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Position: Associate Professor

Department: New Biology

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Homepage: <https://sites.google.com/view/bio-mass-spec/home>**Education**

1995.03-2002.02	B. Sc.	Department of Chemistry, Korea University
2002.03-2004.02	M. Sc.	Department of Chemistry, Korea University
2007.08-2013.05	Ph. D.	Department of Biological Chemistry, Johns Hopkins University School of Medicine

**Professional Experience**

2013.06 -2016.03	Post-doctoral fellow	Institute of Genetic Medicine, Johns Hopkins University School of Medicine
2016.04-2018.09	Assistant Professor	Department of Applied Chemistry, Kyung Hee University
2018.10-present	Assistant, Associate Professor	Department of New Biology, DGIST

**Academic Society**

2016- present	Member	KHUPO
2016- present	Member	KCS
2016- present	Member	KSMS

**Publications**

- Lee, J. H., Jang, W., Park, J. H., Mohammad, H. B., Lee, J.-Y., Jeong, W.-H., **Kim, M.-S.\*** (2021) Identification of Organophosphate Modifications by High-resolution Mass Spectrometry. *Bulletin of the Korean Chemical Society*. Accepted.
- Cha, S.-J., **Kim, M.-S.**, Na, C. H., Jacobs-Lorena, M. (2021) Plasmodium sporozoite phospholipid scramblase interacts with mammalian carbamoyl-phosphate synthetase 1 to infect hepatocytes. *Nature Communications*. 12, Article number: 6773.
- Na, A. Y., Paudel, S., Choi, S. Y., **Lee, J. H., Kim, M.-S.**, Bae, J.-S., Lee, S. (2021) Global Lysine Acetylation Analysis of LPS-Stimulated HepG2 Cells Identifies Hyperacetylation of PKM2 as a Metabolic Regulator in Sepsis. *International Journal of Molecular Sciences*. 22(16), 8529.
- Park, J.-H., Ryu, S. J., Kim, B. J., Cho, H.-J. , Park, C. H., Choi, H. J. C., Jang, E.-J., Yang, E. J., Hwang, J.-A., Woo, S.-H., **Lee, J. H., Park, J. H.**, Choi, K. M., Kwon, Y.-Y., Lee, C. K., Park, J. T. , Cho, S. C., Lee, Y. I., Lee, S. B., Han, J. A., Cho, K. A., **Kim, M.-S.\***, Hwang, D.\*, Lee, Y.-S.\*, and Park, S. C.\* (2021) Disruption of nucleocytoplasmic trafficking as a cellular senescence driver. *Experimental & Molecular Medicine*. 53, 1092–1108.
- Kim, S., **Jang, E. W., Park, J., Kim, M.-S.\***, Kim, J.-G.\* and Kang, L.-W.\* (2021) Combined analysis of the time-resolved transcriptome and proteome of plant pathogen *Xanthomonas oryzae* pv. *oryzae*. *Frontiers in Microbiology*. 12, 664857.
- Huh, S.**, Hwang, D., **Kim, M.-S.\*** (2020) Statistical modeling for enhancing discovery power of citrullination from tandem mass spectrometry data. *Analytical Chemistry*. Accepted.
- Ntwali P.V M, Heo CE, Han JU, Chae SY, Kim M, **Vu, H. M., Kim, M.-S.\*** and Kim, H.\* (2020) Mass spectrometry-based proteomics of single cells and organoids: The new generation of cancer research. *Trends in Analytical Chemistry*. Accepted.