

Curriculum Vitae

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Education

- 2002.3~2007.8 Ph.D. in Analytical Chemistry, Department of Chemistry, Seoul National University, Korea
• Dissertation: *Novel approaches for improved MALDI-TOF mass spectrometric peptide analysis. (Supervisor: Hie-Joon Kim)*
- 2000.3~2002.2 M.S. in Analytical Chemistry, Department of Chemistry, Seoul National University, Korea
• Thesis: *MALDI-TOF mass spectrometric protein identification using a peptide triplet induced by thermal cleavage of cystine. (Supervisor: Hie-Joon Kim)*
- 1996.3~2000.2 B.S. in Chemistry (*Cum Laude*), Department of Chemistry, Seoul National University, Korea

Professional experiences

- 2020.9 ~ present **Assistant professor**
School of Biological Sciences
College of Natural Sciences, Seoul National University, Korea
- 2013.3 ~ 2020.8 **Team leader** for proteomics research
Center for RNA Research (*V. Narry Kim*), Institute for Basic Science (IBS)
Seoul National University, Korea
- 2008.10 ~ 2013.2 **Postdoc**, Biological Separation & Mass Spectrometry, Biological Science Division
Pacific Northwest National Laboratory (PNNL), United States
(*Supervisor: Richard D Smith and Wei-Jun Qian*)
- 2007.9 ~ 2008.9 **Postdoc**, Protein Chemistry and Mass Spectrometry Laboratory
Department of Chemistry, Seoul National University, Korea
(*Supervisor: Hie-Joon Kim*)

Publications

(**Primary authorship**; † co-first author, * corresponding author)

1. Isaac Park[†], Kwang-eun Kim[†], Jeesoo Kim[†], Subin Bae, Minkyoo Jung, Jinhyuk Choi, Chulhwan Kwak, Myeong-Gyun Kang, Chang-Mo Yoo, Ji Young Mun, Kwang-Hyeon Liu, **Jong-Seo Kim***, JaeMyoung Suh*, and Hyun-Woo Rhee* "In vivo mitochondrial matrix proteome profiling reveals RTN4IP1/OPA10 as an antioxidant NADPH oxidoreductase" *Nat. Chem. Biol.*, 2023, *accepted*.
2. Yun-Bin Lee, Minkyoo Jung, Jeesoo Kim, Afandi Charels, Wanda Christ, Myeong-Gyun Kang, Chulhwan Kwak, Jonas Klingström, Anna Smed Sörenson, **Jong-Seo Kim***, Ji-Young Mun*, and Hyun-Woo Rhee* "Super-resolution proximity labeling reveals antiviral protein network and its structural changes against SARS-CoV-2 viral proteins" *Cell Reports*, 2023, 42(8), 112835.

