

Je-Hyun Baek

Curriculum Vitae



Research Director
 R&D Center for Clinical Mass Spectrometry @ Seegene Medical Foundation, Korea

Educational Background & Professional Experience

- 2018.06–Present Research Director, R&D Center for Clinical Mass Spectrometry @ Seegene Medical Foundation
- 2013.04–2018.01 Director/Head, R&D Division @ Diatech Korea
- 2012.03–2013.03 Research Professor, Medical Research Center @ Seoul National University
- 2010.02–2012.01 Postdoc, Department of Neurobiology, Physiology and Behavior @ UC Davis (USA)

Research Interests

Clinical Proteomics, MS-based Diagnostics, Proteoform Biomarker Discovery

Publications

1. Kim H, Oh W, Park J, Lee S, Yang WS, Kim SS, Cheong JY, Baek JH. GAFAD: An LC-MS/MS-Based Model for Early Hepatocellular Carcinoma Detection Beyond GALAD’s Limitation. Clin Mol Hepatol. 2026.
2. Kim H, Park J, Suh H, Lee S, Park Y, Yang WS, Minn D, Kim SS, Cheong JY, Baek JH. Development and Validation of a Lectin-independent Liquid Chromatography-Tandem Mass Spectrometry Method for Serum Glycosylated Alpha-fetoprotein Analysis and Comparison with a Liquid-phase Binding Assay. Ann Lab Med. 2026.
3. Cheon DH, Hwang S, Choi YK, Lee S, Yang WS, Kim BK, Kim MJ, Lee SH, Baek JH. Direct Identification of IMP and VIM Metallo-β-Lactamases in Gram-Negative Bacteria Using A-MALDI. Rapid Commun Mass Spectrom. 2025.
4. Cheon DH, Jang H, Choi YK, Oh WS, Hwang S, Park J-R, Kim H, Park Y, Lee S, Yang WS, Kim MJ, Lee SH, Baek J-H. Clinical evaluation of advanced MALDI-TOF MS for carbapenemase subtyping in Gram-negative isolates. J Clin Microbiol. 2025.
5. Kim H, Cheon DH, Yang WS, Baek JH. Simultaneous Quantification of Apolipoprotein C-III O-Glycoforms by Protein-MRM. J Proteome Res. 2023.

