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**Education**

1995. 03 - 1999. 08	BS Life Science	Yonsei University
1999. 09 - 2002. 02	MS Biology	Yonsei University Graduate School
2007. 03 - 2012. 08	Ph. D Genetic Engineering	Kyoung Hee University

**Professional Experience**

2012.10 - 2017.09	Post-Doc.	Korea Basic Science Institute
2017.10 - 2018.08	Research Professor	Chungnam National University
2018.09 - 2018.09	Post-Doc.	Korea Basic Science Institute
2018.10 - present	Senior Research Fellow	Korea Basic Science Institute

**Academic Societies**

2019.03 - 2023.02.	Educational Board Member	Korea Society for Glycoscience
2022.01 - 2023.12.	Educational Board Member	Korea Human Proteome Organisation

**Publications**

- Oh M, Ha DI, Son C, Kang JG, **Hwang H**, Moon SB, Kim M, Nam J, Kim JS, Song SY, Kim YS, Park S, Yoo JS, Ko JH, Park K, Defect in cytosolic Neu2 sialidase abrogates lipid metabolism and impairs muscle function in vivo. *Scientific Reports* **2022** 12:3216
- Park JG, Choi BK, Lee Y, Jang EJ, Woo SM, Lee JH, Kim KH, **Hwang H**, Choi W, Lee SH, Yoo BC, Plasma Complement C7 as a Target in Non-small Cell Lung Cancer Patients to Implement 3P Medicine Strategies. *EPMA Journal* **2021** 12:629-645.
- Yang Y\*, **Hwang H\***, Im JE, Lee K, Bhoo SH, Yoo JS, Kim YH, Kim JY, Flashlight into the Function of Unannotated C11orf52 Using Affinity Purification Mass Spectrometry. *Journal of Proteome Research* **2021** 20:5340-5346.
- Lee JY, Choi JW, Bae S, **Hwang H**, Yoo JS, Lee JE, Kim E, Jeon YH, Kim JY, Characterization of the N-glycosylation of Recombinant IL-4 and IL-13 Proteins Using LC-MS/MS Analysis and the I-GPA Platform. *Mass Spectrometry Letters* **2021** 12(3):66-75.
- Hwang H**, Kim JY, Yoo JS, Chromosome-Centric Human Proteome Study of Chromosome 11 Team. *Mass Spectrometry Letters* **2021** 12(3):60-65.
- Lee J, Kim S, Chung HY, Kang A, Kim S, **Hwang H**, Yang SI, Yun WS, Electrochemical microgap immunosensors for selective detection of pathogenic *Aspergillus niger*. *Journal of Hazardous Materials* **2021** 411:125069.
- Hwang H\***, Im JE\*, Yang YJ, Kim HJ, Kwon KH, Kim Y-H, Kim JY, Yoo JS, Bioinformatic Prediction of Gene Ontology Terms of Uncharacterized Proteins from Chromosome 11. *Journal of Proteome Research* **2020** 19:4907-4912.
- Lee J, Ha S, Kim M, Kim S-W, Yun J, Ozcan S, **Hwang H**, Ji IJ, Yin D, Webster MJ, Weickert CS, Kim J-H, Yoo JS, Grimm R, Bahn S, Shin H-S, An HJ, Spatial and Temporal Diversity of

- Glycome Expression in Mammalian Brain, *Proceedings of the National Academy of Sciences of the USA* **2020** 117(46):28743-28753.
- Jeong HK\*, **Hwang H\***, Kang YM, Lee HK, Park GW, Lee JY, Kim DG, Lee JW, Lee SY, An HJ, Kim JY, Yoo JS, Computational Classification of Core and Outer Fucosylation of N-Glycoproteins in Human Plasma Using Collision-Induced Dissociation in Mass Spectrometry, *Rapid Communications in Mass Spectrometry* **2020** 34:e8917.
- Hwang H\***, Jeong HK\*, Lee HK, Park GW, Lee JY, Lee SY, Kang YM, An HJ, Kang JG, Ko JH, Kim JY, Yoo JS, Machine Learning Classifies Core and Outer Fucosylation of N-Glycoproteins Using Mass Spectrometry. *Scientific Reports* **2020** 10:318.
- Lee J\*, **Hwang H\***, Kim S, Hwang J, Yoon J, Yin D, Choi SI, Kim YH, Kim YS, An HJ, Comprehensive Profiling of Surface Gangliosides Extracted from Various Cell Lines by LC-MS/MS. *Cells* **2019** 8(11):1323.
- Lee SY\*, **Hwang H\***, Kang YM, Kim H, Kim DG, Jeong JE, Kim JY, Yoo JS, SAAVpedia: Identification, Functional Annotation, and Retrieval of Single Amino Acid Variants for Proteogenomic Interpretation. *Journal of Proteome Research*. **2019** 18(12):4133-4142.
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- Kim U, Oh MJ, Lee J, **Hwang H**, An HJ. MS-Based Technologies for the Study of Site-Specific Glycosylation. *Mass Spectrometry Letters*. **2017** 8:69-78.
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