3. Jong Woo Bae, Sangtae Kim, V. Narry Kim*, and **Jong-Seo Kim*** “Photoactivatable ribonucleosides Thi Thanh My Nguyen[†], Choijamts Munkhzul[†], Jeessoo Kim, Yeonju Kyoung, Michele Vianney, Sanghee Shin, Seonmin Ju, Pham Bui Hoang Anh, Junhyung Kim, **Jong-Seo Kim***, and Mihye Lee* “In vivo proximity labeling identifies the proximal proteome of the endoribonuclease Zucchini in *Drosophila* ovary” *Development*, 2023, 150(4), dev201220.
4. Jong Woo Bae, Sangtae Kim, V. Narry Kim*, and **Jong-Seo Kim*** “Photoactivatable ribonucleosides mark base-specific RNA-binding sites” *Nat. Commun.*, 2021, 12, Article number: 6026.
5. Kwang-eun Kim[†], Isaac Park[†], Jeessoo Kim, Myeong-Gyun Kang, Won Gun Choi, Hyemi Shin, **Jong-Seo Kim***, Hyun-Woo Rhee* and Jae Myoung Suh* “Dynamic tracking and identification of tissue-specific secretory proteins in the circulation of live mice” *Nat. Commun.*, 2021, 12, Article number: 5204.
6. Chuna Kim[†], Sanghyun Sung[†], **Jong-Seo Kim***, Hyunji Lee, Yoonseok Jung, Sanghee Shin, Jenny J. Seo, Jun Kim, Daeun Kim, Hiroyuki Niida, V. Narry Kim, Daechan Park* and Junho Lee* “Telomeres reformed with non-telomeric sequences in mouse embryonic stem cells” *Nat. Commun.*, 2021, 12, Article number: 1097.
7. Yongwoo Na, Hyunjoon Kim, Yeon Choi, Sanghee Shin, Jae Hun Jung, S. Chul Kwon, V. Narry Kim*, and **Jong-Seo Kim*** “FAX-RIC enables robust RNA interactome profiling in multicellular organisms in vivo” *Nucleic Acids Res.*, 2021, 49(5), e28.
8. Jihyun Lee[†], Jae Hun Jung[†], Jeessoo Kim, Won-Ki Baek, Jinseol Rhee, Tae-Hwan Kim, Sang-Hyon Kim, Kwang Pyo Kim*, Chang-Nam Son*, and **Jong-Seo Kim*** “Proteomic analysis of human synovial fluid reveals potential diagnostic biomarkers for ankylosing spondylitis” *Clinical Proteomics*, 2020, 17, 20.
9. Jong Woo Bae, Sung-Chul Kwon, Yongwoo Na, V. Narry Kim* and **Jong-Seo Kim*** “Chemical RNA digestion enables robust RNA-binding site mapping at single amino acid-resolution” *Nat. Struct. Mol. Biol.*, 2020, 27(7), 678–682.
10. Chulhwan Kwak[†], Sanghee Shin[†], Jong-Seok Park[†], Minkyong Jung, Truong Thi My Nhung, Myeong-Gyun Kang, Sang Ki Park*, Ji Young Mun*, **Jong-Seo Kim***, and Hyun-Woo Rhee* “Contact-ID, a tool for profiling organelle contact site, reveals regulatory proteins of mitochondrial-associated membrane formation” *Proc. Natl. Acad. Sci. USA*, 2020, 117(22), 12109-12120.
11. Sanghee Shin, Ji Hye Hong, Yongwoo Na, Mihye Lee, Wei-Jun Qian, V. Narry Kim, and **Jong-Seo Kim*** “Development of Multiplexed Immuno-N-Terminomics to Reveal the Landscape of Proteolytic Processing in Early Embryogenesis of *Drosophila melanogaster*” *Anal. Chem.*, 2020, 92(7), 4926-4934.
12. Yeon Choi[†], Kyowon Jeong[†], Sanghee Shin[†], Joon Won Lee[†], Young-suk Lee, Sangtae Kim, Sun Ah Kim, Jaehun Jung, Kwang Pyo Kim, V. Narry Kim* and **Jong-Seo Kim*** “MS1-level proteome quantification platform allowing maximally increased multiplexity for SILAC and in vitro chemical labeling” *Anal. Chem.*, 2020, 92(7), 4980-4989.
13. Eunkyong Ko[†], **Jong-Seo Kim***, Jeessoo Kim, Sung-Gyoo Park, and Guhung Jung* “SERPINA3 is a key modulator of HNRNP-K transcriptional activity against oxidative stress in HCC” *Redox Biology*, 2019, Jun;24:101217.
14. Jaehun Jung, Kyowon Jeong, Yeon Choi, Sun Ah Kim, Hyunjoon Kim, Joon Won Lee, V. Narry Kim, Kwang Pyo Kim, and **Jong-Seo Kim*** “Deuterium-Free, Three-Plexed Peptide Diethylation for Highly Accurate Quantitative Proteomics” *J. Proteome Res.*, 2019, 18(3), 1078-87.
15. Song-Yi Lee, Myeong-Gyun Kang, Sanghee Shin, Chulhwan Kwak, Seung Won Lee, Taejoon Kwon, Jeong Kon Seo*, **Jong-Seo Kim***, and Hyun-Woo Rhee* “Architecture Mapping of the Inner Mitochondrial Membrane Proteome by Chemical Tools in Live Cells” *J. Am. Chem. Soc.*, 2017, 139, 3651–62.

