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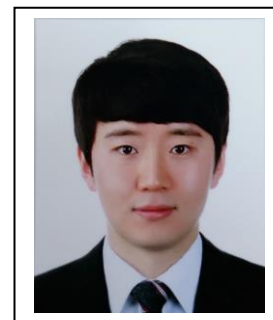
Position: Associate Professor

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2003.09-2011.02	Doctor (Ph.D)	Genetic Engineering, Seoul National University
1999.03-2003.02	Bachelor	Department of biological sciences, Sungkyunkwan University

Professional Experience

2021.09-present	Associate Professor	Transdisciplinary Department of Medicine & Advanced Technology, SNUH
2015.12-2021.08	Research Professor	Proteomic core facility, Transdisciplinary Research and Collaboration, Biomedical research institute, SNUH
2014.03-2015.11	Research Professor	Biomedical research institute, SNUH
2013.03-2014.02	Postdoctoral fellow	Institute of Medical & Biological Engineering, Medical Research Center, Seoul National University College of Medicine
2011.03-2013.02	Postdoctoral fellow	Department of biomedical sciences, College of medicine, Seoul National University

Academic Society

2015.01- present	Regular member	KHUPO
2022.01- present	Planning committee	KHUPO

Publications

- Kang SY, Lee EJ, Byun JW, **Han D**, Choi Y, Hwang DW, Lee DS. Extracellular Vesicles Induce an Aggressive Phenotype in Luminal Breast Cancer Cells Via PKM2 Phosphorylation. *Front Oncol.* 2021 Dec 13;11:785450. doi: 10.3389/fonc.2021.785450. PMID: 34966685 (co-author)
- Heo AJ, Kim SB, Ji CH, **Han D**, Lee SJ, Lee SH, Lee MJ, Lee JS, Ciechanover A, Kim BY, Kwon YT. The N-terminal cysteine is a dual sensor of oxygen and oxidative stress. *Proc Natl Acad Sci U S A.* 2021 Dec 14;118(50):e2107993118. doi: 10.1073/pnas.2107993118. PMID: 34893540 (co-author).
- Kim JH, Kim H, Dan K, Kim SI, Park SH, **Han D**, Kim YH. In-depth proteomic profiling captures subtype-specific features of craniopharyngiomas. *Sci Rep.* 2021 Oct 27;11(1):21206. doi: 10.1038/s41598-021-00483-4. PMID: 34707096 (corresponding author).
- Jang HN, Moon SJ, Jung KC, Kim SW, Kim H, **Han D**, Kim JH. Mass Spectrometry-Based Proteomic Discovery of Prognostic Biomarkers in Adrenal Cortical Carcinoma. *Cancers (Basel).* 2021 Aug 2;13(15):3890. doi: 10.3390/cancers13153890. PMID: 34359790 (corresponding author)
- Lee H, Rhee SJ, Kim J, Lee Y, Kim H, Lee J, Lee K, Shin H, Kim H, Lee TY, Kim M, Kim EY, Kim SH, Ahn YM, Kwon JS, **Han D**, Ha K. Predictive protein markers for depression severity in mood disorders: A preliminary trans-diagnostic approach study. *J Psychiatr Res.* 2021 Oct;142:63-72. doi: 10.1016/j.jpsychires.2021.07.041. Epub 2021 Jul 24. PMID: 34325234. (corresponding author)
