Je-Hyun Baek, Ph.D.

Position : Director Department : R&D Center for Clinical Mass Spectrometry Affiliation : Seegene Medical Foundation Office : 320 Cheonho-daero, Seongdong-gu, Seoul, Korea E-mail : bacgyber@gmail.com Homepage : https://www.linkedin.com/in/je-hyun-baek-190a2642/



Education

yyyy.mm-yyyy.mm	degree	affiliation
2001.09-2007.08	Ph.D.	Korea University (Life Science & Biotechnology)
1998.03-2000.02	Master	Ajou University (Biochemistry)
1991.03-1998.02	Bachelor	Ajou University (Chemistry)

Professional Experience

yyyy.mm-yyyy.mm	position	affiliation
2018.06-present	Director	Seegene Medical Foundation, R&D Center for
		Clinical Mass Spectrometry
2018.03-2018.04	Research Professor	Kyung Hee University
2013.04-2018.01	Director/Head	Diatech Korea, R&D Division
2012.03-2013.03	Research Professor	Seoul National University, Molecular Medicine
		and Biopharmaceutical Sciences (WCU) &
		Medical Research Center
2010.02-2012.01	Postdoc	Department of Neurobiology, Physiology and
		Behavior, UC Davis (USA)
2007.09-2010.01	Senior. Res. Scientist	KIST, Functional Proteomic Center
2001.09-2007.08	Research Scientist	KIST, Functional Proteomic Center
2004.06-2004.09	Visiting Scholar	Institute for Systems Biology at Seattle (USA),
2000.11-2001.08	Research Associate	KIST, Protein Strain Research Center

Academic Society

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yyyy.mm-yyyy.mm	position	society
2020.10 -present	Committee Member	Korea Human Proteome Organization (KHUPO)
2014.09 -present	Committee Member	Korea Association of Research for Pharmaceutical
		Analysis (Korea Drug Research Association)
2014.01-present	Chair	Mass Spectrometry Generation (MSG)

Publications (Recent 5 years)

- Nutrient-specific proteomic analysis of the mucin degrading bacterium Akkermansia muciniphila. Ji-Young Lee, Hyeon-Su Jin, Kyoung Su Kim, <u>Je-Hyun Baek</u>, Bong-Soo Kim, Dong-Woo Lee *Proteomics*. (2022) Feb;22(3): e2100125.
- (2) Optimization of a lysis method to isolate periplasmic proteins from Gram-negative bacteria for clinical mass spectrometry. Dong Huey Cheon, Saeyoung Lee, Won Suk Yang, Seohyun

Hwang, Heejung Jang, Min Jin Kim, Je-Hyun Baek, *Proteomics Clin Appl.* (2021) Nov;15(6): e2100044.

- (3) Record of North American boreal forest fires in northwest Greenland snow. Jung-Ho Kang, Heejin Hwang, Sang-Jin Lee, Sung-Deuk Choi, Jin-Soo Kim, Sangbum Hong, Soon Do Hur, Je-Hyun Baek, *Chemosphere*. (2021) Mar 6;276:130187. (1)
- (4) Measuring fucosylated alpha-fetoprotein in hepatocellular carcinoma: A comparison of µTAS and parallel reaction monitoring. Kwang Hoe Kim, Sang Yoon Lee, <u>Je-Hyun Baek</u>, Soo-Youn Lee, Jin Young Kim, & Jong Shin Yoo, *Proteomics Clin Appl*. (2021) Mar 25:e2000096.
- (5) SWATH-MS analysis of cerebrospinal fluid to generate a robust battery of biomarkers for Alzheimer's disease., Sun Ah Park, Jin Myung Jung, Jun Sung Park, Jeong Ho Lee, Bumhee Park, Hyung Jun Kim, Jeong-Ho Park, Won Seok Chae, Jee Hyang Jeong, Seong Hye Choi, and Je-Hyun Baek, *Scientific Report*. (2020) May 4;10(1):7423.
- (6) Direct detection of intact Klebsiella pneumoniae carbapenemases produced by Enterobacterales using MALDI-TOF MS., Eun-Jeong Yoon1, Eun Hee Lee, Dong Hwi Hwang, Hyukmin Lee, <u>Je-Hyun Baek</u>* and Seok Hoon Jeong*., *J Antimicrob Chemother*. (2020) May 1;75(5):1174-1181.
- (7) Subunits of the vacuolar H+-ATPase complex, Vma4 and Vma10, are essential for virulence and represent potential drug targets in Candida albicans. Kim SW, Park YK, Joo YJ, Chun YJ, Hwang JY, <u>Je-Hyun Baek</u>, Kim *J. Fungal Biol*. (2019) Oct;123(10):709-722.
- (8) Quantitative proteomic analysis of aqueous humor from patients with drusen and reticular pseudodrusen in age-related macular degeneration, <u>Je-Hyun Baek</u>, Daehan Lim, Kyu Hyung Park, Jae-Byoung Chae, Hyoik Jang, Jonghyun Lee, Hyewon Chung, *BMC Ophthalmology* (2018) 18:289
- (9) Identification of Matrix Metalloproteinase-1-Suppressive Peptides in Feather Keratin Hydrolysate. Hyeon-Su Jin, Kyeongseop Song, <u>Je-Hyun Baek</u>, Jae-Eun Lee, Da Jeong Kim, Gae-Won Nam, Nam Joo Kang, and Dong-Woo Lee. *J Agric Food Chem*. (2018) 66 (48), p12719-12729
- (10) Ssb2 is a novel factor in regulating synthesis and degradation of Gcn4 in Saccharomyces cerevisiae., Youjin Jung, Ki Moon Seong, <u>Je-Hyun Baek</u> and Joon Kim*, *Mol Microbiol*. (2018) Dec;110(5):728-740
- (11) S-1-Induced Lacrimal Drainage Obstruction and its Association with Ingredients/Metabolites of S-1 in Tears and Plasma, Namju Kim, Jin Won Kim, <u>Je-Hyun Baek</u>, Jin-Soo Kim, Ho-Kyung Choung, Tae-Yong Kim, Kyung-Hun Lee, Yung-Jue Bang, Sang In Khwarg, Sang-Hoon Ahn, Do Joong Park, Hyung-Ho Kim, Jae-Yong Chung, Soyeon Ahn, Keun-Wook Lee. *Cancer Res Treat.* (2018) Jan;50(1):30-39.