). HRC (histidine-rich calcium binding protein) resides in the lumen of sarcoplasmic reticulum as an oligomeric form. *Biochem. Biophys. Res. Commun.* 263:667-671.
21. Jae Hwan Goo, Ae Ran Park, **Woo Jin Park**, and Ohkmae K. Park (1999). Selection of *Arabidopsis* genes encoding secreted and membrane proteins. *Plant Mol. Biol.* 41:415-423.
22. Jeiwook Chae, Maeng-Jo Kim, Jae Hwan Goo, Simon Collier, David Gubb, Jeannette Charlton, Paul N. Adler, and **Woo Jin Park** (1999). The *Drosophila* tissue polarity gene *starry night* encodes a member of protocadherin family. *Development* 126:5421-5429.
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24. Jae Hwan Goo, Youngwook Ahn, Ohkmae K. Park, and **Woo Jin Park** (1999). Selection of *Drosophila* genes encoding secreted and membrane proteins. *Mol. Cells* 9:564-568.
25. Sung Yun Kim, Kye Won Park, Yong Jae Lee, Jae Hwan Goo, Sung Hoon Back, Ohkmae K. Park, Sung Key Jang, and **Woo Jin Park** (2000). In vivo determination of substrate specificity of hepatitis C virus NS3 protease: genetic assay for site-specific proteolysis. *Anal. Biochem.* 284:42-48.
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47. Dongtak Jeong, Hye Seon Cha, Eunyoung Kim, Misuk Kang, Dong Kwon Yang, Ji Myoung Kim, Oliver Y. Bernecker, Susumu Sakata, Le Thi Thu, Lei Cui, Young-Hoon Lee, Do Han Kim, Sun-Hee Woo, Rongliu

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Liao, Roger J. Hajjar, and **Woo Jin Park** (2006). PICOT inhibits cardiac hypertrophy and enhances ventricular function and Cardiomyocyte contractility. *Circulation.Research*. 99: 307-314.

48. Jae-Woong Chang, Hyunwoo Choi, Hyun-Ji Kim, Dong-Gyu Jo, Young-Jun Jeon, Jee-Yeon Noh, **Woo Jin Park**, and Yong-Keun Jung (2007). Neuronal vulnerability of CLN3 deletion to calcium-induced cytotoxicity is mediated by calsenilin. *Hum. Mol. Genet.* 16(3):317-326.

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51. Dong Kwon Yang, Bo Youn Choi, Young-Hoon Lee, Young-Gyu Kim, Myeong-Chan Cho, Do Han Kim, Roger J. Hajjar, **Woo Jin Park** (2007). Regression of pressureoverload-induced cardiac hypertrophy is associated with the expression of a distinct set of genes. *Physiol.Genomics*. 30(1):1-7.

52. Eui Seung Lee, Won Gil Lee, Soo-Hyeon Yun, Seong Hwan Rho, Isak Im, Sung Tae Yang, Saravanan Sellamuthu, Yong Jae Lee, Sun Jae Kwon, Ohkmae K. Park, Eun-Seok Jeon, **Woo Jin Park***, and Yong-Chul Kim* (2007). Development of potent inhibitors of the Cocksackievirus 3C protease. *Biochem. Biophys. Res. Commun.* 358(1):7-11 (*co-corresponding authors)

53. Michel Guipponi, Min-Yen Toh, Justin Tan, Daeho Park, Kelly Hanson, Ester Ballana, David Kwong, Ping Z.F. Cannon, Qingyu Wu, Alex Gout, Mauro Delorenzi, Terence P. Speed, Richard J.H. Smith, Henrik H. Dahl, Michael Petersen, Rohan D. Teasdale, Xavier Estivill, **Woo Jin Park**, Hamish S. Scott (2007). An integrated genetic and functional analysis of the role of type II transmembrane serine proteases in hearing loss. *Human Mutations* 16(3) 317-326

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58 Maengjo Kim, Jae Kyun Oh, susumu Sakata, Lifan Liang, **Woo Jin Park**, Roger J. Hajjar, and Djamel Lebeche (2008). Role of resistin in cardiac contractility and hypertrophy. *Journal of Molecular and Cellular Cardiology*. 45(2):270-280

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Hyo-Joon Kim, Chunghee Cho, Chang-Gyu Oh, **Woo Jin Park**, Yong-Keun Jung (2008). Protection of cardiomyocytes from ischemic/hypotoxic cell death via Drbp1 and pMe2GlyDH in cardio-specific ARC transgenic mice. *Journal of Biological Chemistry*. 283(45):30707-30714

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68. Changwon Kho, Ahyoung Lee, Dongtak Jeong, Jae Gyun Oh, Antoine H. Chanaanine, Eddy Kizana, **Woo Jin Park**, and Roger J. Hajjar (2011). SUMO1-dependent modulation of SERCA2a in heart failure. *Nature*. 477:601-606.

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contractility by inhibiting PKC zeta activity. *Journal of Molecular and Cellular Cardiology*. 53(1):53-63.

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80. Chang Sik Park, Shan Chen, Hoyong Lee, Hyeseon Cha, Jae Gyun Oh, Sunghee Hong, Peidong Han, Kenneth S. Ginsburg, Sora Jin, Inju Park, Vivek P. Singh, Hong-Sheng Wang, Clara Franzini-Armstrong, **Woo Jin Park**, Donald M. Bers, Evangelia G. Kranias, Chunghee Cho, and Do Han Kim (2013) Targeted ablation of the histidine-rich Ca²⁺-binding protein (HRC) gene is associated with abnormal SR Ca²⁺-cycling and severe pathology under pressure-overload stress. *Basic Research in Cardiology*. 108:344.

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