- Kim JH, Lee J, Choi WH, Park S, Park SH, Lee JH, Lim SM, Mun JY, Cho HS, **Han D**, Suh YH, Lee MJ. CHIP-mediated hyperubiquitylation of tau promotes its self-assembly into the insoluble tau filaments. *Chem Sci.* 2021 Mar 17;12(15):5599-5610. doi: 10.1039/d1sc00586c. PMID: 34168795 (co-author)
- Kim H, Woo J, Dan K, Lee KM, Jin MS, Park IA, Ryu HS, **Han D**. Quantitative Proteomics Reveals Knockdown of CD44 Promotes Proliferation and Migration in Claudin-Low MDA-MB-231 and Hs 578T Breast Cancer Cell Lines. *J Proteome Res.* 2021 Jul 2;20(7):3720-3733. doi: 10.1021/acs.jproteome.1c00293. Epub 2021 Jun 2. PMID: 34075748. (corresponding Author)
- Lee JS, **Han D**, Kim SY, Hong KH, Jang MJ, Kim MJ, Kim YG, Park JH, Cho SI, Park WB, Lee KB, Shin HS, Oh HS, Kim TS, Park SS, Seong MW. Longitudinal proteomic profiling provides insights into host response and proteome dynamics in COVID-19 progression. *Proteomics.* 2021 Jun;21(11-12):e2000278. doi: 10.1002/pmic.202000278. Epub 2021 May 14. PMID: 33945677 (first author)
- Yoon HS, Cho CH, Yun MS, Jang SJ, You HJ, Kim JH, **Han D**, Cha KH, Moon SH, Lee K, Kim YJ, Lee SJ, Nam TW, Ko G. Akkermansia muciniphila secretes a glucagon-like peptide-1-inducing protein that improves glucose homeostasis and ameliorates metabolic disease in mice. *Nat Microbiol.* 2021 May;6(5):563-573. doi: 10.1038/s41564-021-00880-5. Epub 2021 Apr 5. PMID: 33820962 (Co-author).
- Son M, Kim H, **Han D**, Kim Y, Huh I, Han Y, Hong SM, Kwon W, Kim H, Jang JY, Kim Y. A Clinically Applicable 24-Protein Model for Classifying Risk Subgroups in Pancreatic Ductal Adenocarcinomas using Multiple Reaction Monitoring-Mass Spectrometry. *Clin Cancer Res.* 2021 Feb 16;clinres.3513.2020. doi: 10.1158/1078-0432.CCR-20-3513. Epub ahead of print. PMID: 33593883.(first author)
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- Han D**. In-depth proteome of perilymph in guinea pig model. *Proteomics.* 2021 Jan 18:e2000138. doi: 10.1002/pmic.202000138. Epub ahead of print. PMID: 33459488. (corresponding author)
- Kim JE, **Han D**, Jeong JS, Moon JJ, Moon HK, Lee S, Kim YC, Yoo KD, Lee JW, Kim DK, Kwon YJ, Kim YS, Yang SH. Multi-sample mass spectrometry-based approach for discovering injury markers in chronic kidney disease. *Mol Cell Proteomics.* 2021 Jan 13:100037. doi:10.1074/mcp.RA120.002159. Epub ahead of print. PMID: 33453410. (first author)
- Lee ST, Lee BJ, Bae JY, Kim YS, **Han DH**, Shin HS, Kim S, Park DK, Seo SW, Chu K, Lee SK, Ho

