Jong-Seo Kim, Ph.D.

Position: Assistant professor
Department: School of Biological Sciences
Affiliation: College of Natural Sciences, Seoul National University
Office: Bd504 Rm524 1 Gwanak-ro Gwanak-gu Seoul 08826
E-mail: jongseokim@snu.ac.kr
Homepage: https://biosci.snu.ac.kr/proteomics/

Educational Experience

2002.3~2007.8 Ph.D. in Analytical Chemistry, Department of Chemistry, Seoul National University
2000.3~2002.2 M.S. in Analytical Chemistry, Department of Chemistry, Seoul National University
1996.3~2000.2 B.S. in Chemistry, Department of Chemistry, Seoul National University

Professional Experience

2020.9 ~ present	**Assistant professor** School of Biological Sciences, Seoul National University, Korea
2013.3 ~ 2020.8	**Principle investigator** for proteomics research Center for RNA Research, Institute for Basic Science, Korea
2008.10 ~ 2013.2	**Postdoc**, Biological Separation & Mass Spectrometry Pacific Northwest National Laboratory (PNNL), United States

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

1. 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.
2. Kwang-eun Kim†, Isaac Park†, Jeesoo 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.
3. 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 reforged with non-telomeric sequences in mouse embryonic stem cells" ***Nat. Commun.***, 2021, 12, Article number: 1097.
4. 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.
5. Jihyun Lee†, Jae Hun Jung†, Jeesoo 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.

6. 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.
7. Chulhwan Kwak†, Sanghee Shin†, Jong-Seok Park†, Minkyo 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.
8. 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.
9. 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.
10. Eunkyong Ko†, **Jong-Seo Kim**†, Jeesoo 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.
11. 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.
12. 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.