Prior to joining School of Biological Sciences in SNU

16. **Jong-Seo Kim**, Ziyu Dai, Uma K. Aryal, Ronald J. Moore, David G. Camp, Scott E. Baker, Richard D. Smith, and Wei-Jun Qian*
“Resin-assisted enrichment of N-terminal peptides for characterizing proteolytic processing”
Anal. Chem., 2013, 85, 6826–32.
17. **Jong-Seo Kim**, Matthew E. Monroe, David G. Camp II, Richard D. Smith, and Wei-Jun Qian*
“In-source fragmentation and the sources of partially tryptic peptides in shotgun proteomics”
J. Proteome Res., 2013 12, 910-6.
18. **Jong-Seo Kim***, Jin-Su Song, Yongju Kim, Seung Bum Park, and Hie-Joon Kim*
“N-terminal de novo analysis of protein N-terminal sequence using MALDI signal enhancing derivatization with Br signature” *Anal. Bioanal. Chem.* 2012, 402, 1911-9.
19. **Jong-Seo Kim**, Thomas L. Fillmore, Liu Tao, Errol Robinson, Mahmud Hossain, Boyd L. Champion, Ronald J. Moore, David G. Camp II, Richard D. Smith, and Wei-Jun Qian*
“¹⁸O-labeled proteome reference as global internal standards for targeted quantification using selected reaction monitoring-mass spectrometry” *Mol. Cell. Proteomics*, 2011, 10 (12), M110.007302.
20. **Jong-Seo Kim***, Mansup Shin, Jin-Su Song, Songhie An, and Hie-Joon Kim*
“C-terminal de novo sequencing of peptides using oxazolone-based derivatization with bromine signature” *Anal. Biochem.* 2011, 419, 211-6.
21. **Jong-Seo Kim***, Si-Uk Song, and Hie-Joon Kim*
“Simultaneous identification of tyrosine phosphorylation and sulfation sites utilizing tyrosine-specific bromination” *J. Am. Soc. Mass Spectrom.* 2011, 22, 1916-25.
22. **Jong-Seo Kim**, Jisoo Kim, Jung Min Oh, and Hie-Joon Kim*
“Tandem mass spectrometric method for definitive localization of phosphorylation sites using bromine signature” *Anal. Biochem.* 2011, 414, 294-6.
23. **Jong-Seo Kim**, Enshi Cui and Hie-Joon Kim*
“Picolinamidation of phosphopeptides for MALDI-TOF-TOF mass spectrometric sequencing with enhanced sensitivity” *J. Am. Soc. Mass Spectrom.* 2009, 20, 1751-8.
24. **Jong-Seo Kim**, Ji-Hyun Kim and Hie-Joon Kim*
“Matrix-assisted laser desorption/ionization signal enhancement of peptides by picolinamidation of amino groups” *Rapid Commun. Mass Spectrom.* 2008, 22, 495-502.
25. **Jong-Seo Kim**, Ji-Young Kim and Hie-Joon Kim*
“Suppression of matrix clusters and enhancement of peptide signals in MALDI-TOF mass spectrometry using nitrilotriacetic acid” *Anal. Chem.* 2005, 77, 7483-8.
26. **Jong-Seo Kim** and Hie-Joon Kim*
“Matrix-assisted laser desorption/ionization time-of-flight mass spectrometric observation of a peptide triplet induced by thermal cleavage of cystine”
Rapid Commun. Mass Spectrom. 2001, 15, 2296-300.

(Co-authorship)

27. Sun-Il Yun, Chulhwan Kwak, Song-Yi Lee, Sanghee Shin, Changsuk Oh, **Jong-Seo Kim**, Hyun-Woo Rhee*, Kyeong Kyu Kim* “Binding of USP4 to cortactin enhances cell migration in HCT116 human colon cancer cells” *The FASEB Journal*, 2023, 37, e22900.
28. Sungwon Lee, Hyewon Kim, Ari Hong, Jaewon Song, Sungyul Lee, Myeonghwan Kim, Sung-yeon Hwang, Dongjoon Jeong, Jeesoo Kim, Ahyeon Son, Young-suk Lee, V. Narry Kim, **Jong-Seo Kim**, Hyesik Chang* and Kwangseog Ahn* “Functional and molecular dissection of HCMV long non-coding RNAs” *Scientific Reports*, 2022, 12, Article number: 19303.
29. Ye Young Kim, Hagoon Jang, Gung Lee, Yong Geun Jeon, Jee Hyung Sohn, Ji Seul Han, Won Taek Lee, Jeu Park, Jin Young Huh, Hahn Nahmgoong, Sang Mun Han, Jeesoo Kim, Minwoo Pak, Sun Kim, **Jong-Seo Kim**, and Jae Bum Kim* “Hepatic GSK3 β -Dependent CRY1 Degradation Contributes to Diabetic