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- Lee KM, Lee H, **Han D**, Moon WK, Kim K, Oh HJ, Choi J, Hwang EH, Kang SE, Im SA, Lee KH, Ryu HS. Combined the SMAC mimetic and BCL2 inhibitor sensitizes neoadjuvant chemotherapy by targeting necrosome complexes in tyrosine aminoacyl-tRNA synthase-positive breast cancer. *Breast Cancer Res*. 2020 Nov 25;22(1):130. doi: 10.1186/s13058-020-01367-7. PMID: 33239070; PMCID: PMC7687715. (first author)
- Shin JW, Lee JH, Kim H, Lee DH, Baek KH, Sunwoo JS, Byun JI, Kim TJ, Jun JS, **Han D**, Jung KY. Bioinformatic analysis of proteomic data for iron, inflammation, and hypoxic pathways in restless legs syndrome. *Sleep Med*. 2020 Nov;75:448-455. doi: 10.1016/j.sleep.2020.09.002. Epub 2020 Sep 13. PMID: 32992101. (corresponding author)
- Choi WH, Yun Y, Park S, Jeon JH, Lee J, Lee JH, Yang SA, Kim NK, Jung CH, Kwon YT, **Han D**, Lim SM, Lee MJ. Aggresomal sequestration and STUB1-mediated ubiquitylation during mammalian proteophagy of inhibited proteasomes. *Proc Natl Acad Sci U S A*. 2020 Aug 11;117(32):19190-19200. doi: 10.1073/pnas.1920327117. Epub 2020 Jul 28. PMID: 32723828; PMCID: PMC7430983. (co-author)
- Jeon HS, Lee SM, Jung YM, Oh S, Park JK, Lee EB, Park CW, Park JS, **Han D**, Jun JK. Proteomic biomarkers in mid-trimester amniotic fluid associated with adverse pregnancy outcomes in patients with systemic lupus erythematosus. *PLoS One*. 2020 Jul 17;15(7):e0235838. doi: 10.1371/journal.pone.0235838. PMID: 32678854; PMCID: PMC7367458. (corresponding author)
- Shin D, Park J, **Han D**, Moon JH, Ryu HS, Kim Y. Identification of TUBB2A by quantitative proteomic analysis as a novel biomarker for the prediction of distant metastatic breast cancer. *Clin Proteomics*. 2020 May 24;17:16. doi: 10.1186/s12014-020-09280-z. PMID: 32489334; PMCID: PMC7247212. (co-author)
- Lee TY, Lee J, Lee HJ, Lee Y, Rhee SJ, Park DY, Paek MJ, Kim EY, Kim E, Roh S, Jung HY, Kim M, Kim SH, **Han D**, Ahn YM, Ha K, Kwon JS. Study Protocol for a Prospective Longitudinal Cohort Study to Identify Proteomic Predictors of Pluripotent Risk for Mental Illness: The Seoul Pluripotent Risk for Mental Illness Study. *Front Psychiatry*. 2020 Apr 21;11:340. doi: 10.3389/fpsy.2020.00340. PMID: 32372992; PMCID: PMC7186772. (co-author)
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- Kim DK, Han D, Park J, Choi H, Park JC, Cha MY, Woo J, Byun MS, Lee DY, Kim Y, Mook-Jung I. Deep proteome profiling of the hippocampus in the 5XFAD mouse model reveals biological process alterations and a novel biomarker of Alzheimer's disease. *Exp Mol Med*. 2019 Nov 15;51(11):1-17. doi: 10.1038/s12276-019-0326-z. PMID: 31727875; PMCID: PMC6856180. (first author)
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- Chang S, Kim YH, Kim YJ, Kim YW, Moon S, Lee YY, Jung JS, Kim Y, Jung HE, Kim TJ, Cheong TC, Moon HJ, Cho JA, Kim HR, Han D, Na Y, Seok SH, Cho NH, Lee HC, Nam EH, Cho H, Choi M, Minato N, Seong SY. Taurodeoxycholate Increases the Number of Myeloid-Derived Suppressor Cells That Ameliorate Sepsis in Mice. *Front Immunol*. 2018 Sep 18;9:1984. doi: 10.3389/fimmu.2018.01984. PMID: 30279688; PMCID: PMC6153344. (co-author)
- Lee H, Kim K, Woo J, Park J, Kim H, Lee KE, Kim H, Kim Y, Moon KC, Kim JY, Park IA, Shim BB, Moon JH, Han D, Ryu HS. Quantitative Proteomic Analysis Identifies AHNAK (Neuroblast Differentiation-associated Protein AHNAK) as a Novel Candidate Biomarker for Bladder Urothelial Carcinoma Diagnosis by Liquid-based Cytology. *Mol Cell Proteomics*. 2018 Sep;17(9):1788-1802. doi: 10.1074/mcp.RA118.000562. Epub 2018 Jun 27. PMID: 29950347; PMCID: PMC6126387. (corresponding author)
- Do M, Han D, Wang JI, Kim H, Kwon W, Han Y, Jang JY, Kim Y. Quantitative proteomic analysis of pancreatic cyst fluid proteins associated with malignancy in intraductal papillary mucinous neoplasms. *Clin Proteomics*. 2018 Apr 18;15:17. doi: 10.1186/s12014-018-9193-1. PMID: 29713252; PMCID: PMC5907296. (first author)
- Jin J, Son M, Kim H, Kim H, Kong SH, Kim HK, Kim Y, Han D. Comparative proteomic analysis of human malignant ascitic fluids for the development of gastric cancer biomarkers. *Clin Biochem*. 2018 Jun;56:55-61. doi: 10.1016/j.clinbiochem.2018.04.003. Epub 2018 Apr 11. PMID: 29654727.

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Jin MS, Lee H, Woo J, Choi S, Do MS, Kim K, Song MJ, Kim Y, Park IA, **Han D**, Ryu HS. Integrated Multi-Omic Analyses Support Distinguishing Secretory Carcinoma of the Breast from Basal-Like Triple-Negative Breast Cancer. *Proteomics Clin Appl*. 2018 Sep;12(5):e1700125. doi: 10.1002/prca.201700125. Epub 2018 Mar 30. PMID: 29476606. (corresponding author)

Kim DK, Park J, **Han D**, Yang J, Kim A, Woo J, Kim Y, Mook-Jung I. Molecular and functional signatures in a novel Alzheimer's disease mouse model assessed by quantitative proteomics. *Mol Neurodegener*. 2018 Jan 16;13(1):2. doi: 10.1186/s13024-017-0234-4. PMID: 29338754; PMCID: PMC5771139. (first author)