- Hyperglycemia” *Diabetes*, 2022, 71(7), 1373–1387.
30. Chewon Yim, Yeonji Chung, Jeesoo Kim, IngMarie Nilsson, **Jong-Seo Kim**, and Hyun Kim* “Spcl regulates the signal peptidase-mediated processing of membrane proteins” *J. Cell Sci.*, 2021, 134(13), jcs258936.
 31. Sungyul Lee, Young-suk Lee, Yeon Choi, Ahyeon Son, Youngran Park, Kyung Min Lee, Jeesoo Kim, **Jong-Seo Kim**, V Narry Kim* “The SARS-CoV-2 RNA interactome” *Molecular Cell*, 2021, 81(13), 2838-2850.
 32. Yeonghyeon Lee, Jaejin Kim, Mi-Sung Kim, Yoojin Kwon, Sanghee Shin, Hyerim Yi, Hyeonkyeong Kim, Moon Jong Chang, Chong Bum Chang, Seung-Baik Kang, V. Narry Kim, Jin-Hong Kim, **Jong-Seo Kim**, Stephen Elledge, and Chanhee Kang* “Coordinate regulation of the senescent state by selective autophagy” *Developmental Cell*, 2021, 56, 1-14.
 33. S Chul Kwon, Harim Jang, Siyuan Shen, S Chan Baek, Kijun Kim, Jihye Yang, Jeesoo Kim, **Jong-Seo Kim**, Suman Wang, Yunyu Shi, Fudong Li*, V Narry Kim* “ERH facilitates microRNA maturation through the interaction with the N-terminus of DGCR8” *Nucleic Acids Research*, 2020, 48(19), 11097–11112.
 34. Jinuk Kim, Wonhee Han, Taeyong Park, Eun Jin Kim, Injin Bang, Hyun Sik Lee, Yejing Jeong, Kyeonghwan Roh, Jeesoo Kim, **Jong-Seo Kim**, Chanhee Kang, Chaok Seok, Jin-Kwan Han, Hee-Jung Choi* “Sclerostin inhibits Wnt signaling through tandem interaction with two LRP6 ectodomains” *Nat. Commun.*, 2020, 11, 5357.
 35. Chang Rok Kim, Taichi Noda, Hyunkyung Kim, Gibeom Kim, Seongwan Park, Yongwoo Na, Seiya Oura, Keisuke Shimada, Injin Bang, Se Kyu Oh, Yong Ryoul Kim, Hee-Jung Choi, **Jong-Seo Kim**, Inkyung Jung, Ho Lee, Yuki Okada, Masahito Ikawa*, and Sung Hee Baek* “PHF7 Modulates BRDT stability and Histone-to-Protamine Exchange during Spermiogenesis” *Cell Reports*, 2020, 32(4), 107950.
 36. Jihyeon Yu, Eunju Cho, Yeon-Gil Choi, You Kyeong Jeong, Yongwoo Na, **Jong-Seo Kim**, Sung-Rae Cho*, Jae-Sung Woo*, and Sangsu Bae* “Purification of an intact human protein overexpressed from its endogenous locus via direct genome engineering” *ACS Synth. Biol.*, 2020, 9(7), 1591-1598.
 37. Ju-Hyung Lee, Ji-Sun Yoo, Yeonbum Kim, **Jong-Seo Kim**, Eun-Jin Lee, and Jung-Hye Roe* “The WblC/WhiB7 transcription factor controls intrinsic resistance to translation-targeting antibiotics by altering ribosome composition” *mBio*, 2020, 11(2), e00625-20.
 38. Dongwan Kim, Young-suk Lee, Soo-Jin Jung, Jinah Yeo, Jenny Seo, Young-yoon Lee, Jaechul Lim, Hyesik Chang, Jaewon Song, Jihye Yang, **Jong-Seo Kim**, Guhung Jung, Kwangseok Ahn and V. Narry Kim* “Viral hijacking of the TENT4-ZCCHC14 complex protects viral RNAs via mixed tailing” *Nat. Struct. Mol. Biol.*, 2020, 27(6), 581–588.
 39. Ji-Eun Kim, Joon-Sun Choi, **Jong-Seo Kim**, You-Hee Cho, and Jung-Hye Roe* “Lysine acetylation of the housekeeping sigma factor enhances the activity of the RNA polymerase holoenzyme” *Nucleic Acids Res.*, 2020, 48(5), 2401–2411.
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 42. Zee-Won Lee, Byoung Sik Kim, Kyung Ku Jang, Ye-Ji Bang, Suhyeon Kim, Nam-Chul Ha, Young Hyun Jung, Hyun Jik Lee, Ho Jae Han, **Jong-Seo Kim**, Jeesoo Kim, Pramod K. Sahu, Lak Shin Jeong, Myung Hee Kim, Sang Ho Choi* “Small-molecule inhibitor of HlyU attenuates virulence of *Vibrio* species” *Scientific Reports*, 2019, 9, 4346.
 43. Ki Eun Pyo, Chang Rok Kim, Minkyung Lee, **Jong-Seo Kim**, Keun Il Kim, and Sung Hee Baek* “ULK1 O-GlcNAcylation Is Crucial for Activating VPS34 via ATG14L during Autophagy Initiation” *Cell*

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 46. Eunkyong Ko, **Jong-Seo Kim**, Soomi Ju, Hyun-Wook Seo, Yeonji Chang, Jung-Ah Kang, Sung-Gyoo Park*, and Guhung Jung* "Oxidatively Modified Protein-Disulfide Isomerase-Associated 3 Promotes Dyskerin Pseudouridine Synthase 1-Mediated Malignancy and Survival of Hepatocellular Carcinoma Cells" *Hepatology*, 2018, 68(5), 1851-64.
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58. Won Kim, Seung Oe Lim, **Jong-Seo Kim**, Young Hee Ryu, Ji-Yeon Byeon, Hie-Joon Kim, Yong-II Kim, Jin Seouk Heo, Young Min Park and Guhung Jung* "Comparison of proteome between hepatitis B virus- and hepatitis C virus-associated hepatocellular carcinoma" *Clin. Cancer Res.* 2003, 9, 5493-500.